

수산물 중 항생제 69종**Cadenza CD-C18 UP or HT 2.0 x 150 mm, 3 μm**

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컬럼	Cadenza CD C18-UP or HT 2.0 x 150 mm, 3 μm		
이동상	A - DW / Formic acid = 100 / 0.1		
	B - 2mM Ammonium formate + 0.1 % Formic acid in Acetonitrile		
주입량	5 μL		
오븐온도	40 °C		
Gradient			
Time (min)	Flow (mL/min)	B (%)	A (%)
Initial	0.4	10	90
1.0	0.4	10	90
6.0	0.4	40	60
10.0	0.4	95	5
15.0	0.4	95	5
15.1	0.4	10	90
20	0.4	10	90

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물질 별 MRM Transition

Chromatogram No.	Compound	Q1	Q3	Colision energy	Cone voltage	polarity	농도 mg/kg
1	Trichlorfon	259	109	18	30	+	0.02
2	Sulfathiazole	256	92	24	30	+	0.02
3	Sulfamethoxazole	254	156	14	30	+	0.02
4	Sulfadiazine	251	156	14	30	+	0.02
5	Florfenicol amine	248	230	10	30	+	0.10
6	Mebendazole amine	238	105	25	30	+	0.02
7	Ethopabate	238	206	10	30	+	0.02
8	Nalidixic acid	233	215	12	20	+	0.03
9	Ethoxyquin	218	148	20	50	+	0.02
10	Thiabendazole (5-hydroxy)	218	147	25	40	+	0.02
11	Sulfaguanidine	215	156	5	30	+	0.02
12	Fenobucarb	208	152	5	30	+	0.02
13	Levamisole	205	123	25	30	+	0.02
14	Thiabendazole	202	175	25	30	+	0.02
15	Ethopabate (m-phenetidine)	137	110	10	20	+	0.02
16	Sulfaquinoxaline	302	156	17	30	+	0.02
17	Mebendazole (5-hydroxy)	298	266	20	30	+	0.02
18	Mebendazole	296	264	20	30	+	0.02
19	Trimethoprim	291	230	18	25	+	0.05
20	Sulfachlorpyridazine	285	156	14	30	+	0.02
21	Sulfachlorpyrazine	285	156	14	30	+	0.02
22	Sulfamonomethoxine	281	156	16	30	+	0.02
23	Sulfamethoxypridazine	281	156	14	30	+	0.02
24	Sulfamethazine	279	186	16	30	+	0.02
25	Ormethoprim	275	123	25	30	+	0.10

Chromatogram No.	Compound	Q1	Q3	Colision energy	Cone voltage	polarity	농도 mg/kg
26	Sulfisoxazole	268	113	16	30	+	0.02
27	Sulfamerazine	265	156	16	30	+	0.02
28	Flumequin	262	99	54	24	+	0.50
29	Oxolinic acid	262	160	34	30	+	0.10
30	Diaveridine	261	123	25	30	+	0.02
31	Marbofloxacin	363	72	20	30	+	0.02
32	Ofloxacin	362	261	28	30	+	0.02
33	Enrofloxacin	360	245	23	40	+	0.05
34	Danofloxacin	358	314	15	20	+	0.02
35	Meloxicam	352	115	20	30	+	0.02
36	Ampicillin	350	106	17	30	+	0.05
37	Cefalexin	348	158	10	30	+	0.20
38	Benzylpenicillin (Penicillin G)	335	160	15	30	+	0.02
39	Pefloxacin	334	233	25	30	+	0.02
40	Ciprofloxacin	332	245	22	40	+	0.05
41	Norfloxacin	320	276	15	40	+	0.02
42	Sulfaphenazole	315	158	28	30	+	0.02
43	Praziquantel	313	203	14	30	+	0.02
44	Sulfadimethoxine	311	92	28	30	+	0.02
45	Sulfadoxine	311	156	16	30	+	0.02
46	Tiamulin	494	119	40	66	+	0.10
47	Chlortetracycline	479	154	24	30	+	0.05
48	Oxytetracycline	461	426	28	30	+	0.05
49	Fumagillin	459	131	25	40	+	0.02
50	Minocycline	458	352	28	30	+	0.02

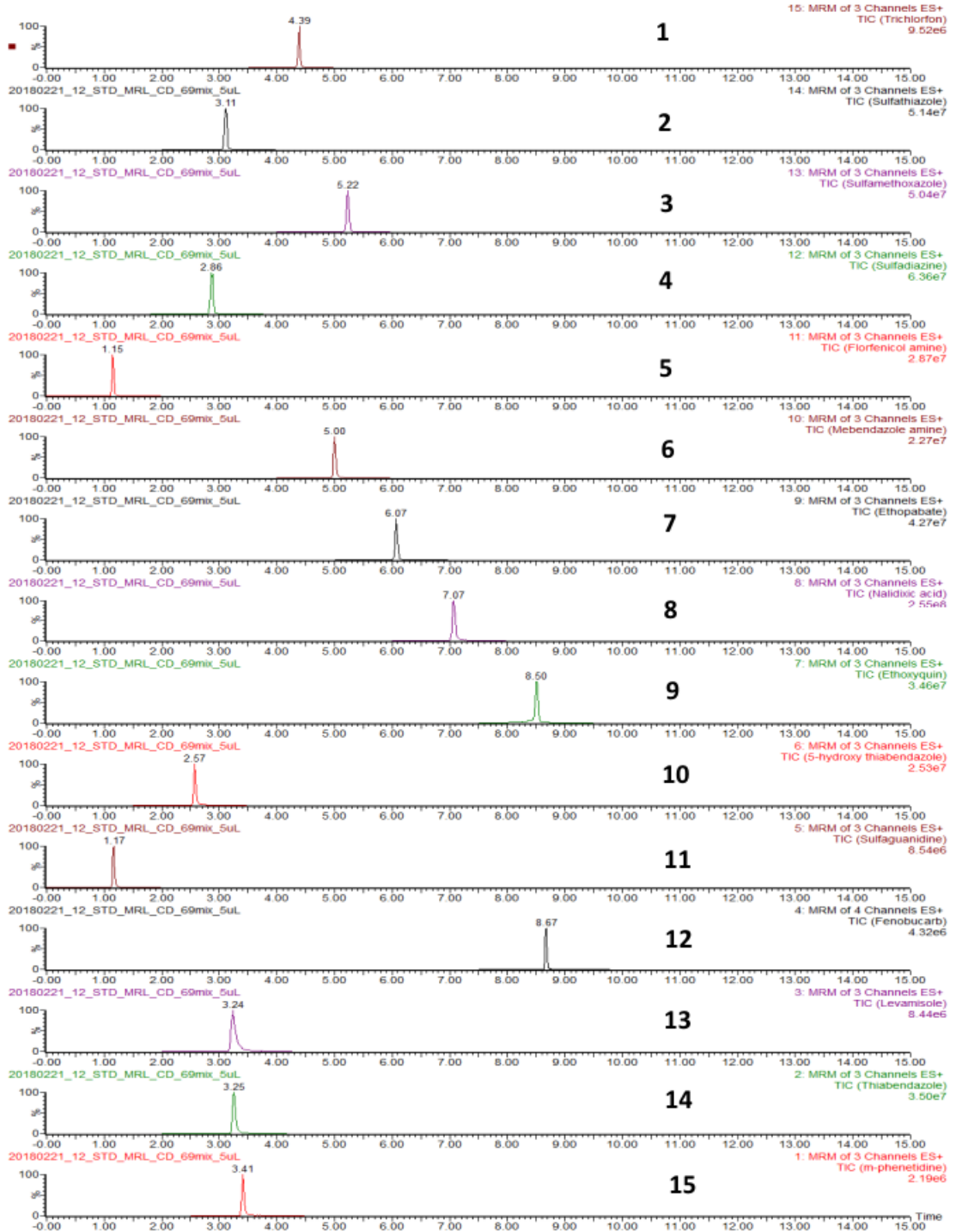
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물질 별 MRM Transition

Chromatogram No.	Compound	Q1	Q3	Colision energy	Cone voltage	polarity	농도 mg/kg
51	Tetracycline	445	154	24	15	+	0.05
52	Doxycycline	445	428	16	30	+	0.05
53	Cloxacillin	436	321	15	30	+	0.02
54	Ceftiofur (Desfuroyl)	430	126	25	32	+	0.06
55	Clindamycin	426	126	25	30	+	0.10
56	Spiramycin	422	174	18	30	+	0.20
57	Lincomycin	407	126	30	60	+	0.10
58	Difloxacin	400	300	25	20	+	0.30
59	Amoxicillin	366	349	5	30	+	0.05
60	Cefadroxil	364	114	15	20	+	0.02
61	Dehydrocholic acid	401	215	30	20	-	0.02
62	Florfenicol	356	185	18	30	-	0.10
63	Bithionol	355	161	28	25	-	0.02
64	Thiamphenicol	354	290	12	30	-	0.05
65	Chloramphenicol	321	152	18	40	-	0.02
66	Tylosin	917	174	40	30	+	0.02
67	Tilmicosin	870	174	45	30	+	0.02
68	Roxythromycin	838	116	40	30	+	0.02
69	Josamycin	829	109	45	70	+	0.05
70	Rifaximin	787	95	45	30	+	0.02
71	Kitasamycin	772	109	38	30	+	0.20
72	Erythromycin	734	158	25	55	+	0.20
73	Oleandomycin	688	158	25	30	+	0.02
74	Tulathromycin	807	158	28	24	+	0.02
75	Ceftiofur	524	241	16	30	+	0.06

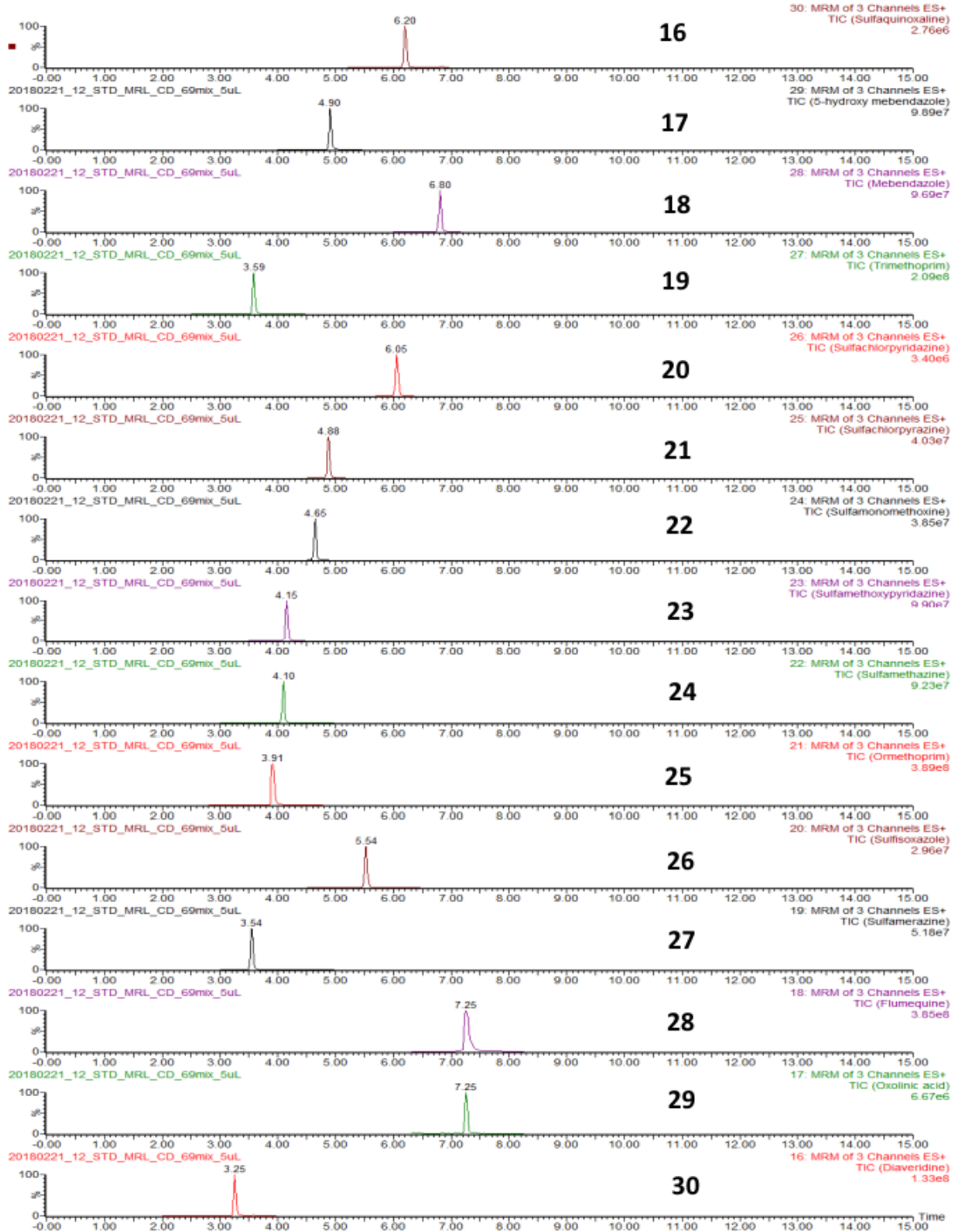
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물질 별 Chromatogram



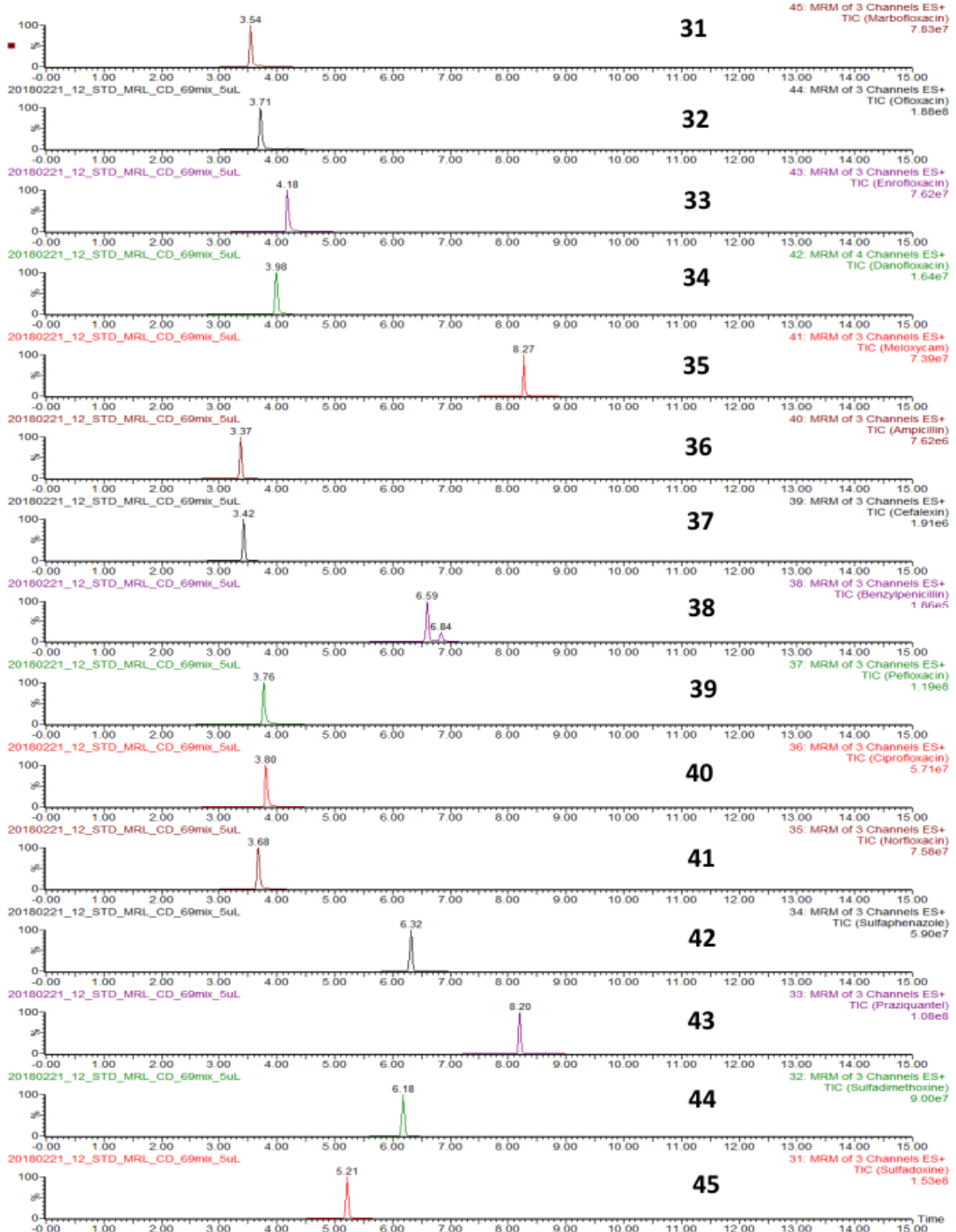
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물질 별 Chromatogram



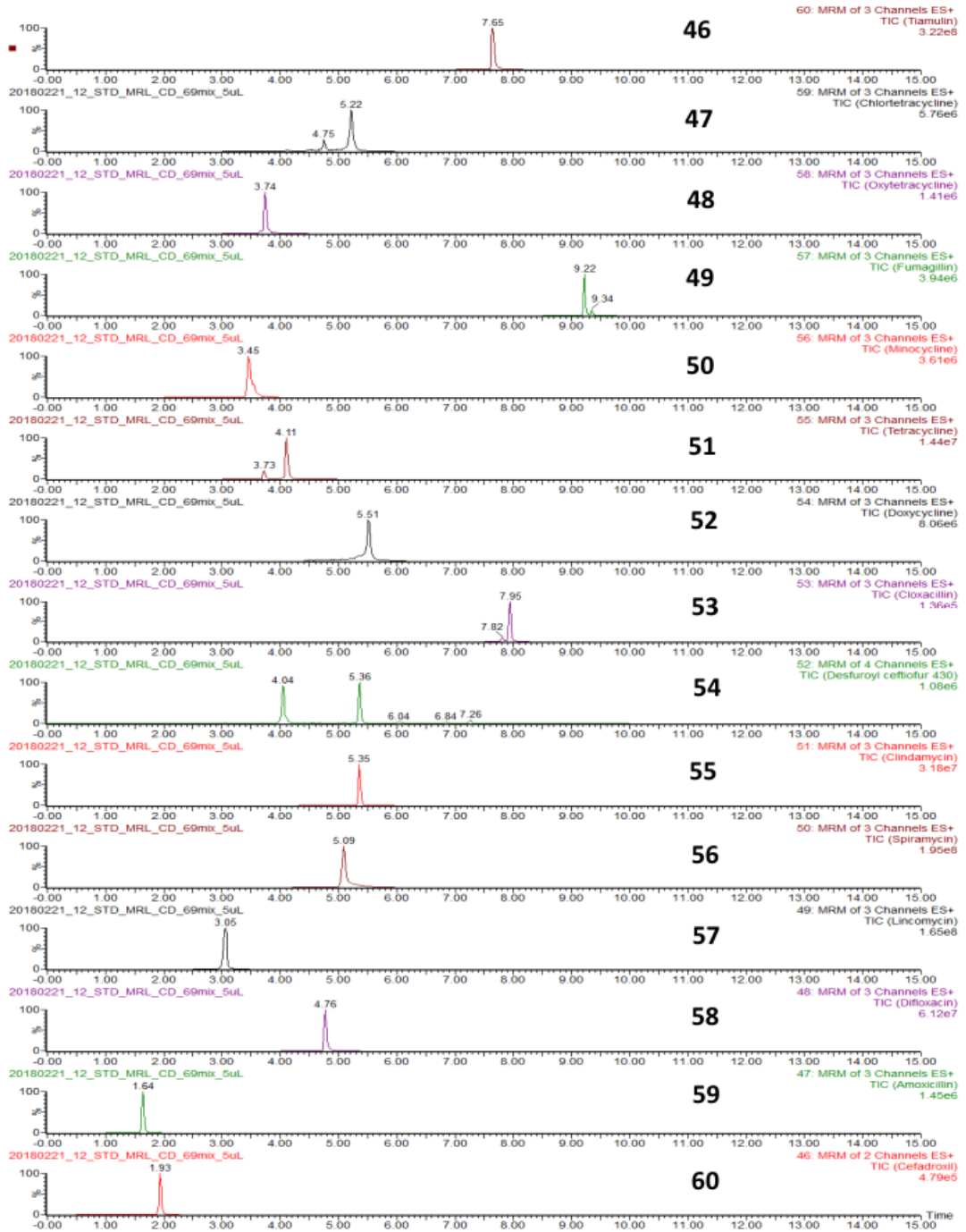
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물질 별 Chromatogram



수산물 중 항생제 69종

물질 별 Chromatogram



수산물 중 항생제 69종

물질 별 Chromatogram

