

Data File : VD059855.D
Acq On : 21 Aug 2018 14:57
Operator : JC/SY
Sample : J4511-10MS
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

Quant Time: Aug 22 01:10:16 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.60	168	977488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.65	114	1387627	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	1010623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.89	152	427989	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.98	65	378882	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
35) Dibromofluoromethane	5.51	113	520866	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
50) Toluene-d8	8.67	98	1348098	48.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.42%	
62) 4-Bromofluorobenzene	11.91	95	479761	45.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.34%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.32	85	439710	52.231	ug/l	100
3) Chloromethane	1.46	50	335845	47.089	ug/l	100
4) Vinyl Chloride	1.53	62	286781	50.174	ug/l	98
5) Bromomethane	1.77	94	59553	79.286	ug/l	90
6) Chloroethane	1.85	64	92399	71.451	ug/l	97
7) Trichlorofluoromethane	2.06	101	335104	58.236	ug/l	98
8) Diethyl Ether	2.32	74	66655	51.822	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.52	101	191646	52.368	ug/l	99
10) Methyl Iodide	2.66	142	213504	50.600	ug/l	97
11) Tert butyl alcohol	3.21	59	70418	243.503	ug/l #	91
12) 1,1-Dichloroethene	2.51	96	150606	59.167	ug/l	90
13) Acrolein	2.44	56	39135	132.642	ug/l	99
14) Allyl chloride	2.89	41	374989	48.999	ug/l	98
15) Acrylonitrile	3.31	53	280008	209.194	ug/l	99
16) Acetone	2.57	43	528355	402.954	ug/l	96
17) Carbon Disulfide	2.72	76	491271	50.786	ug/l	99
18) Methyl Acetate	2.90	43	170394	64.931	ug/l	99
19) Methyl tert-butyl Ether	3.36	73	807531	47.741	ug/l	99
20) Methylene Chloride	3.03	84	167318	51.446	ug/l	98
21) trans-1,2-Dichloroethene	3.35	96	379058	46.884	ug/l	95
22) Diisopropyl ether	4.02	45	2062080	52.748	ug/l	95
23) Vinyl Acetate	3.97	43	4446043	211.715	ug/l	100
24) 1,1-Dichloroethane	3.92	63	888847	51.704	ug/l	99
25) 2-Butanone	4.79	43	1129348	284.950	ug/l	100
26) 2,2-Dichloropropane	4.75	77	678199	50.280	ug/l	99
27) cis-1,2-Dichloroethene	4.76	96	524963	51.307	ug/l	98
28) Bromochloromethane	5.10	49	415638	47.713	ug/l	99
29) Tetrahydrofuran	5.14	42	471738	235.076	ug/l	100
30) Chloroform	5.28	83	884848	52.155	ug/l	99
31) Cyclohexane	5.55	56	669307	46.670	ug/l	98
32) 1,1,1-Trichloroethane	5.47	97	732228	51.217	ug/l	99
36) 1,1-Dichloropropene	5.70	75	592832	50.376	ug/l	99
37) Ethyl Acetate	4.88	43	392162	44.954	ug/l	100
38) Carbon Tetrachloride	5.68	117	586355	49.922	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.25	83	551216	43.791	ug/l	95
40) Benzene	5.97	78	1660937	54.476	ug/l	100
41) Methacrylonitrile	5.08	41	197193	44.124	ug/l	97
42) 1,2-Dichloroethane	6.09	62	491970	49.553	ug/l	99
43) Isopropyl Acetate	7.58	43	515025	42.684	ug/l	95
44) Trichloroethene	6.94	130	466364	51.430	ug/l	96
45) 1,2-Dichloropropane	7.31	63	468296	52.306	ug/l	99
46) Dibromomethane	7.42	93	273813	49.120	ug/l	93
47) Bromodichloromethane	7.70	83	618008	50.215	ug/l	98
48) Methyl methacrylate	7.46	41	320370	48.141	ug/l	99
49) 1,4-Dioxane	7.45	88	57977	1029.482	ug/l	92
51) 4-Methyl-2-Pentanone	8.57	43	2168649	268.835	ug/l	99
52) Toluene	8.76	92	951907	49.375	ug/l	99
53) t-1,3-Dichloropropene	9.15	75	538835	48.063	ug/l	98
54) cis-1,3-Dichloropropene	8.32	75	669394	49.857	ug/l	99
55) 1,1,2-Trichloroethane	9.42	97	333223	47.879	ug/l	99
56) Ethyl methacrylate	9.27	69	380684	47.436	ug/l	97
57) 1,3-Dichloropropane	9.63	76	505494	49.677	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.15	63	960665	214.120	ug/l	97
59) 2-Hexanone	9.75	43	1538803	258.072	ug/l	99
60) Dibromochloromethane	9.92	129	425164	47.442	ug/l	98
61) 1,2-Dibromoethane	10.06	107	346724	46.623	ug/l	99
64) Tetrachloroethene	9.48	164	393359	53.160	ug/l	99
65) Chlorobenzene	10.69	112	1037451	53.226	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.82	131	375546	56.453	ug/l	98
67) Ethyl Benzene	10.83	91	1676808	53.312	ug/l	98
68) m/p-Xylenes	10.99	106	1221990	105.064	ug/l	99
69) o-Xylene	11.38	106	615924	54.535	ug/l	98
70) Styrene	11.41	104	1016629	51.693	ug/l	97
71) Bromoform	11.58	173	303040	50.692	ug/l #	98
73) Isopropylbenzene	11.75	105	1554366	53.292	ug/l	98
74) N-amyl acetate	11.63	43	608114	46.562	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.05	83	375148	54.568	ug/l	100
76) 1,2,3-Trichloropropane	12.09	75	374515	52.893	ug/l	99
77) Bromobenzene	12.02	156	456086	56.258	ug/l	88
78) n-propylbenzene	12.13	91	1882428	51.962	ug/l	97
79) 2-Chlorotoluene	12.20	91	1055442	50.605	ug/l	97
80) 1,3,5-Trimethylbenzene	12.30	105	1122394	53.257	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.82	75	109364	49.409	ug/l	91
82) 4-Chlorotoluene	12.31	91	1116164	54.448	ug/l	93
83) tert-Butylbenzene	12.55	119	1338116	58.159	ug/l	96
84) 1,2,4-Trimethylbenzene	12.60	105	1235328	51.472	ug/l	98
85) sec-Butylbenzene	12.74	105	1524681	49.966	ug/l	97
86) p-Isopropyltoluene	12.87	119	1206239	50.393	ug/l	97
87) 1,3-Dichlorobenzene	12.82	146	734443	53.813	ug/l	100
88) 1,4-Dichlorobenzene	12.91	146	706953	52.259	ug/l	98
89) n-Butylbenzene	13.17	91	1032608	45.587	ug/l	98
90) Hexachloroethane	13.38	117	313464	45.898	ug/l	82
91) 1,2-Dichlorobenzene	13.17	146	568853	56.495	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.75	75	49685	48.550	ug/l	77

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082118\
Quantitation Report (Not Reviewed)

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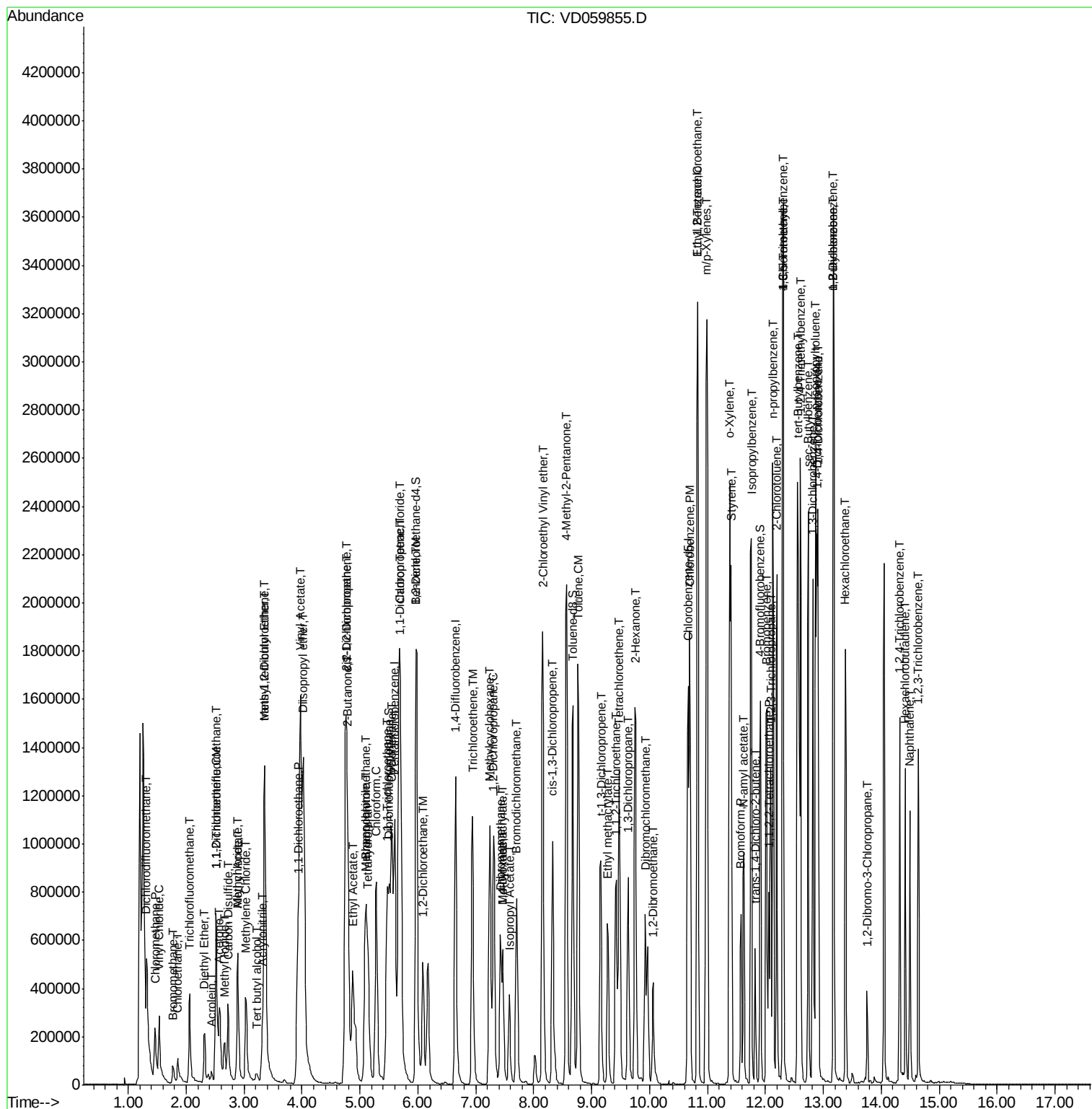
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.32	180	419251	42.786	ug/l	99
94) Hexachlorobutadiene	14.41	225	220036	33.378	ug/l	97
95) Naphthalene	14.49	128	678817	42.405	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	347779	40.499	ug/l	98

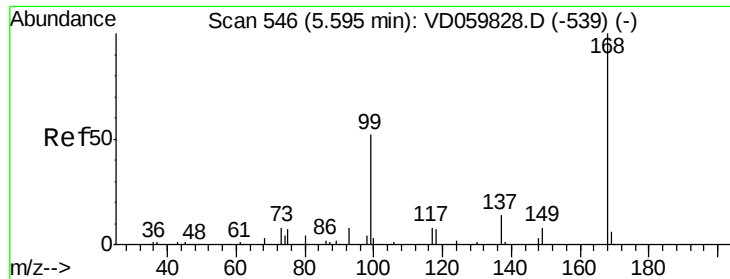
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 547

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

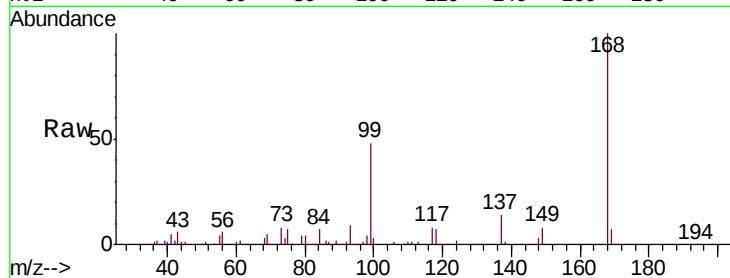
RA-081518-FL-031MS

Tgt Ion:168 Resp: 977488

Ion Ratio Lower Upper

168 100

99 48.0 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.60

400000

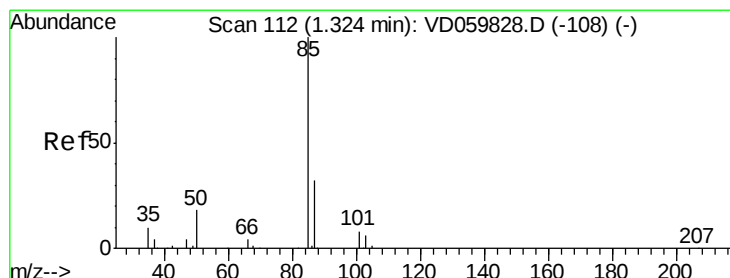
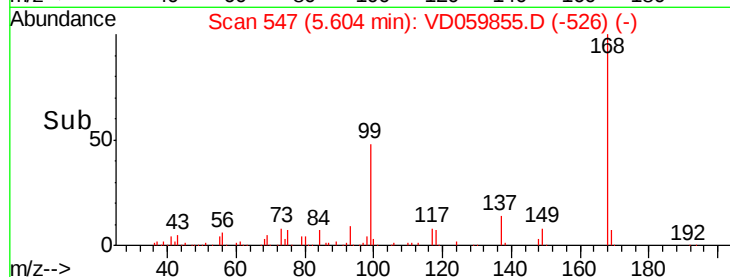
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 52.231 ug/l

RT: 1.32 min Scan# 112

Delta R.T. -0.00 min

Lab File: VD059855.D

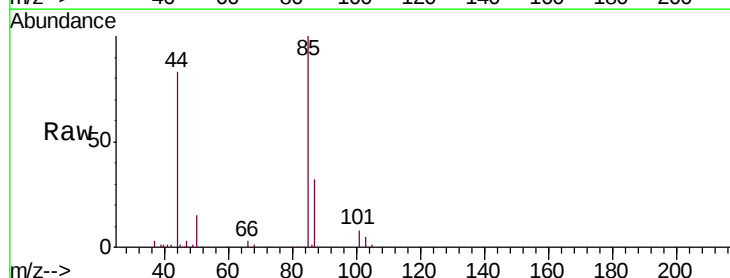
Acq: 21 Aug 2018 14:57

Tgt Ion: 85 Resp: 439710

Ion Ratio Lower Upper

85 100

87 32.0 16.1 48.3



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.32

200000

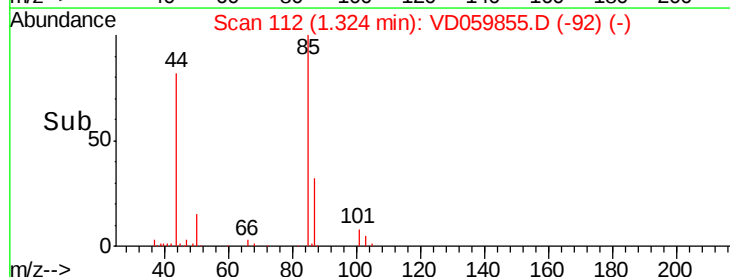
150000

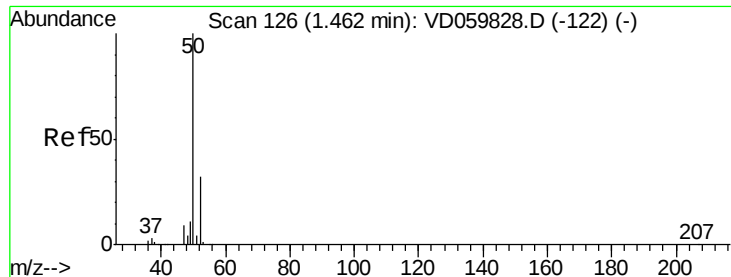
100000

50000

0

Time-->





#3

Chloromethane

Concen: 47.089 ug/l

RT: 1.46 min Scan# 126

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

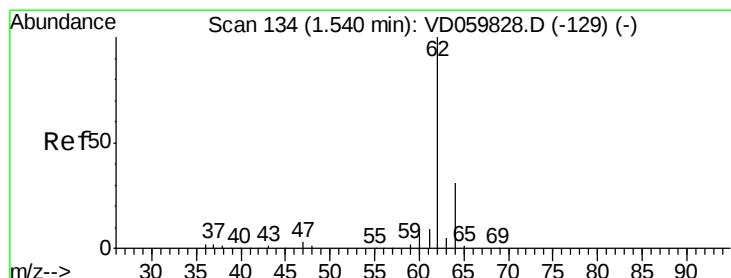
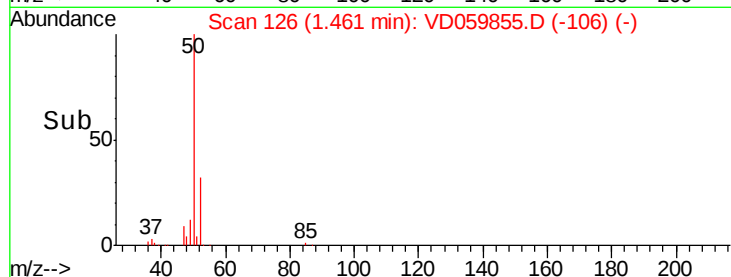
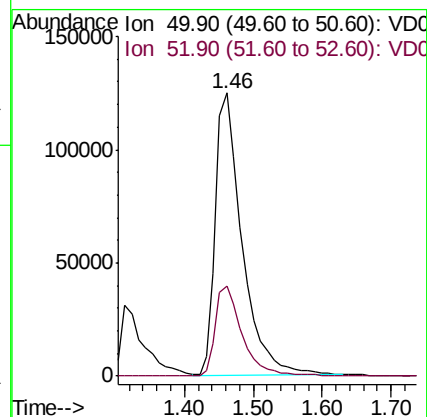
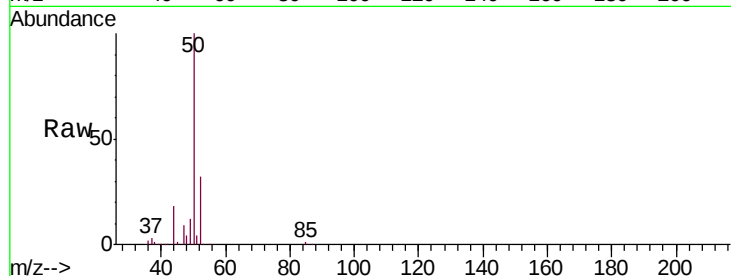
RA-081518-FL-031MS

Tgt Ion: 50 Resp: 335845

Ion Ratio Lower Upper

50 100

52 31.7 25.4 38.2



#4

Vinyl Chloride

Concen: 50.174 ug/l

RT: 1.53 min Scan# 133

Delta R.T. -0.01 min

Lab File: VD059855.D

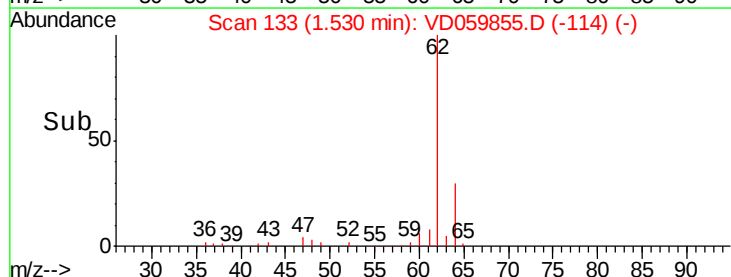
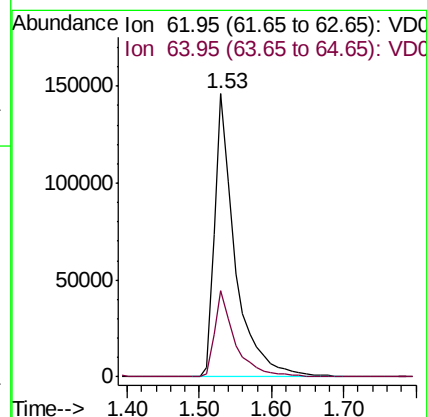
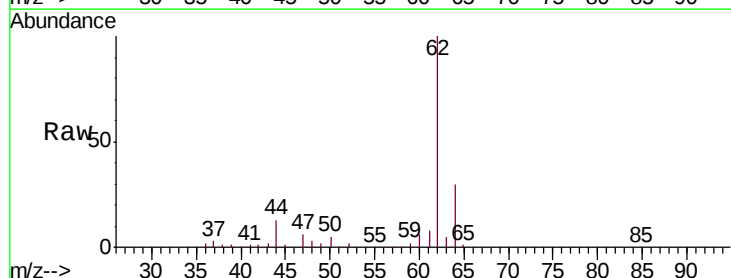
Acq: 21 Aug 2018 14:57

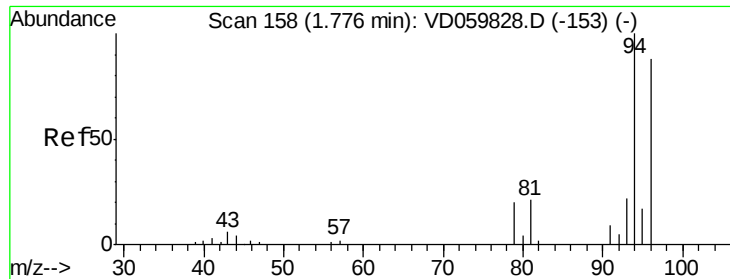
Tgt Ion: 62 Resp: 286781

Ion Ratio Lower Upper

62 100

64 30.4 25.0 37.6





#5

Bromomethane

Concen: 79.286 ug/l

RT: 1.77 min Scan# 157

Delta R.T. -0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

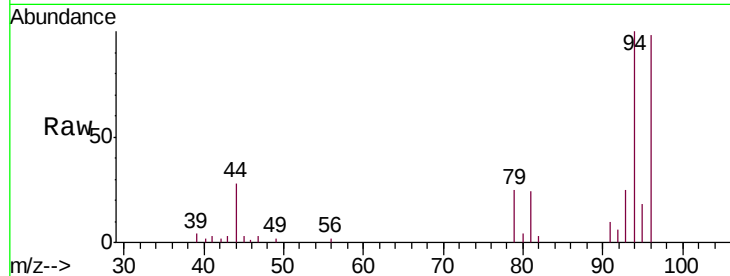
RA-081518-FL-031MS

Tgt Ion: 94 Resp: 59553

Ion Ratio Lower Upper

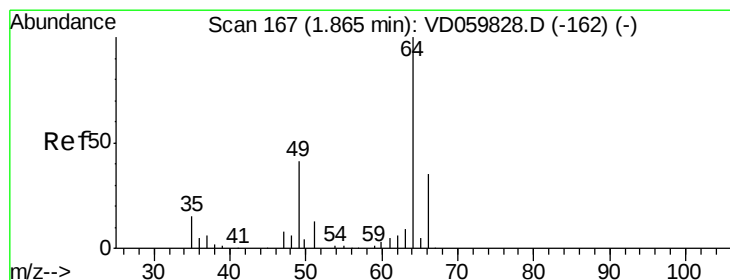
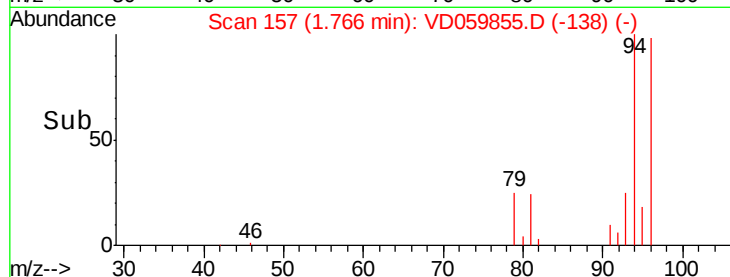
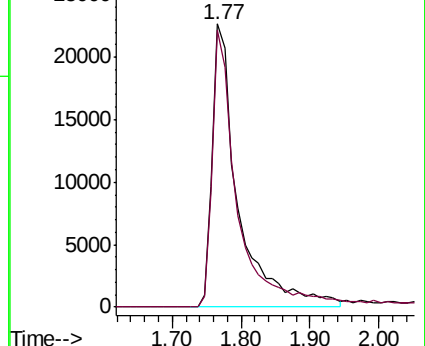
94 100

96 97.7 70.8 106.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 71.451 ug/l

RT: 1.85 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD059855.D

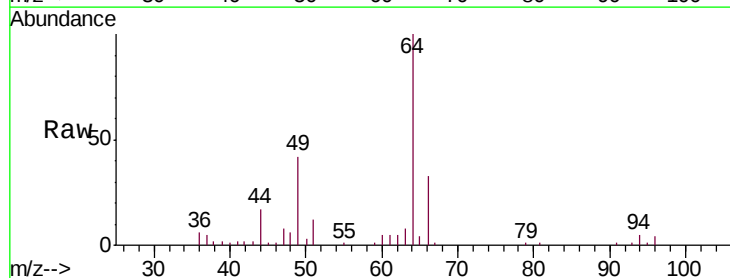
Acq: 21 Aug 2018 14:57

Tgt Ion: 64 Resp: 92399

Ion Ratio Lower Upper

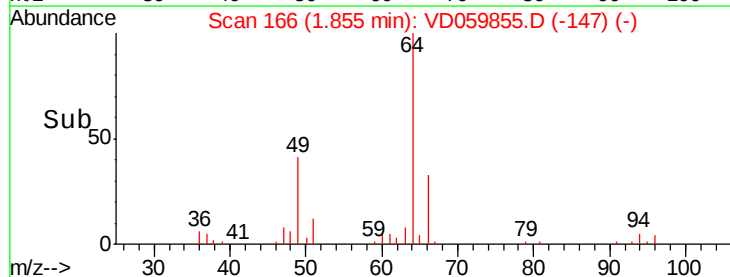
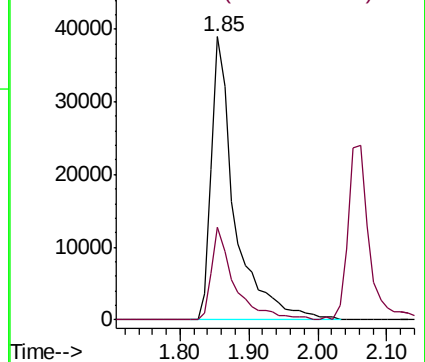
64 100

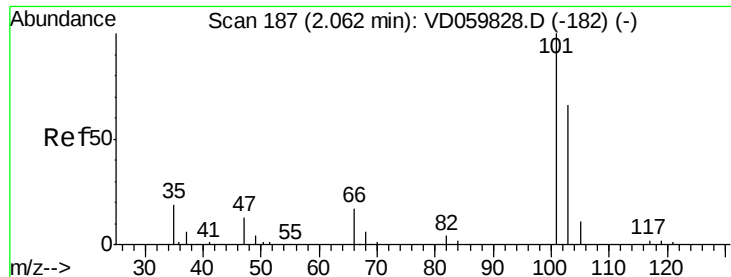
66 32.9 27.9 41.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



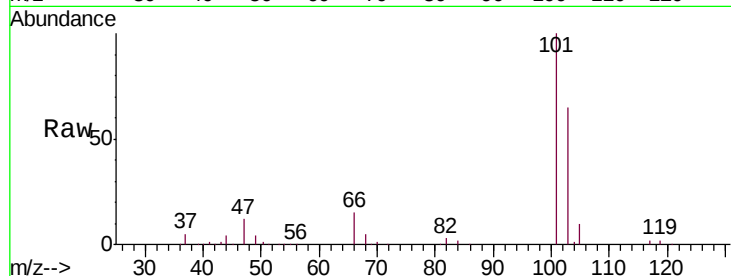


#7

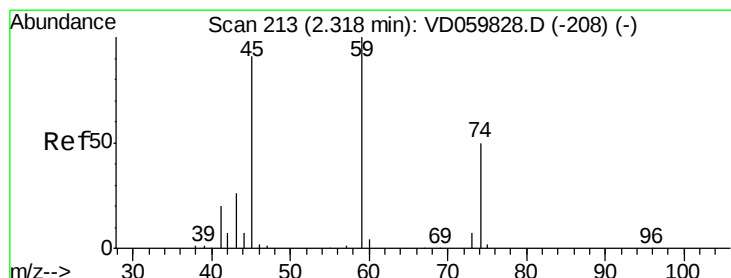
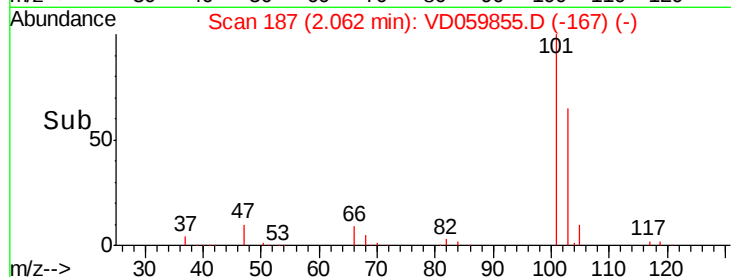
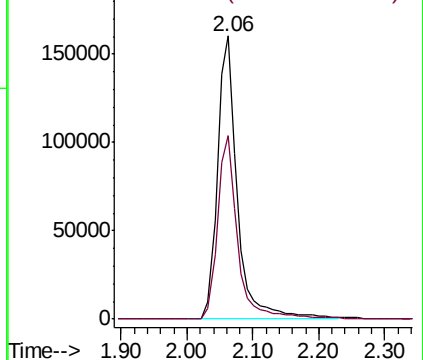
Trichlorofluoromethane
 Concen: 58.236 ug/l
 RT: 2.06 min Scan# 187
 Delta R.T. -0.00 min
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Tgt Ion: 101 Resp: 335104
 Ion Ratio Lower Upper
 101 100
 103 64.6 53.0 79.4



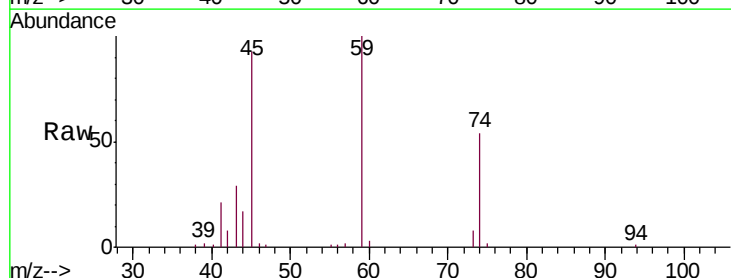
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



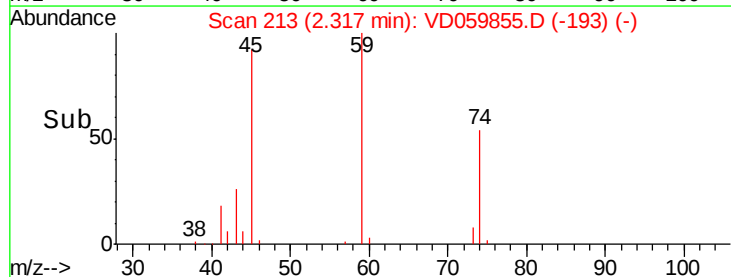
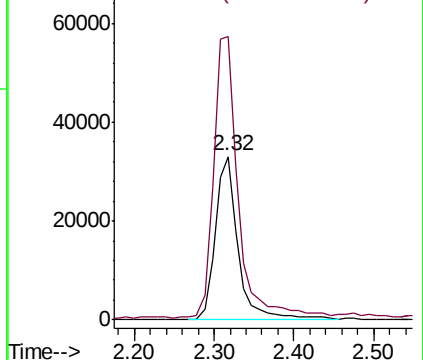
#8

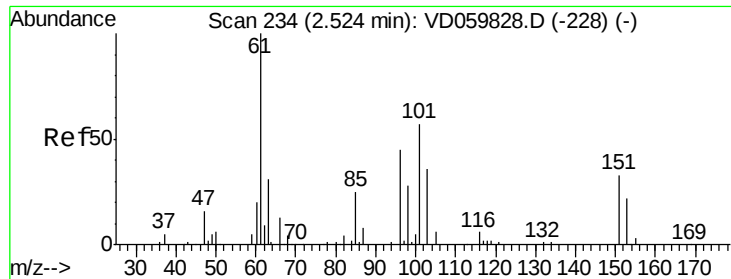
Diethyl Ether
 Concen: 51.822 ug/l
 RT: 2.32 min Scan# 213
 Delta R.T. -0.00 min
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Tgt Ion: 74 Resp: 66655
 Ion Ratio Lower Upper
 74 100
 45 173.3 90.6 271.9



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.368 ug/l

RT: 2.52 min Scan# 234

Delta R.T. -0.00 min

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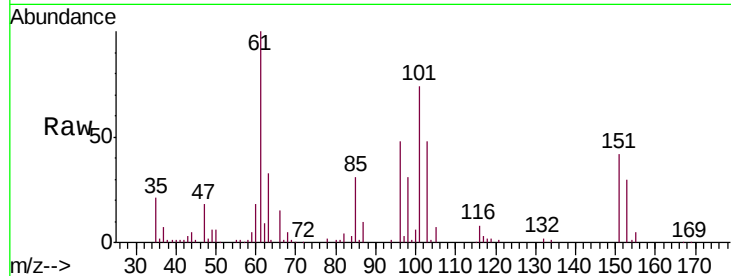
Tgt Ion:101 Resp: 191646

Ion Ratio Lower Upper

101 100

85 42.7 35.7 53.5

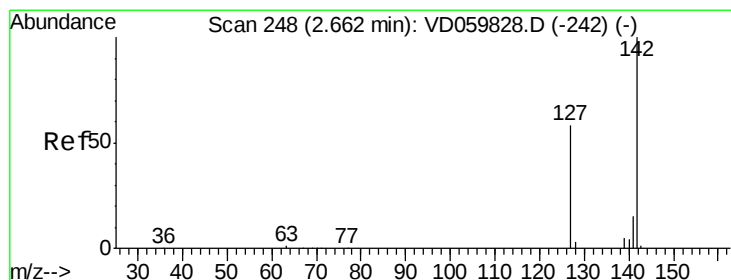
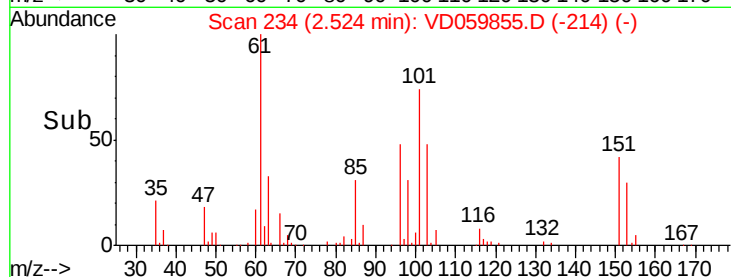
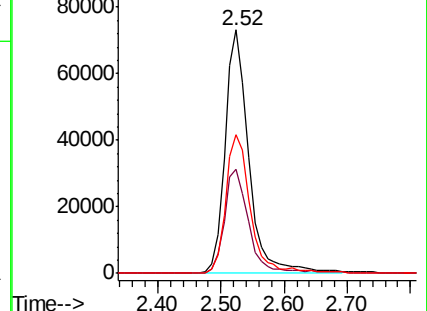
151 57.2 45.8 68.6



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 50.600 ug/l

RT: 2.66 min Scan# 248

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

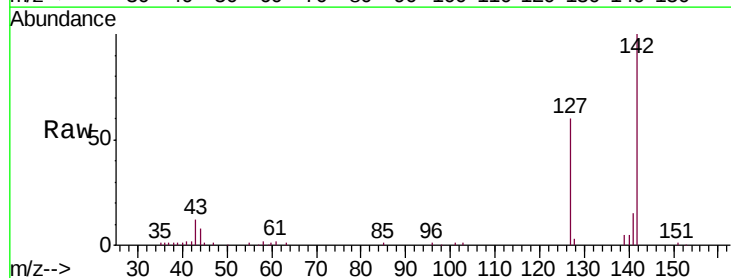
Tgt Ion:142 Resp: 213504

Ion Ratio Lower Upper

142 100

127 60.2 46.6 69.8

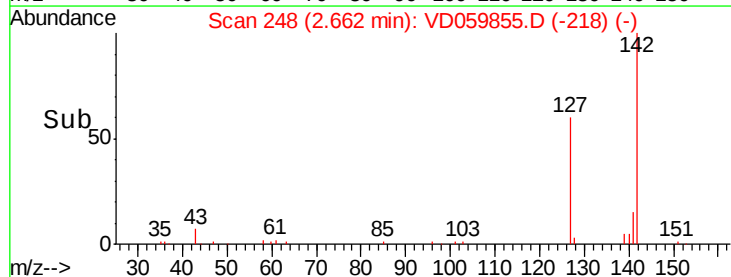
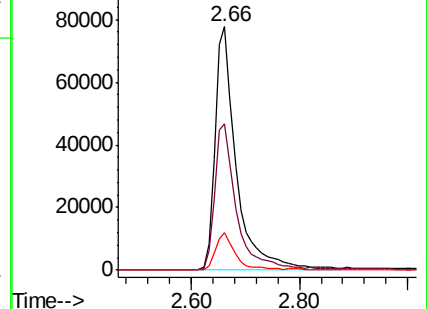
141 15.5 11.7 17.5

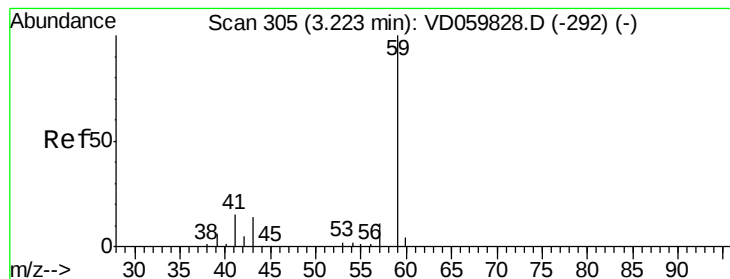


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



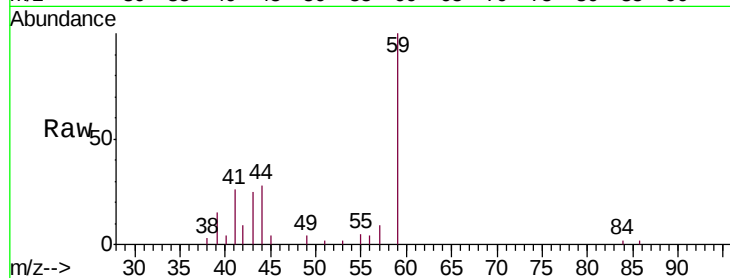


#11

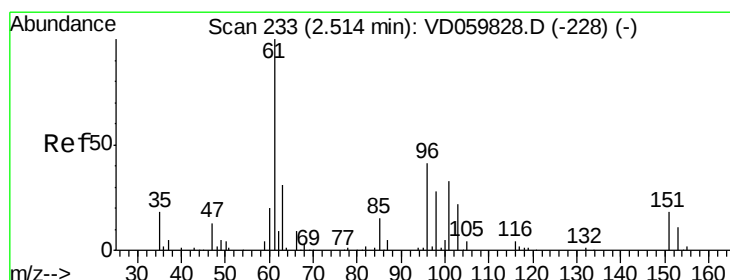
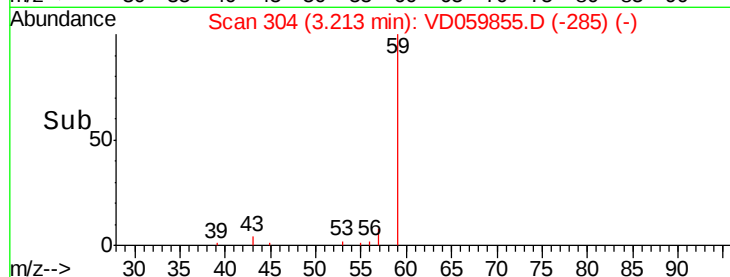
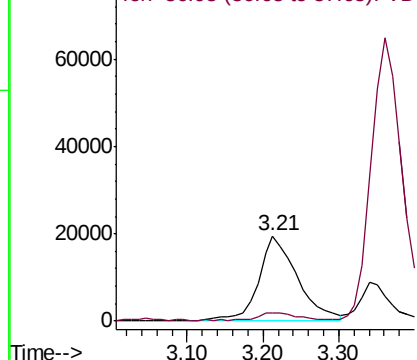
Tert butyl alcohol
 Concen: 243.503 ug/l
 RT: 3.21 min Scan# 304
 Delta R.T. -0.01 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081518-FL-031MS

Tgt Ion: 59 Resp: 70418
 Ion Ratio Lower Upper
 59 100
 57 9.2 10.3 15.5#



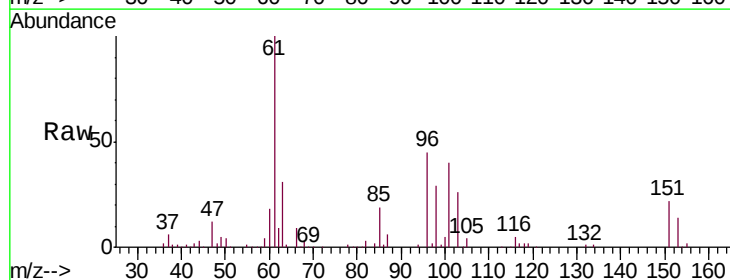
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



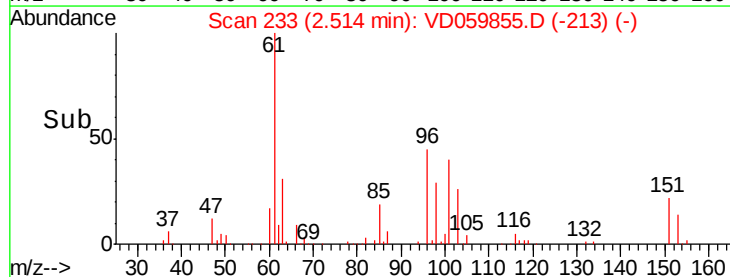
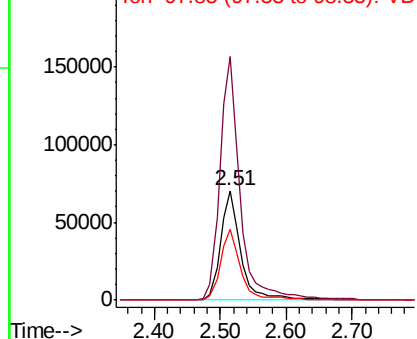
#12

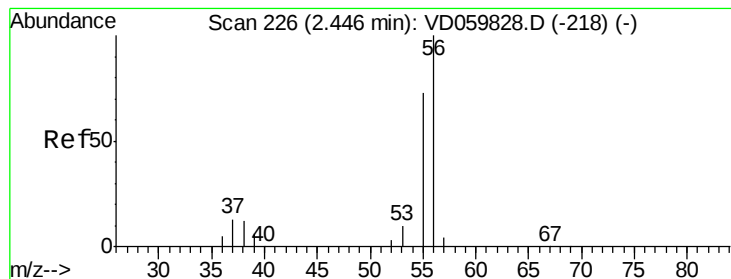
1,1-Dichloroethene
 Concen: 59.167 ug/l
 RT: 2.51 min Scan# 233
 Delta R.T. 0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Tgt Ion: 96 Resp: 150606
 Ion Ratio Lower Upper
 96 100
 61 222.1 194.0 291.0
 98 64.1 53.4 80.0



Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 132.642 ug/l

RT: 2.44 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

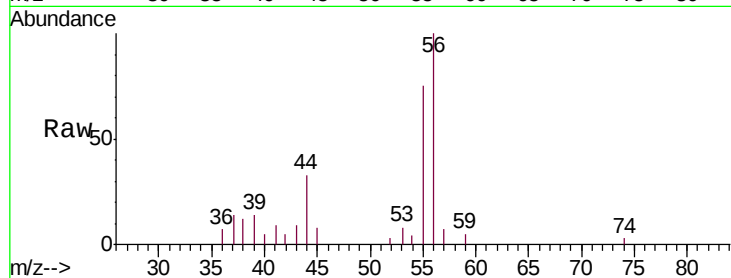
RA-081518-FL-031MS

Tgt Ion: 56 Resp: 39135

Ion Ratio Lower Upper

56 100

55 74.8 60.4 90.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

20000

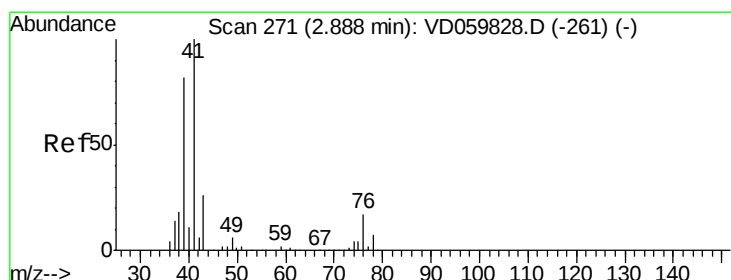
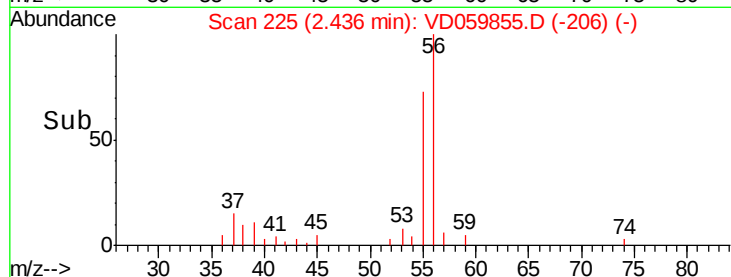
15000

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 48.999 ug/l

RT: 2.89 min Scan# 271

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

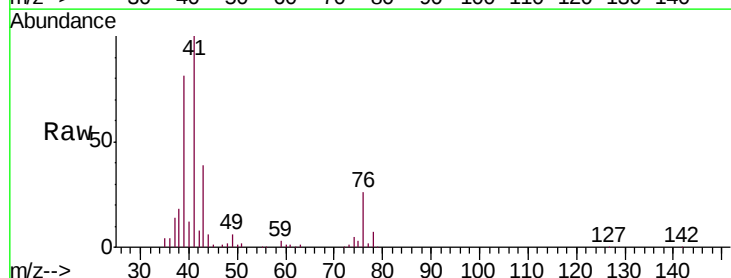
Tgt Ion: 41 Resp: 374989

Ion Ratio Lower Upper

41 100

39 80.6 65.9 98.9

76 25.8 19.9 29.9



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

300000

250000

200000

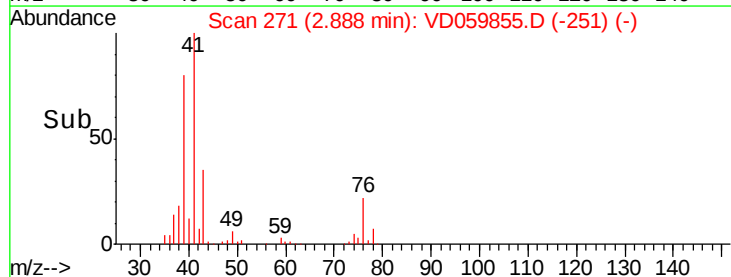
150000

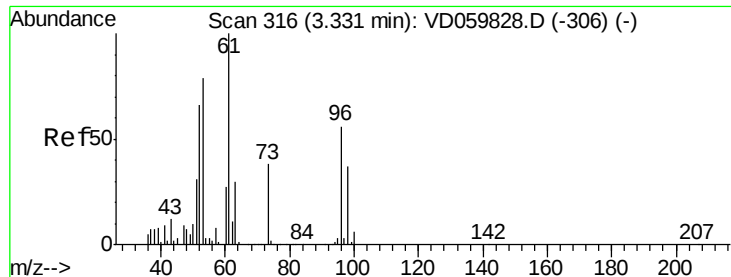
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 209.194 ug/l

RT: 3.31 min Scan# 314

Delta R.T. -0.02 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

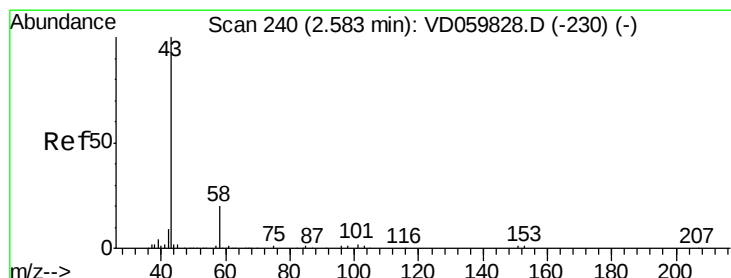
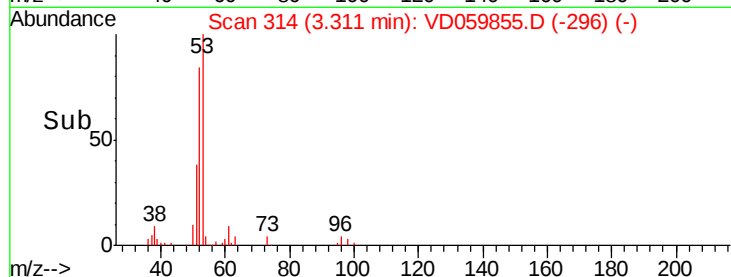
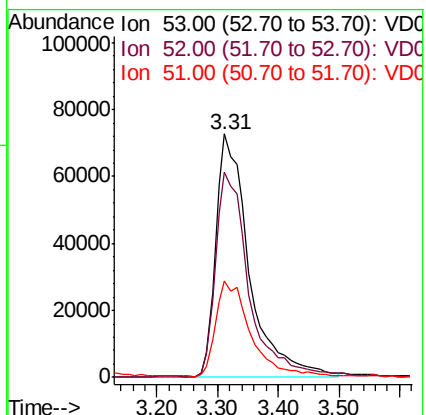
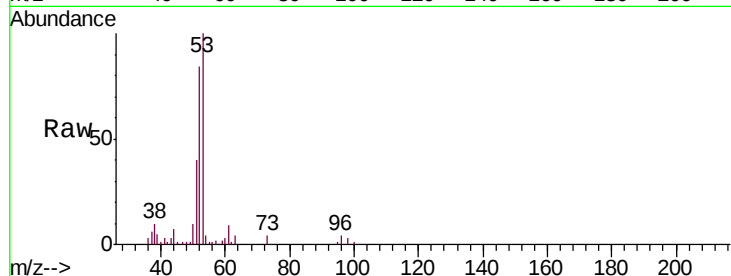
Tgt Ion: 53 Resp: 280008

Ion Ratio Lower Upper

53 100

52 84.1 66.8 100.2

51 39.7 31.6 47.4



#16

Acetone

Concen: 402.954 ug/l

RT: 2.57 min Scan# 239

Delta R.T. -0.01 min

Lab File: VD059855.D

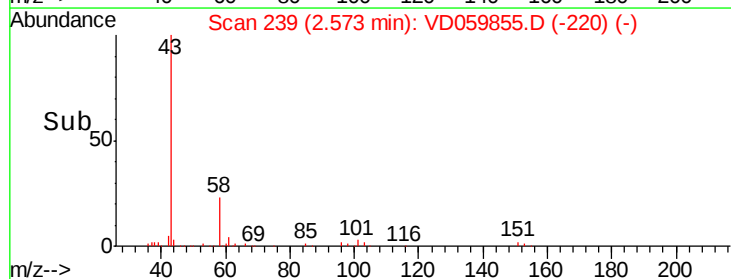
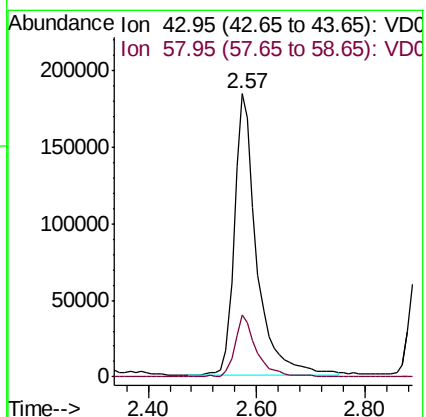
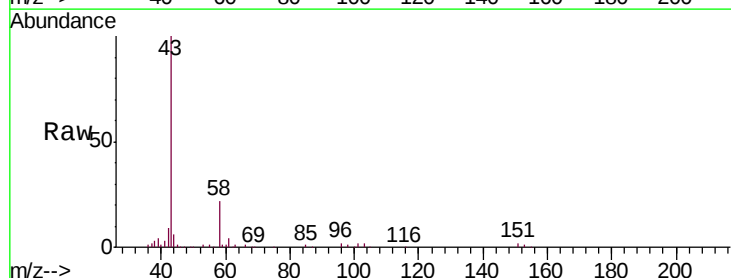
Acq: 21 Aug 2018 14:57

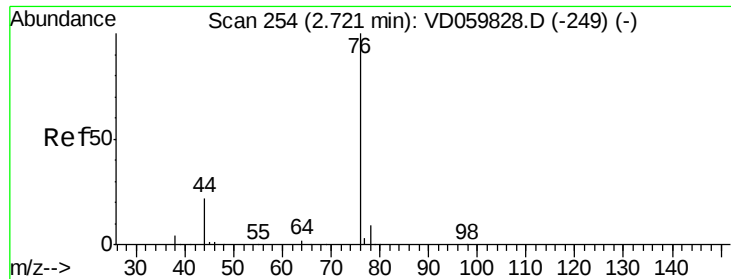
Tgt Ion: 43 Resp: 528355

Ion Ratio Lower Upper

43 100

58 22.1 16.2 24.2

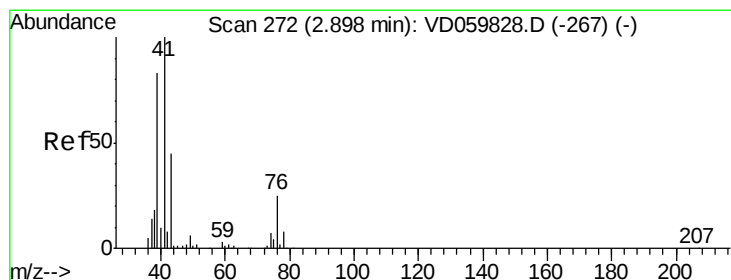
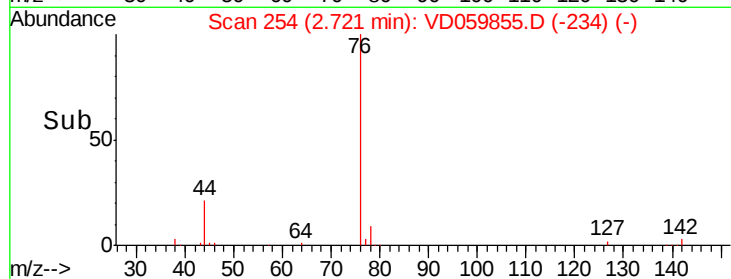
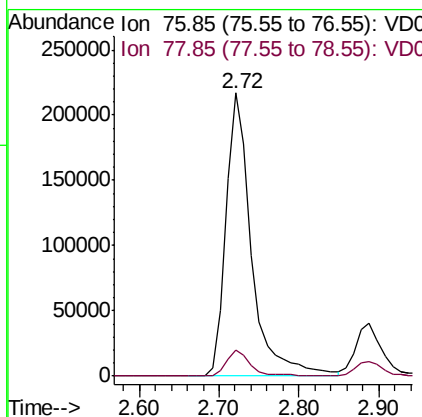
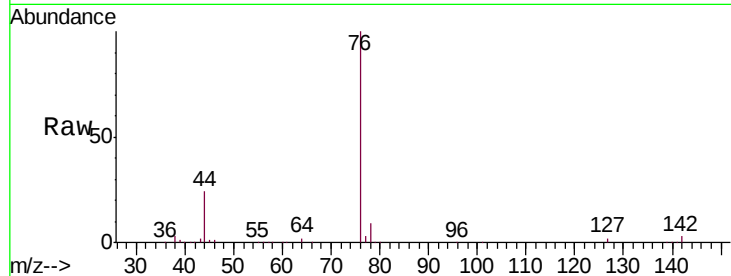




#17
Carbon Disulfide
Concen: 50.786 ug/l
RT: 2.72 min Scan# 254
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

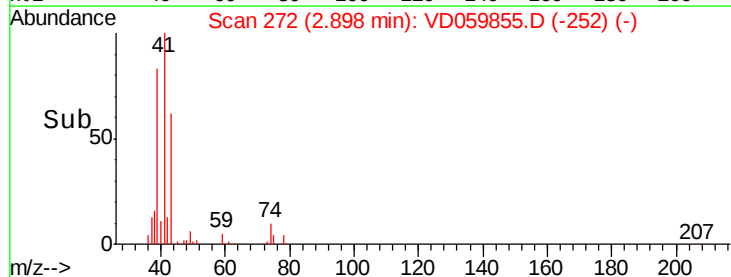
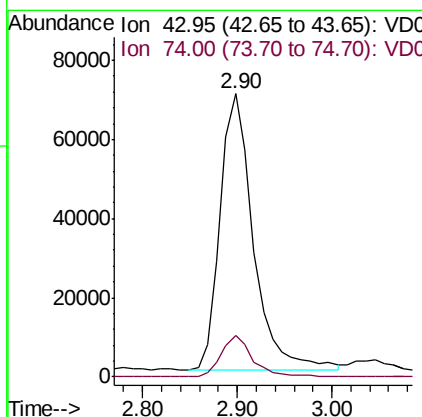
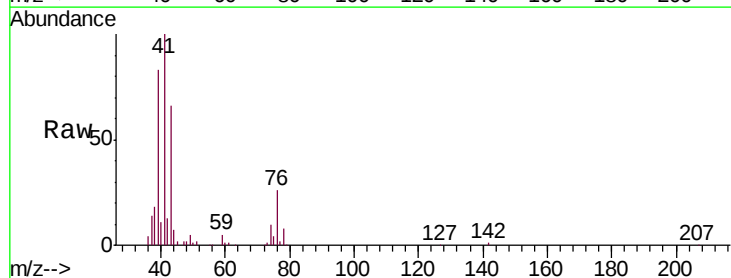
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

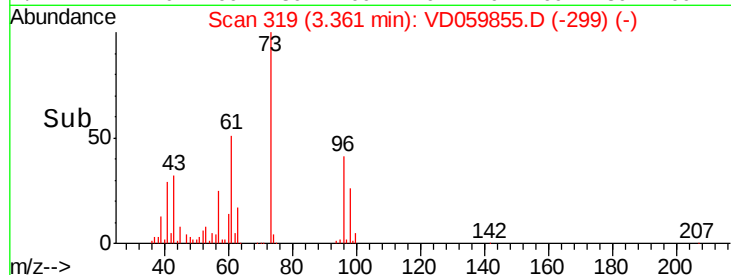
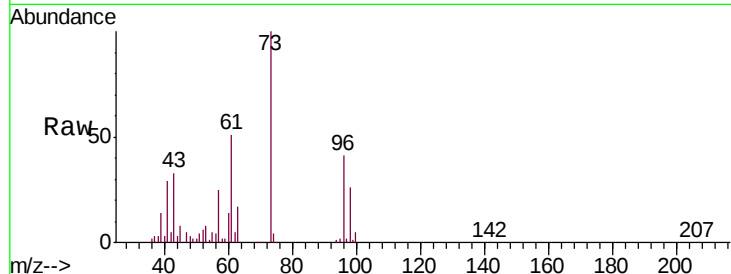
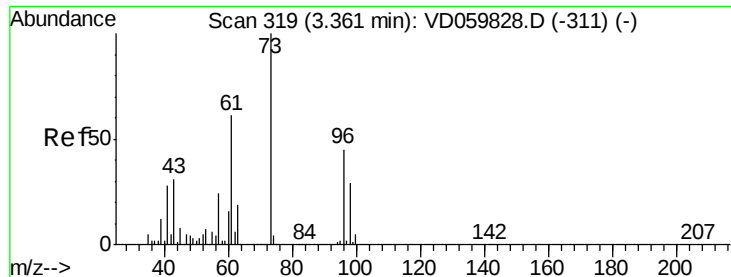
Tgt Ion: 76 Resp: 491271
Ion Ratio Lower Upper
76 100
78 9.2 7.0 10.6



#18
Methyl Acetate
Concen: 64.931 ug/l
RT: 2.90 min Scan# 272
Delta R.T. 0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion: 43 Resp: 170394
Ion Ratio Lower Upper
43 100
74 14.6 11.4 17.0

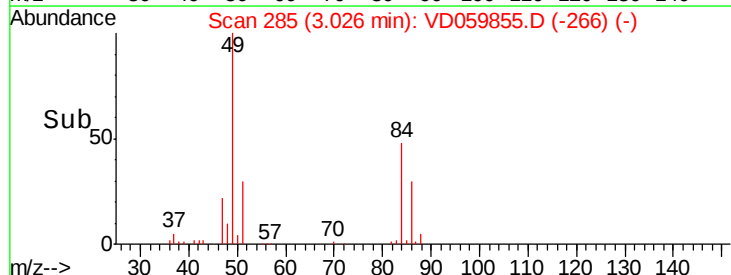
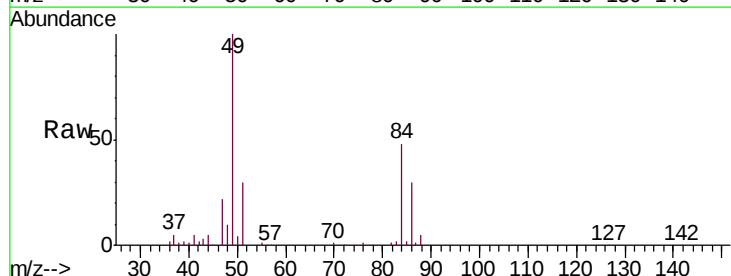
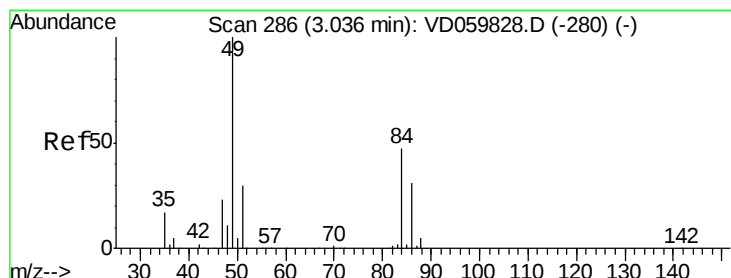
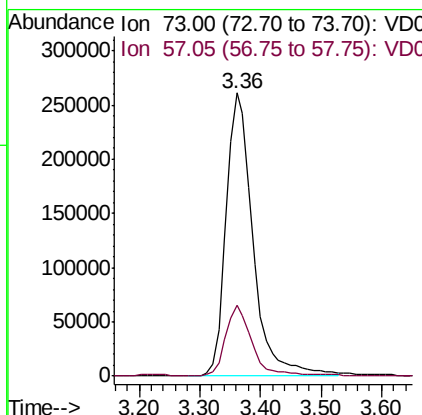




#19
Methyl tert-butyl Ether
Concen: 47.741 ug/l
RT: 3.36 min Scan# 319
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

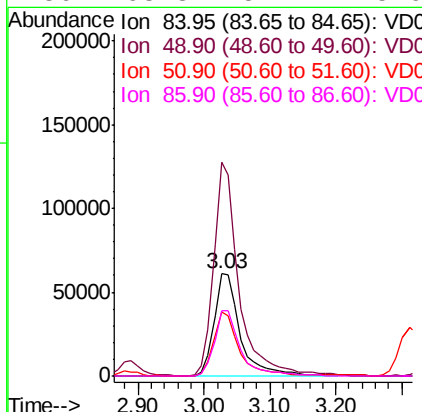
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

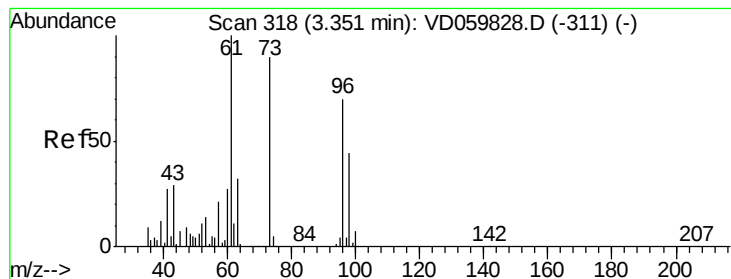
Tgt Ion: 73 Resp: 807531
Ion Ratio Lower Upper
73 100
57 24.8 19.4 29.0



#20
Methylene Chloride
Concen: 51.446 ug/l
RT: 3.03 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion: 84 Resp: 167318
Ion Ratio Lower Upper
84 100
49 208.9 170.4 255.6
51 63.1 51.4 77.0
86 63.3 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 46.884 ug/l

RT: 3.35 min Scan# 318

Delta R.T. 0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

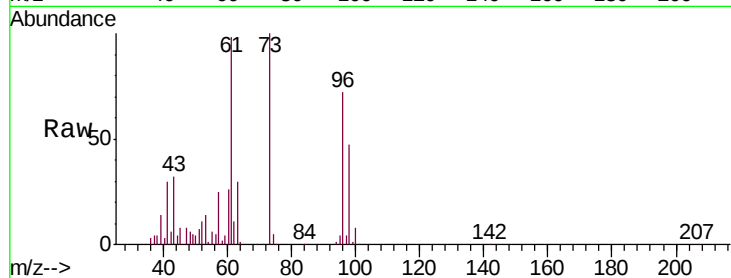
Tgt Ion: 96 Resp: 379058

Ion Ratio Lower Upper

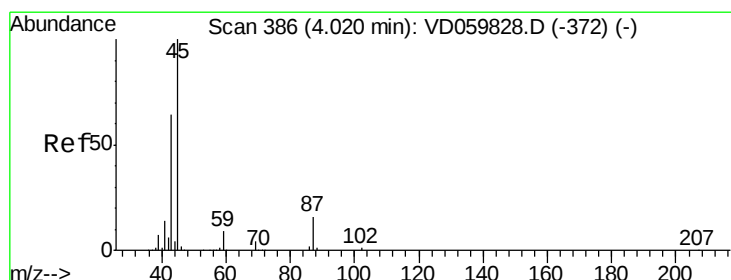
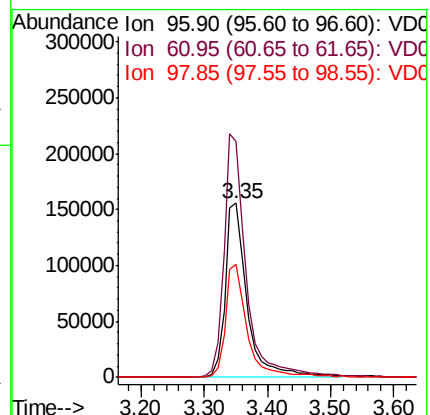
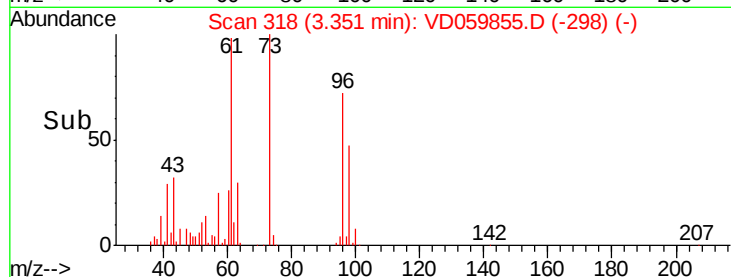
96 100

61 135.6 114.1 171.1

98 64.8 50.1 75.1



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 52.748 ug/l

RT: 4.02 min Scan# 386

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Tgt Ion: 45 Resp: 2062080

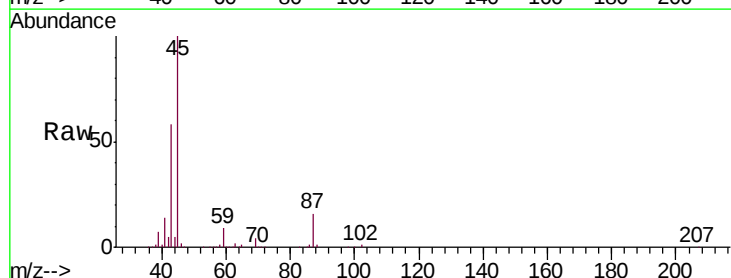
Ion Ratio Lower Upper

45 100

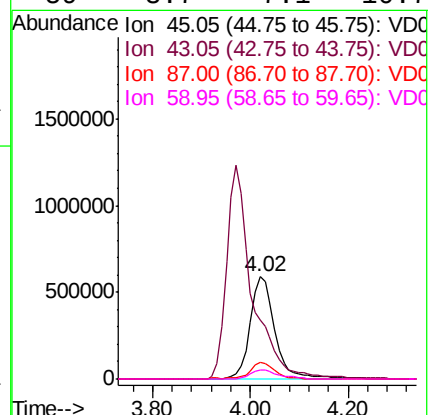
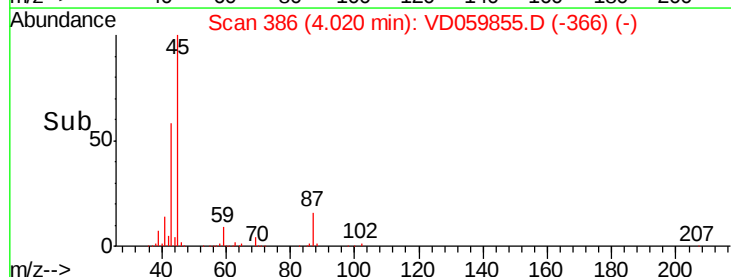
43 58.4 51.1 76.7

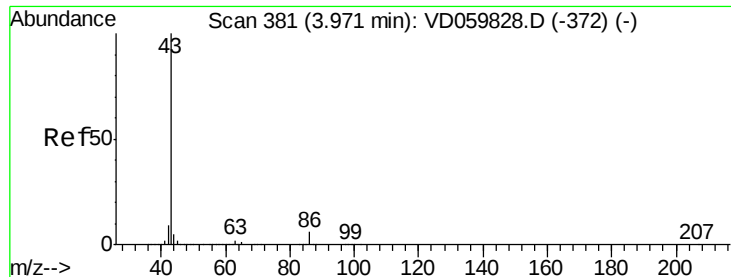
87 16.2 12.5 18.7

59 8.7 7.1 10.7



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 211.715 ug/l

RT: 3.97 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

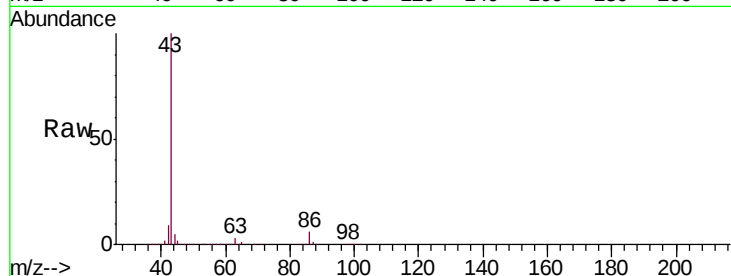
RA-081518-FL-031MS

Tgt Ion: 43 Resp: 4446043

Ion Ratio Lower Upper

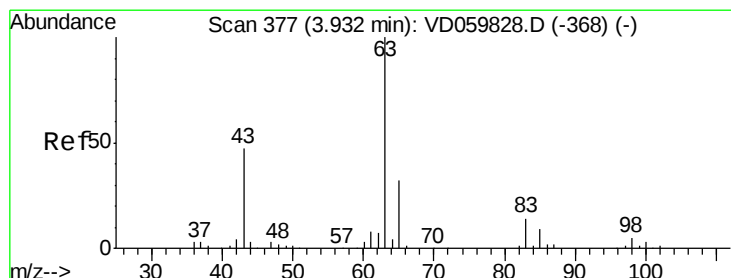
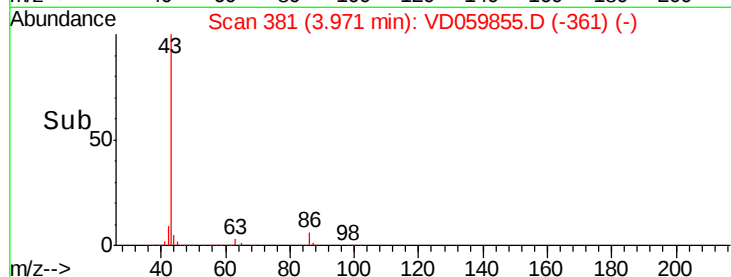
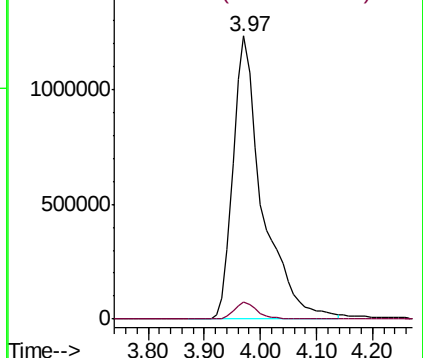
43 100

86 5.9 4.6 7.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 51.704 ug/l

RT: 3.92 min Scan# 376

Delta R.T. -0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

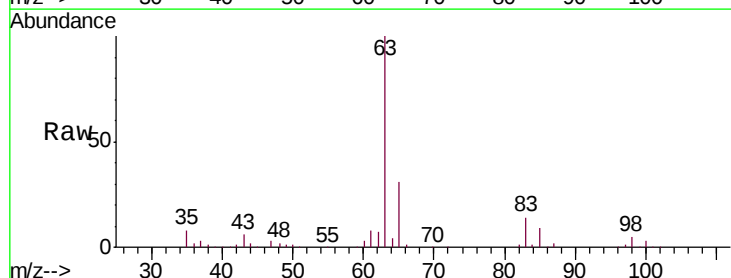
Tgt Ion: 63 Resp: 888847

Ion Ratio Lower Upper

63 100

98 5.4 2.5 7.6

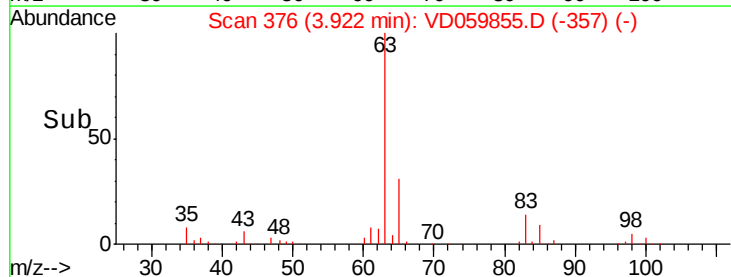
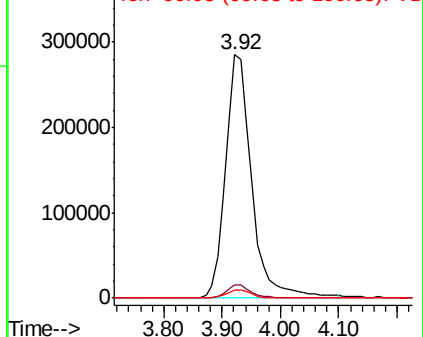
100 3.1 1.7 5.0

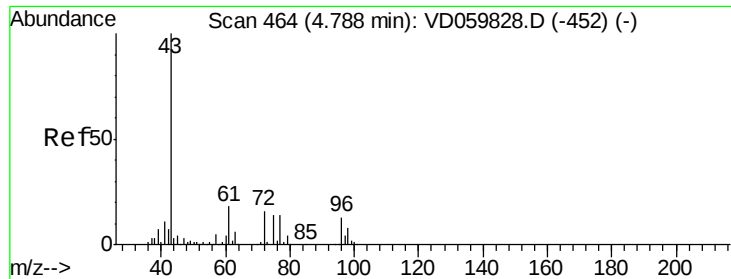


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 284.950 ug/l

RT: 4.79 min Scan# 464

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

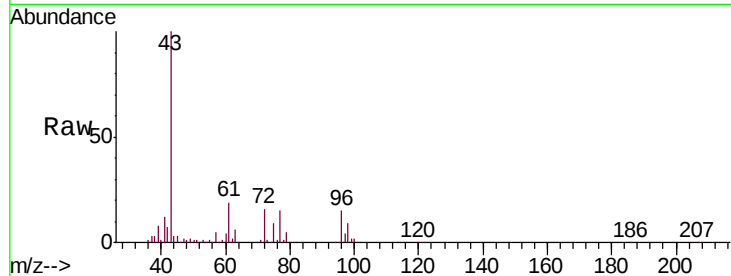
RA-081518-FL-031MS

Tgt Ion: 43 Resp: 1129348

Ion Ratio Lower Upper

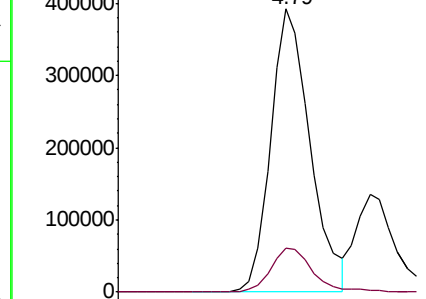
43 100

72 15.6 12.4 18.6

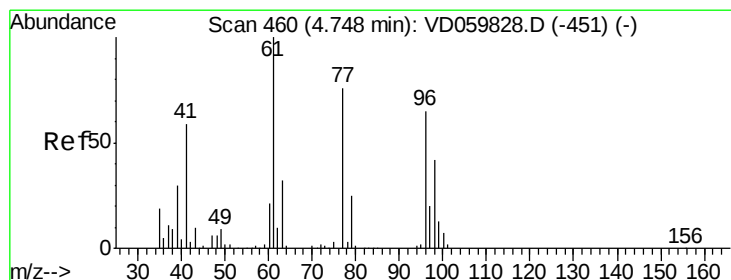
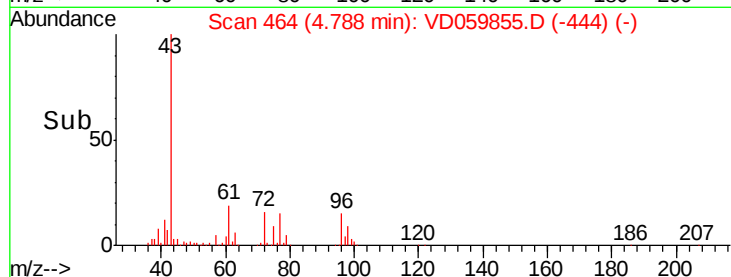


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#26

2,2-Dichloropropane

Concen: 50.280 ug/l

RT: 4.75 min Scan# 460

Delta R.T. -0.00 min

Lab File: VD059855.D

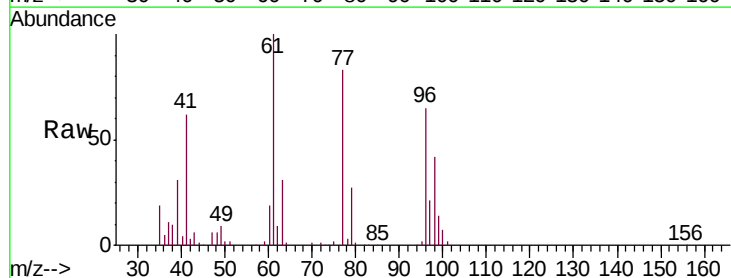
Acq: 21 Aug 2018 14:57

Tgt Ion: 77 Resp: 678199

Ion Ratio Lower Upper

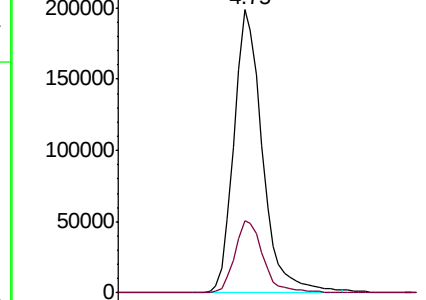
77 100

97 25.4 13.0 38.9

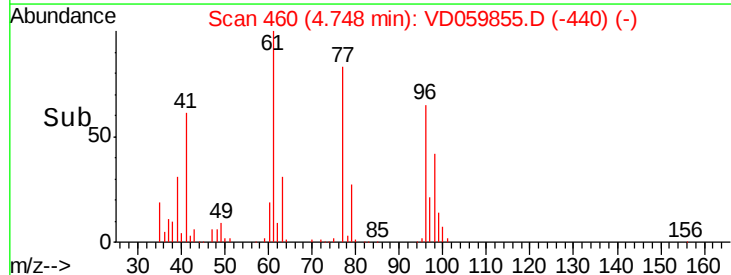


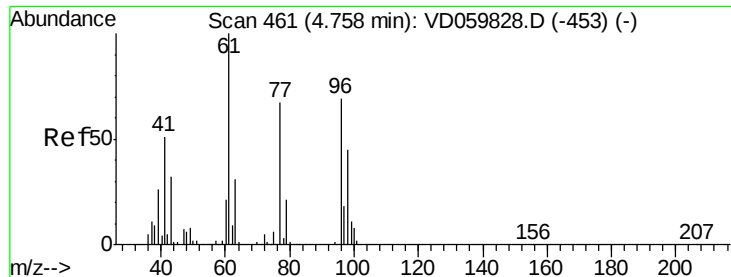
Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



Time-->



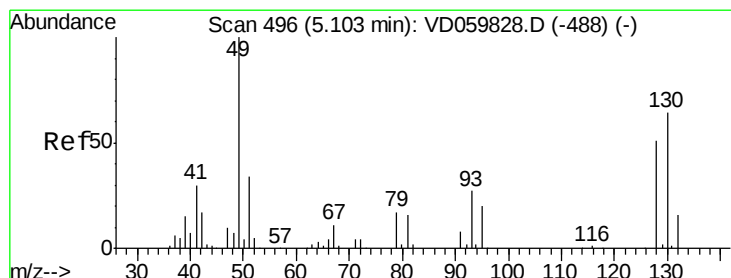
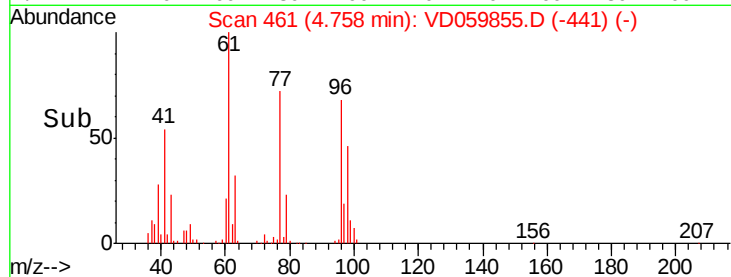
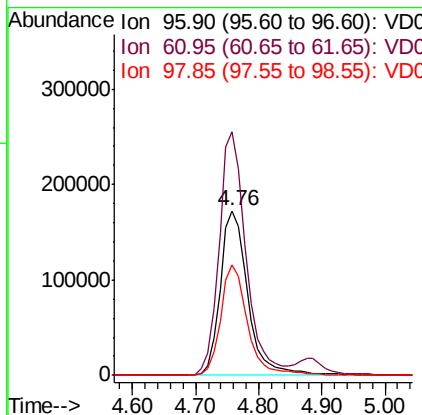
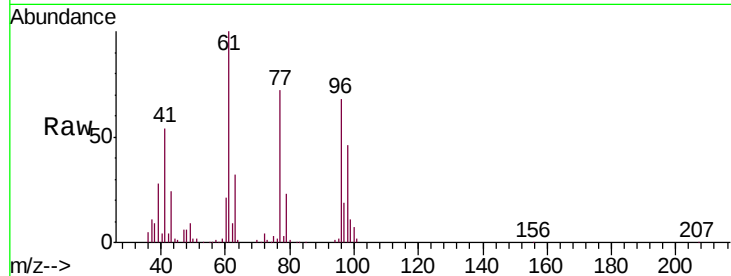


#27

cis-1,2-Dichloroethene
 Concen: 51.307 ug/l
 RT: 4.76 min Scan# 461
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081518-FL-031MS

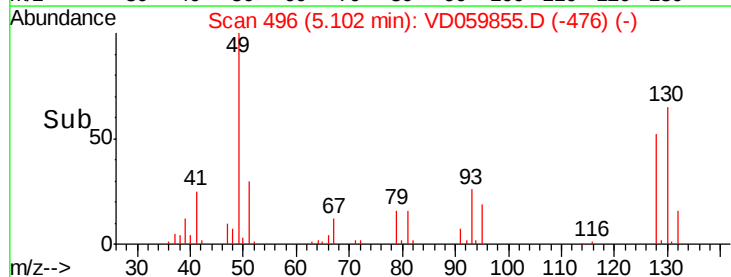
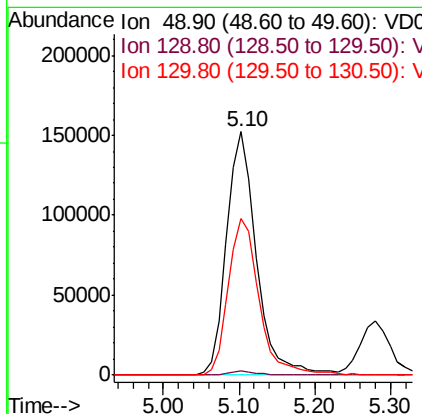
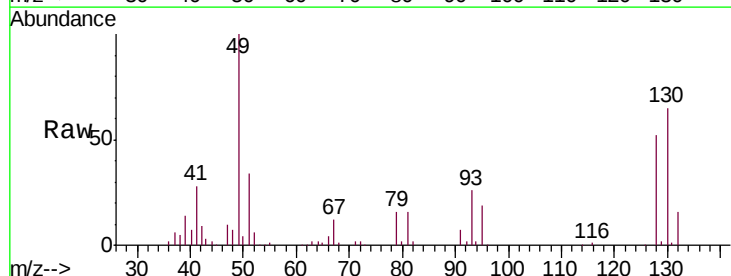
Tgt Ion: 96 Resp: 524963
 Ion Ratio Lower Upper
 96 100
 61 148.0 0.0 291.8
 98 67.3 0.0 131.6

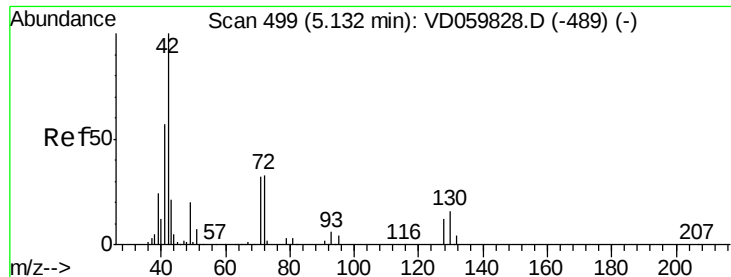


#28

Bromochloromethane
 Concen: 47.713 ug/l
 RT: 5.10 min Scan# 496
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Tgt Ion: 49 Resp: 415638
 Ion Ratio Lower Upper
 49 100
 129 1.9 0.0 3.8
 130 64.5 51.0 76.6





#29

Tetrahydrofuran

Concen: 235.076 ug/l

RT: 5.14 min Scan# 500

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

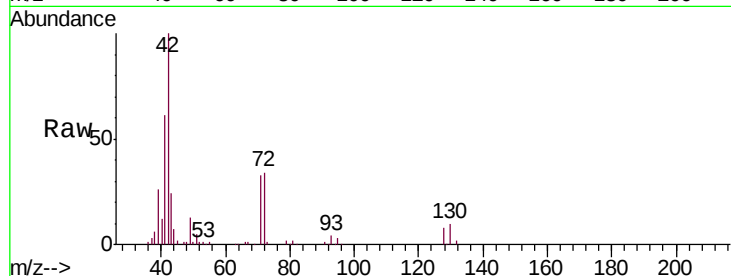
Tgt Ion: 42 Resp: 471738

Ion Ratio Lower Upper

42 100

72 32.1 25.8 38.6

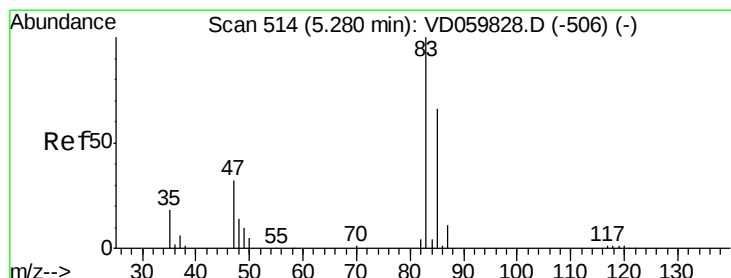
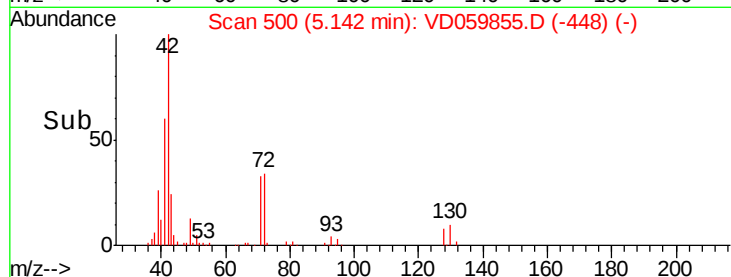
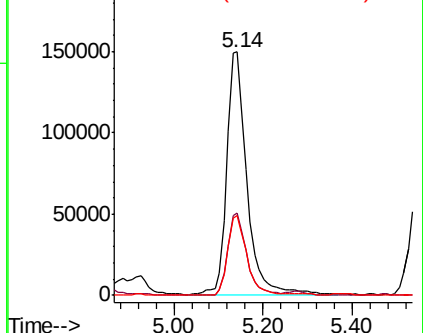
71 32.1 25.7 38.5



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 52.155 ug/l

RT: 5.28 min Scan# 514

Delta R.T. -0.00 min

Lab File: VD059855.D

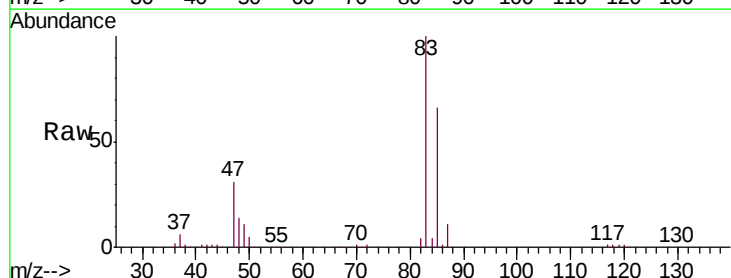
Acq: 21 Aug 2018 14:57

Tgt Ion: 83 Resp: 884848

Ion Ratio Lower Upper

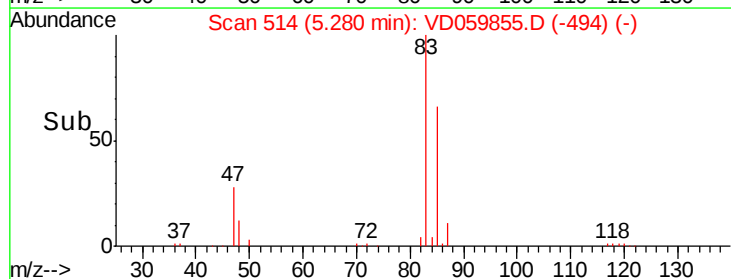
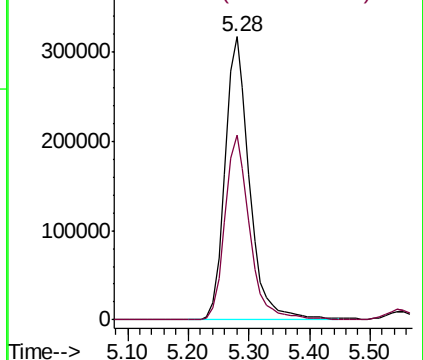
83 100

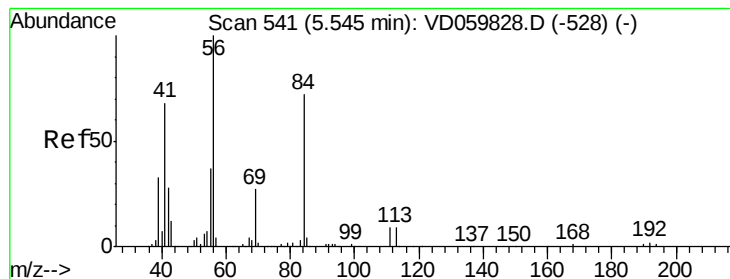
85 65.5 52.9 79.3



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 46.670 ug/l

RT: 5.55 min Scan# 541

Delta R.T. 0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

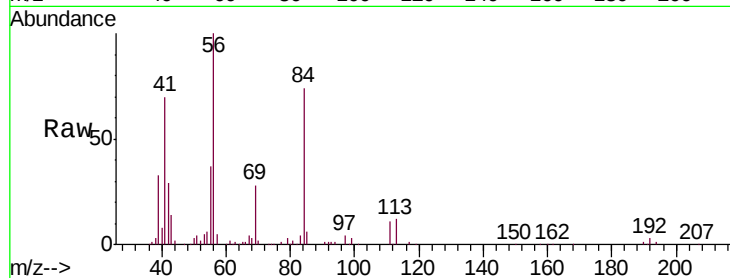
Tgt Ion: 56 Resp: 669307

Ion Ratio Lower Upper

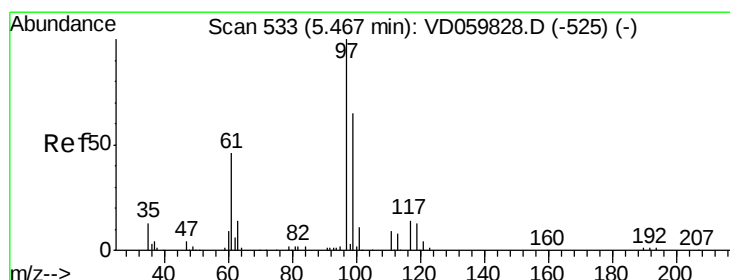
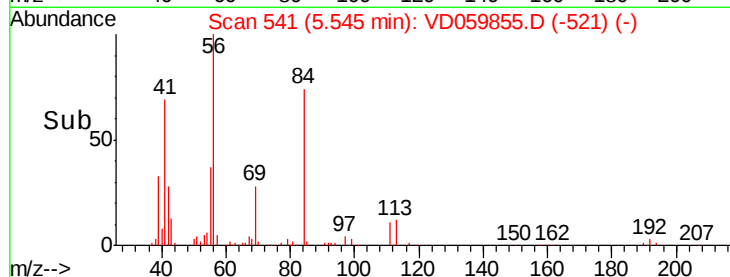
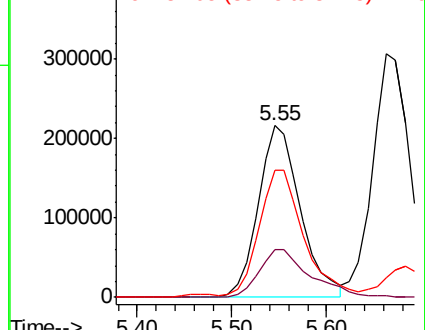
56 100

69 27.8 21.7 32.5

84 74.2 57.8 86.6



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 51.217 ug/l

RT: 5.47 min Scan# 533

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

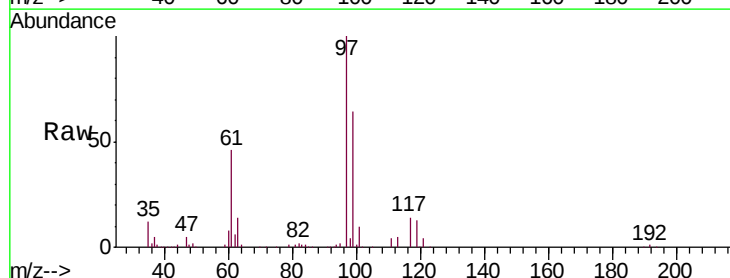
Tgt Ion: 97 Resp: 732228

Ion Ratio Lower Upper

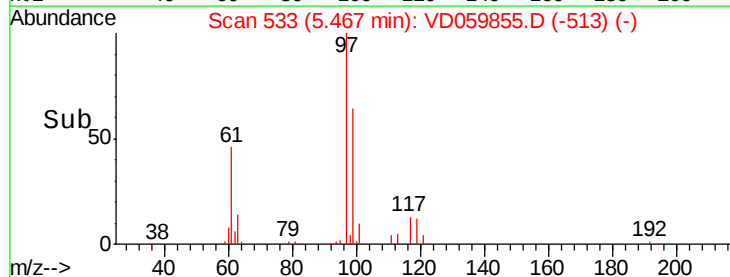
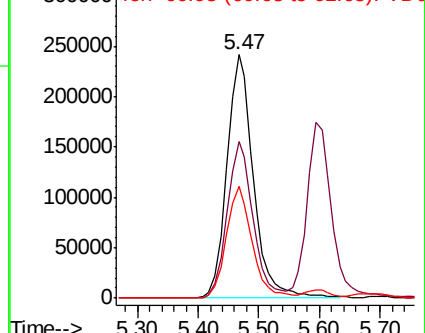
97 100

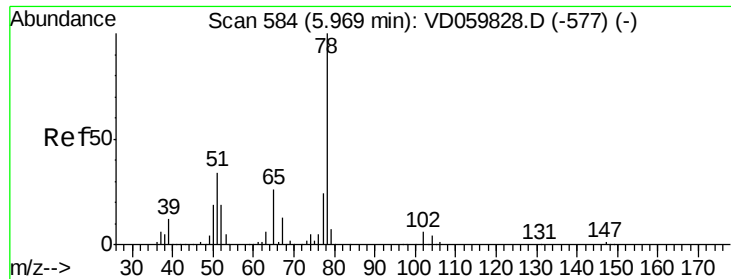
99 64.1 51.9 77.9

61 45.7 37.0 55.6



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 51.217 ug/l

RT: 5.98 min Scan# 585

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

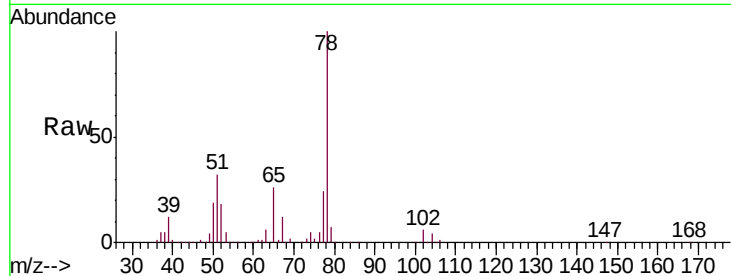
RA-081518-FL-031MS

Tgt Ion: 65 Resp: 378882

Ion Ratio Lower Upper

65 100

67 48.7 0.0 102.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

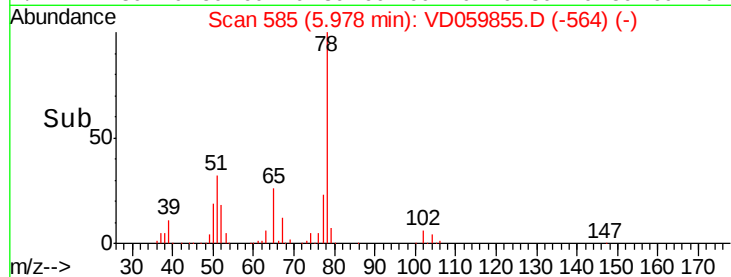
150000

100000

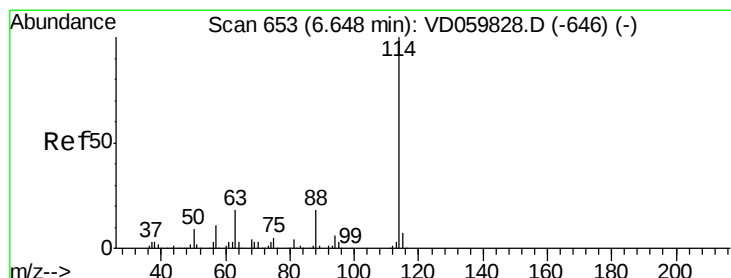
50000

0

5.90 6.00



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

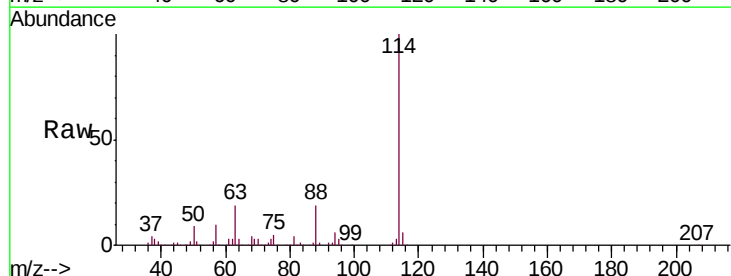
Tgt Ion: 114 Resp: 1387627

Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.0

88 18.6 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

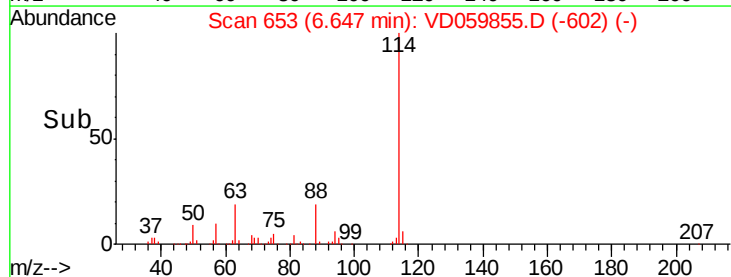
600000

400000

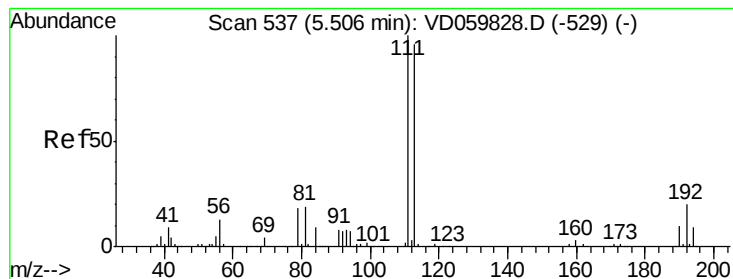
200000

0

6.60 6.80



Time-->



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.51 min Scan# 537

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

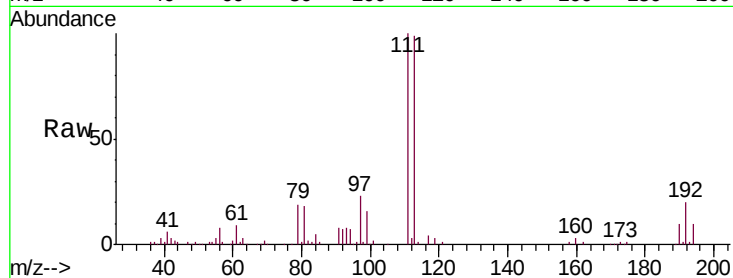
Tgt Ion:113 Resp: 520866

Ion Ratio Lower Upper

113 100

111 100.7 83.3 124.9

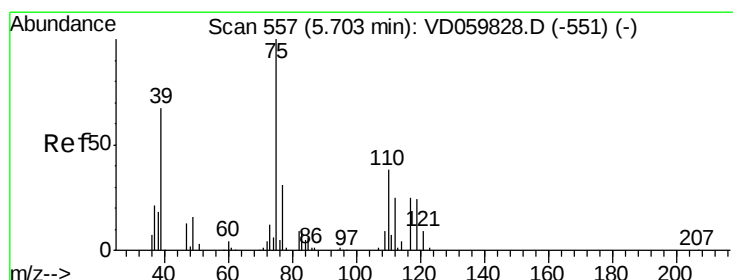
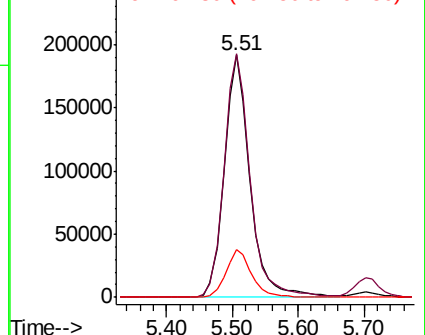
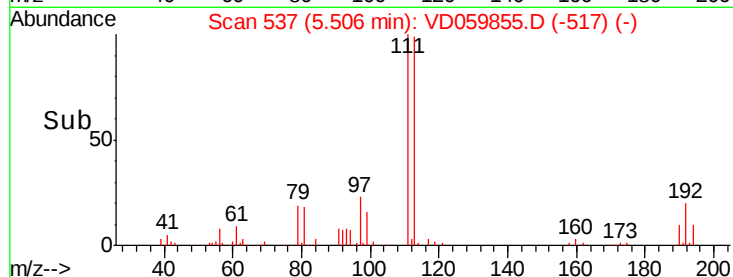
192 19.9 16.8 25.2



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 50.376 ug/l

RT: 5.70 min Scan# 557

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

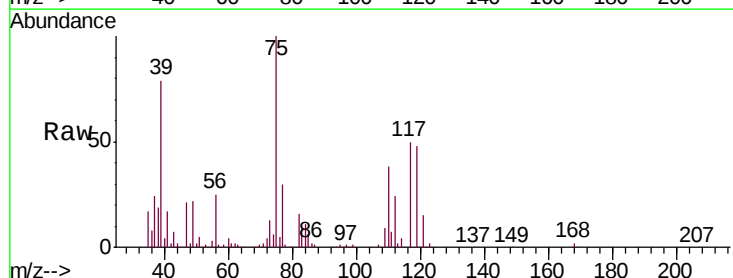
Tgt Ion: 75 Resp: 592832

Ion Ratio Lower Upper

75 100

110 38.4 18.8 56.4

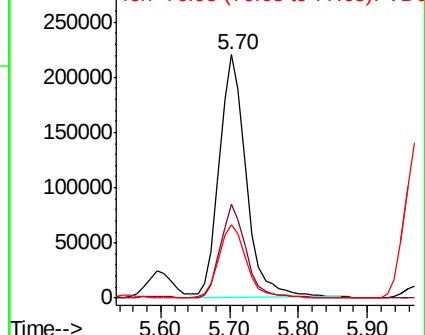
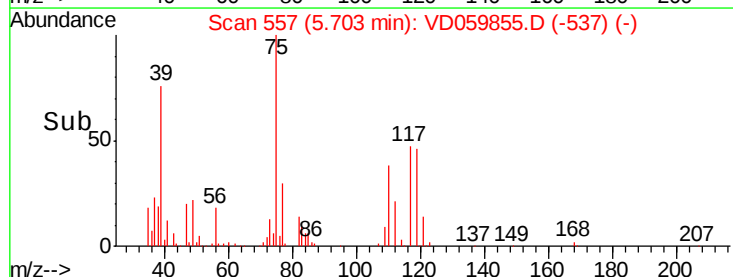
77 30.3 24.9 37.3

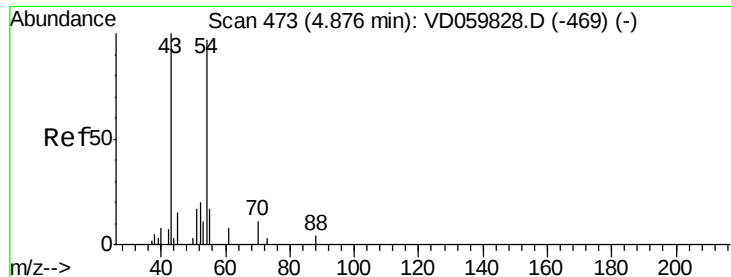


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

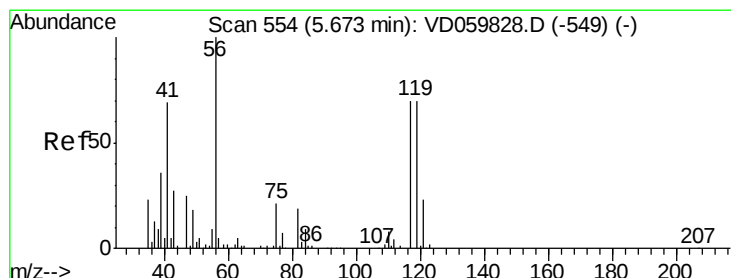
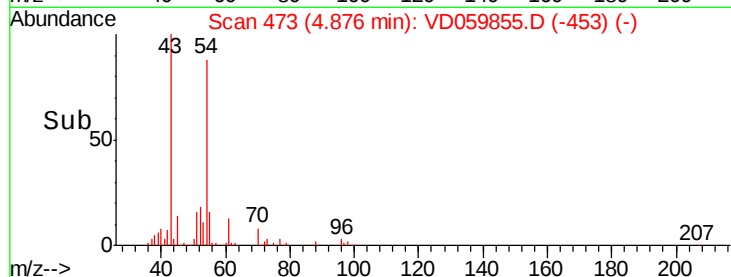
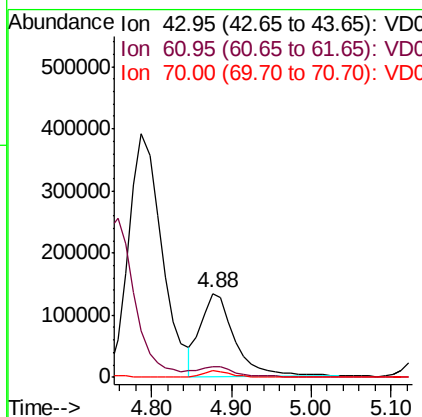
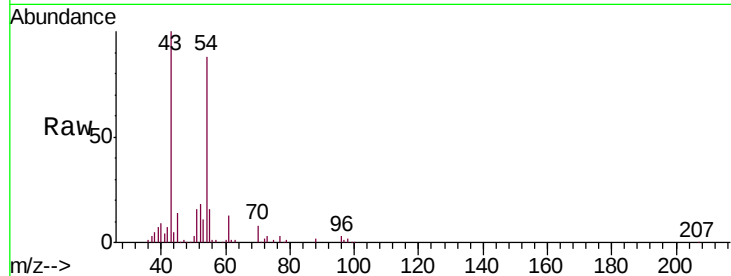




#37
Ethyl Acetate
Concen: 44.954 ug/l
RT: 4.88 min Scan# 473
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

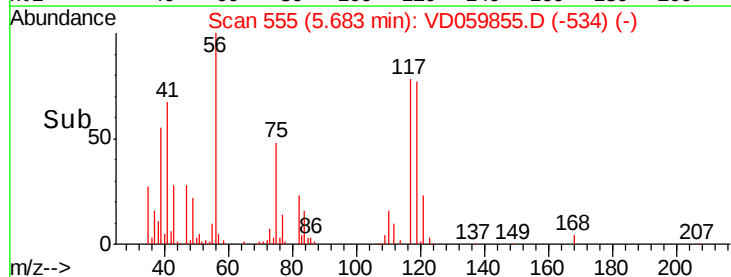
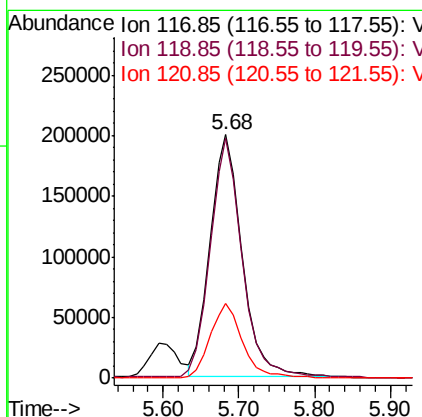
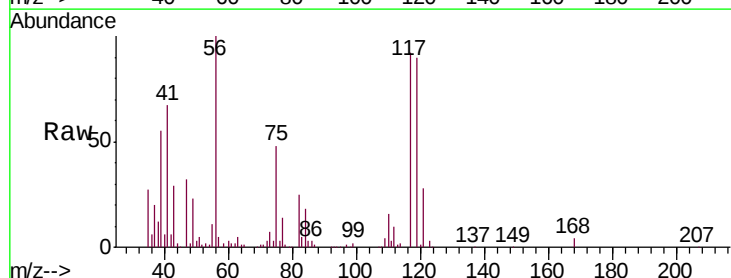
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

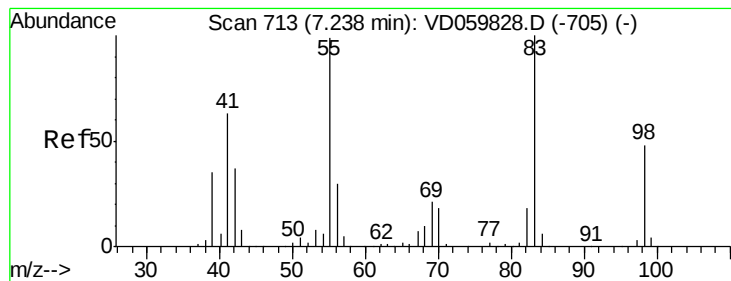
Tgt Ion: 43 Resp: 392162
Ion Ratio Lower Upper
43 100
61 13.2 10.4 15.6
70 7.7 6.2 9.2



#38
Carbon Tetrachloride
Concen: 49.922 ug/l
RT: 5.68 min Scan# 555
Delta R.T. 0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion: 117 Resp: 586355
Ion Ratio Lower Upper
117 100
119 98.3 77.0 115.4
121 30.5 24.7 37.1





#39

Methylcyclohexane

Concen: 43.791 ug/l

RT: 7.25 min Scan# 714

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

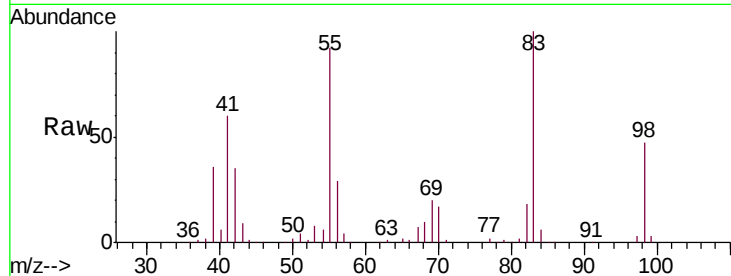
Tgt Ion: 83 Resp: 551216

Ion Ratio Lower Upper

83 100

55 91.6 79.0 118.6

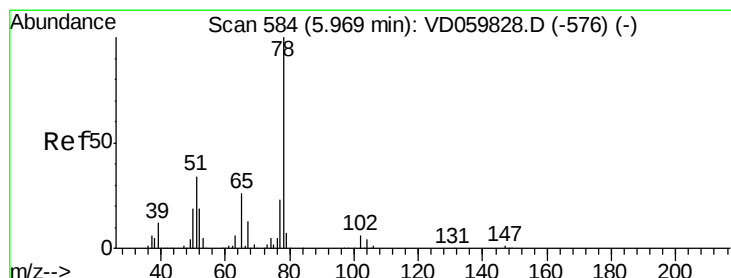
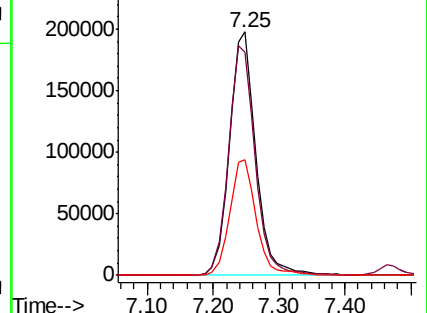
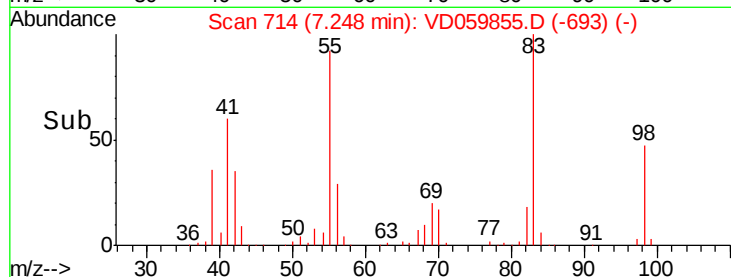
98 47.5 38.1 57.1



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 54.476 ug/l

RT: 5.97 min Scan# 584

Delta R.T. -0.00 min

Lab File: VD059855.D

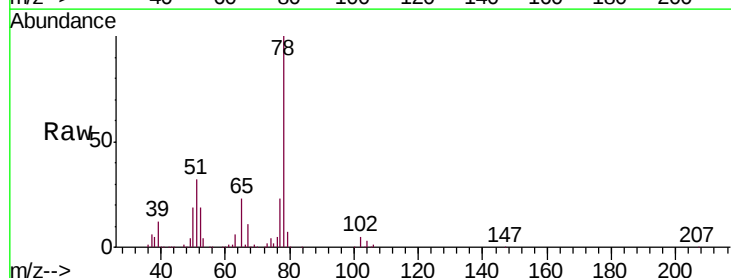
Acq: 21 Aug 2018 14:57

Tgt Ion: 78 Resp: 1660937

Ion Ratio Lower Upper

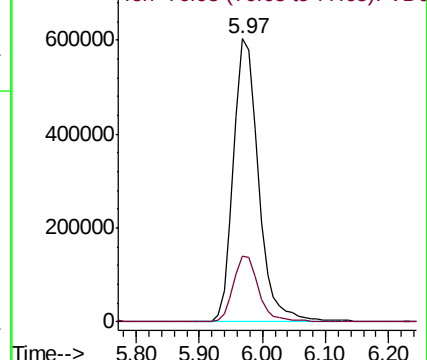
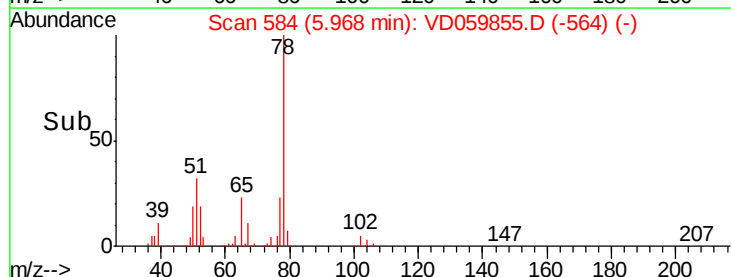
78 100

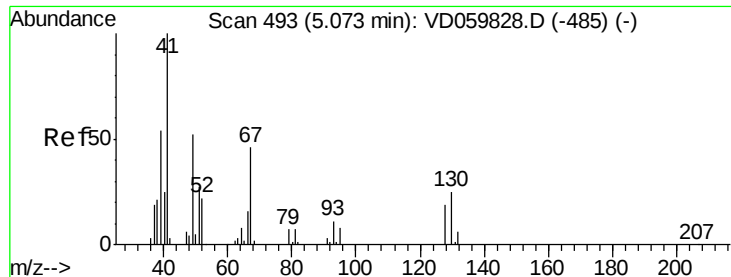
77 23.4 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 44.124 ug/l

RT: 5.08 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

Tgt Ion: 41 Resp: 197193

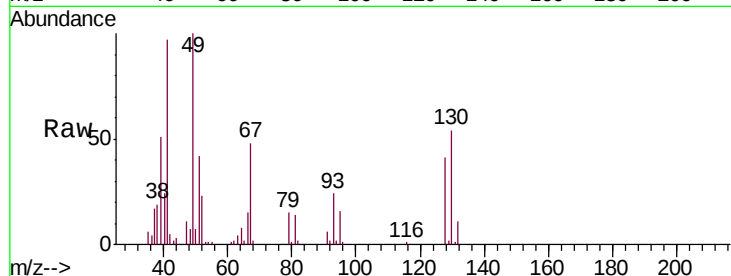
Ion Ratio Lower Upper

41 100

39 52.8 43.0 64.6

67 49.2 36.7 55.1

52 23.3 18.0 27.0

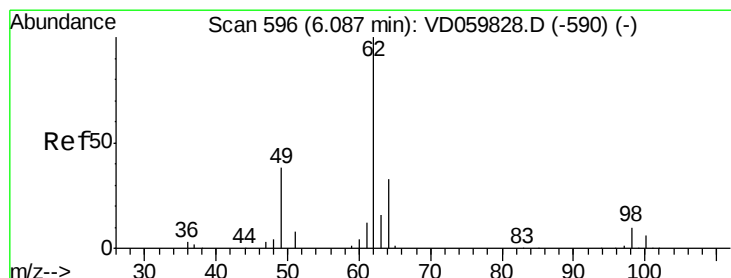
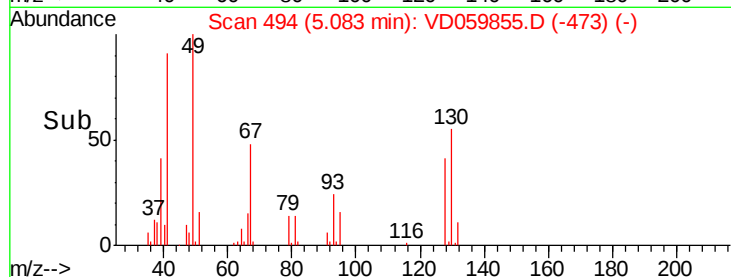
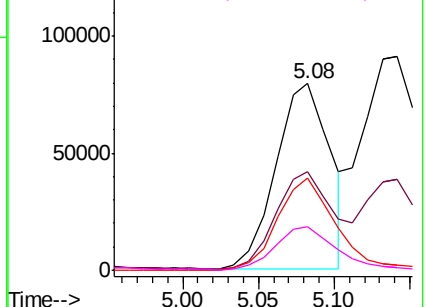


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 49.553 ug/l

RT: 6.09 min Scan# 596

Delta R.T. -0.00 min

Lab File: VD059855.D

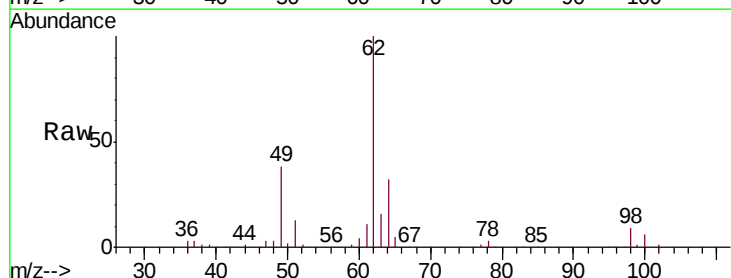
Acq: 21 Aug 2018 14:57

Tgt Ion: 62 Resp: 491970

Ion Ratio Lower Upper

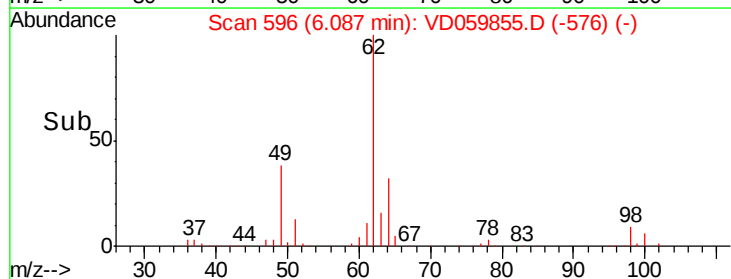
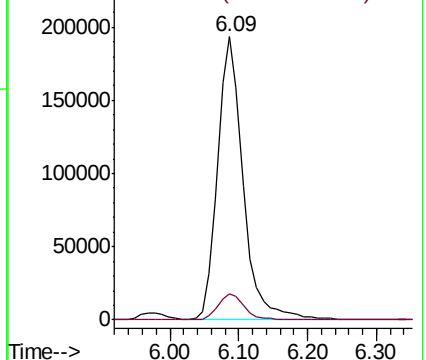
62 100

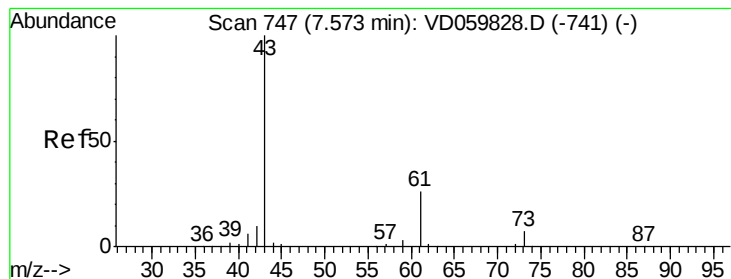
98 9.3 0.0 19.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 42.684 ug/l

RT: 7.58 min Scan# 748

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

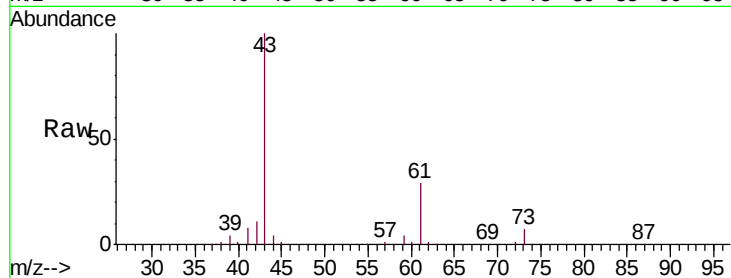
Tgt Ion: 43 Resp: 515025

Ion Ratio Lower Upper

43 100

61 28.6 21.0 31.4

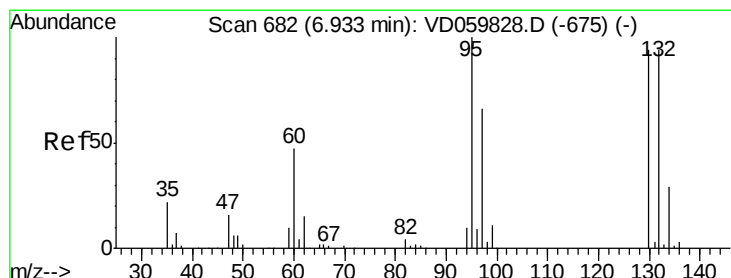
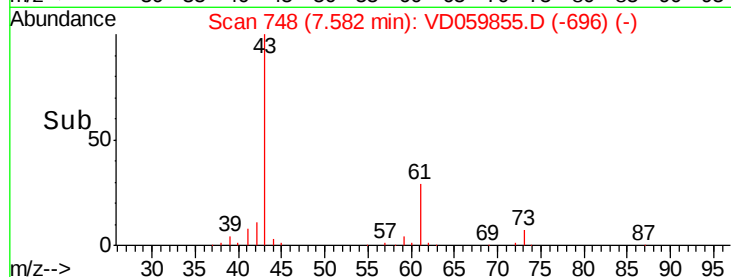
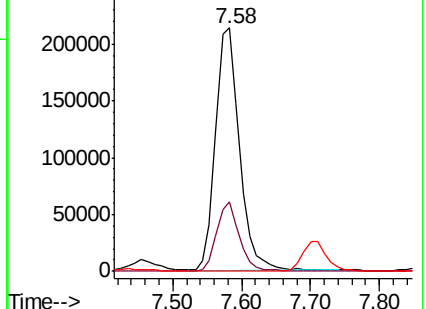
87 0.4 0.2 0.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 51.430 ug/l

RT: 6.94 min Scan# 683

Delta R.T. 0.01 min

Lab File: VD059855.D

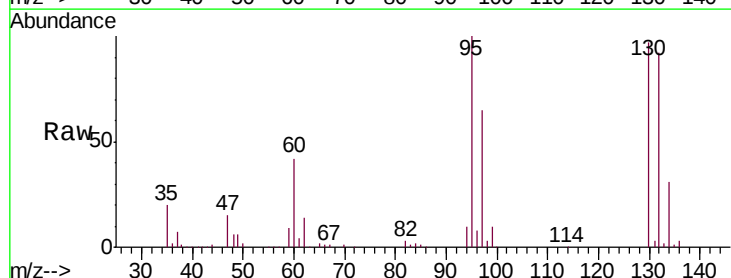
Acq: 21 Aug 2018 14:57

Tgt Ion:130 Resp: 466364

Ion Ratio Lower Upper

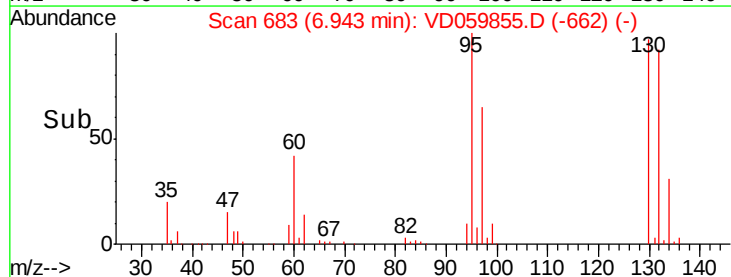
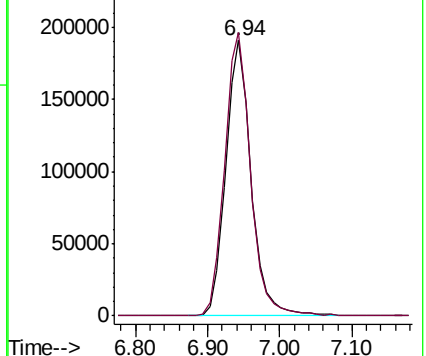
130 100

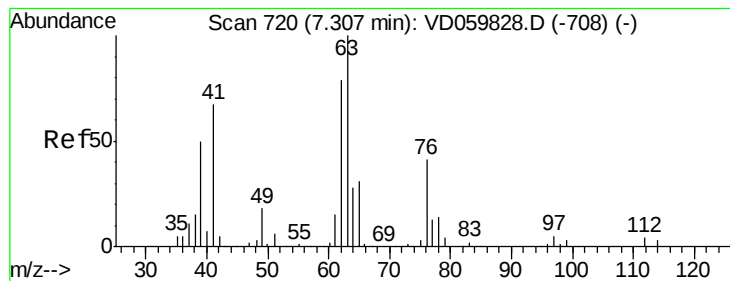
95 102.8 0.0 213.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 52.306 ug/l

RT: 7.31 min Scan# 720

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

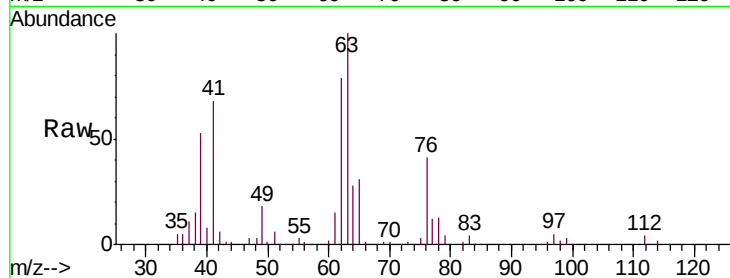
RA-081518-FL-031MS

Tgt Ion: 63 Resp: 468296

Ion Ratio Lower Upper

63 100

65 31.0 24.5 36.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

7.31

200000

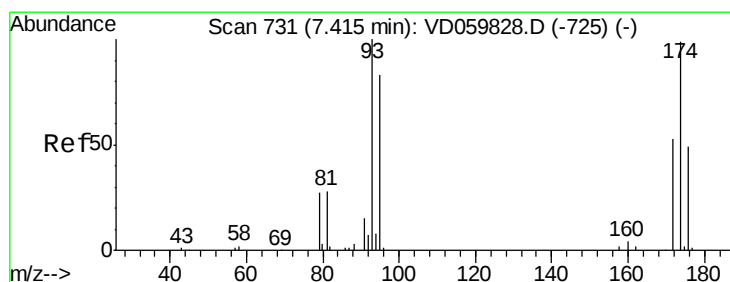
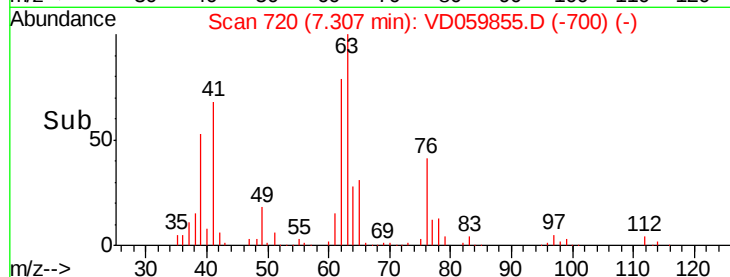
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 49.120 ug/l

RT: 7.42 min Scan# 732

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

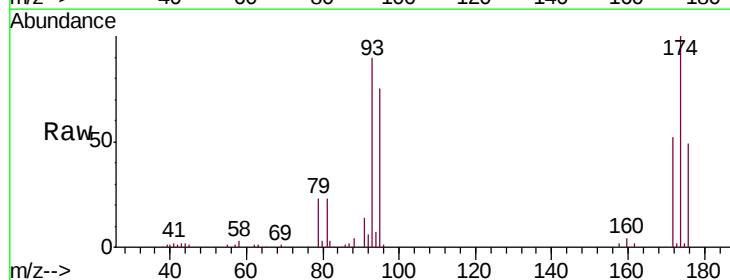
Tgt Ion: 93 Resp: 273813

Ion Ratio Lower Upper

93 100

95 83.5 66.3 99.5

174 110.8 79.4 119.0



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

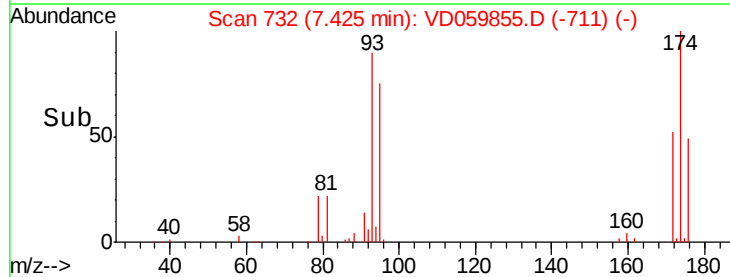
150000

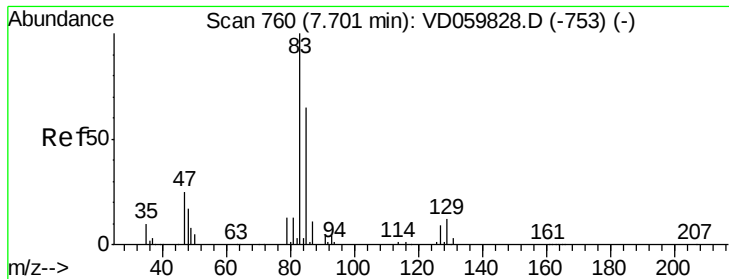
100000

50000

0

Time-->





#47

Bromodichloromethane

Concen: 50.215 ug/l

RT: 7.70 min Scan# 760

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

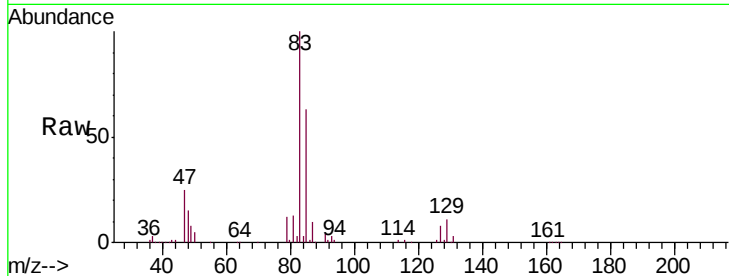
Tgt Ion: 83 Resp: 618008

Ion Ratio Lower Upper

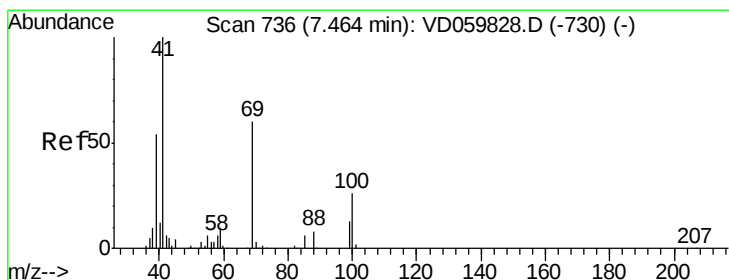
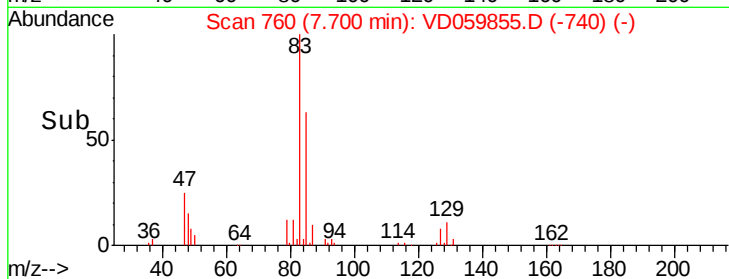
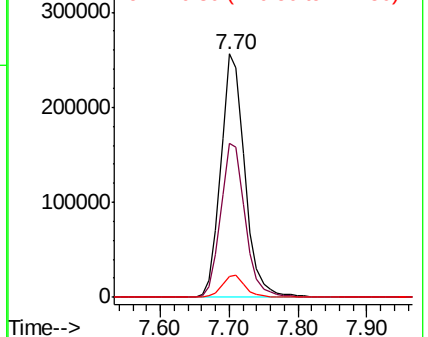
83 100

85 63.4 52.2 78.4

127 8.5 7.1 10.7



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 48.141 ug/l

RT: 7.46 min Scan# 736

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

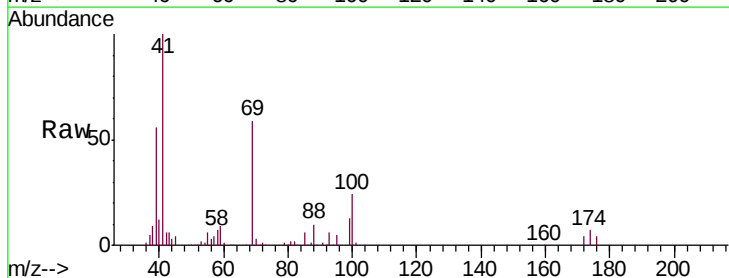
Tgt Ion: 41 Resp: 320370

Ion Ratio Lower Upper

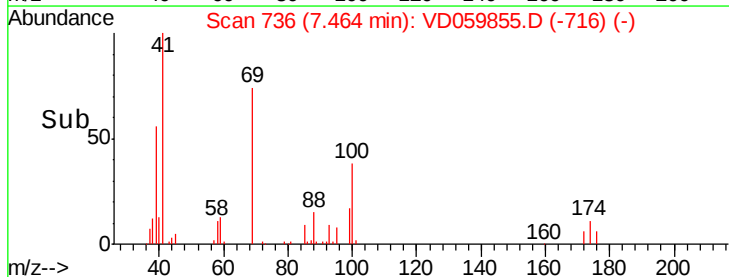
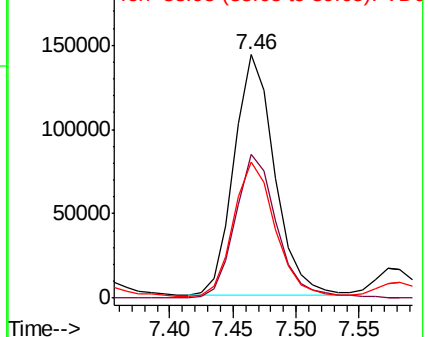
41 100

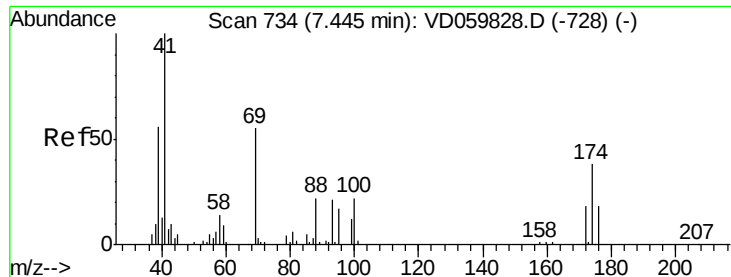
69 59.2 47.0 70.4

39 55.9 43.4 65.2



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 1029.482 ug/l

RT: 7.45 min Scan# 735

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

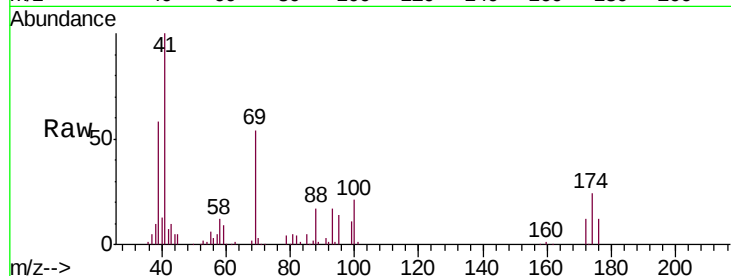
Tgt Ion: 88 Resp: 57977

Ion Ratio Lower Upper

88 100

43 57.8 41.4 62.0

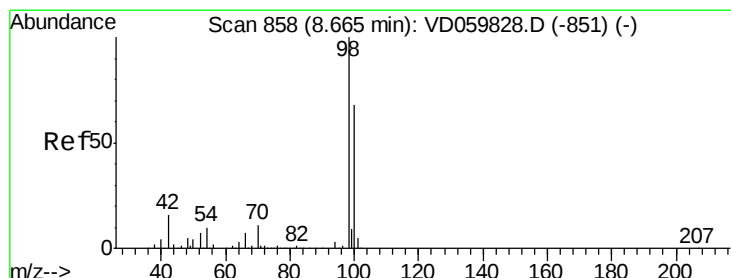
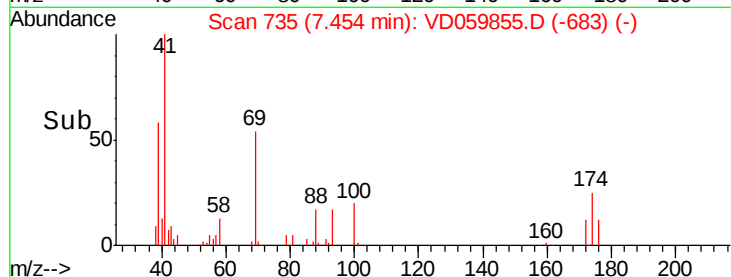
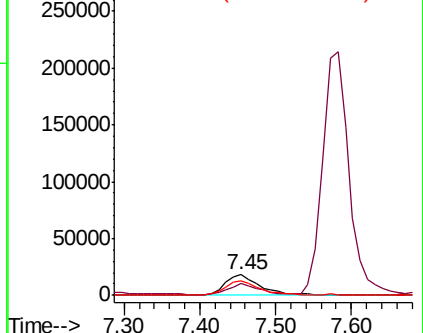
58 72.0 52.4 78.6



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 1029.482 ug/l

RT: 8.67 min Scan# 859

Delta R.T. 0.01 min

Lab File: VD059855.D

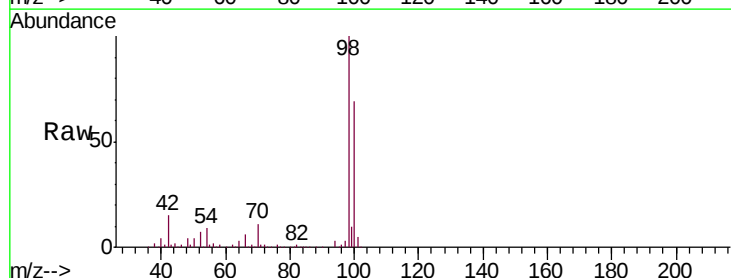
Acq: 21 Aug 2018 14:57

Tgt Ion: 98 Resp: 1348098

Ion Ratio Lower Upper

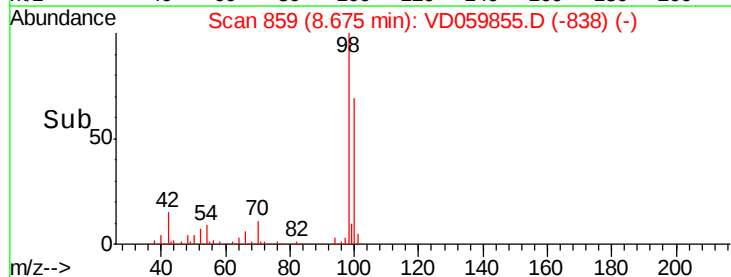
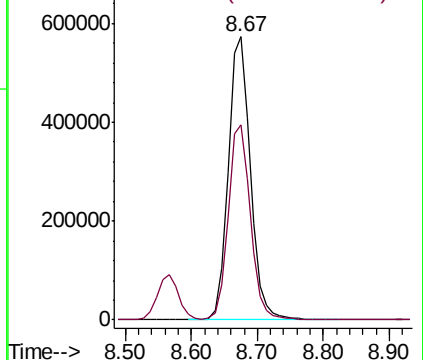
98 100

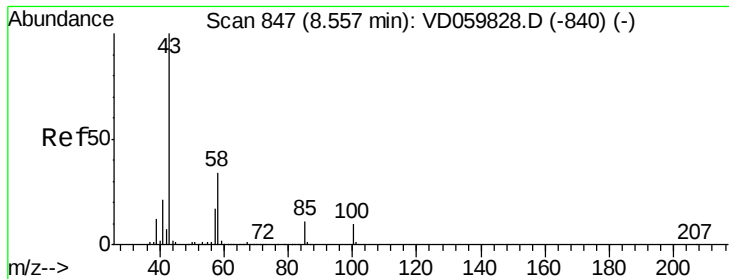
100 69.1 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 268.835 ug/l

RT: 8.57 min Scan# 848

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

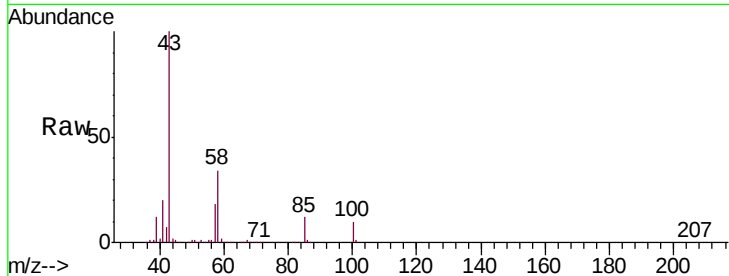
RA-081518-FL-031MS

Tgt Ion: 43 Resp: 2168649

Ion Ratio Lower Upper

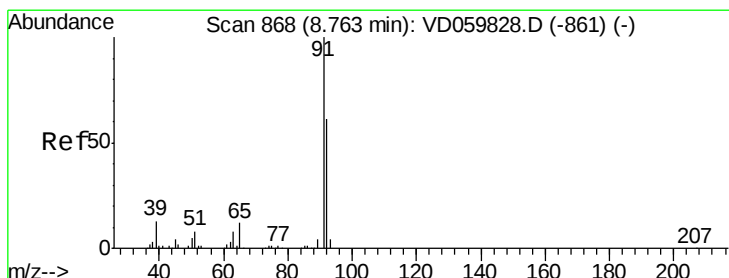
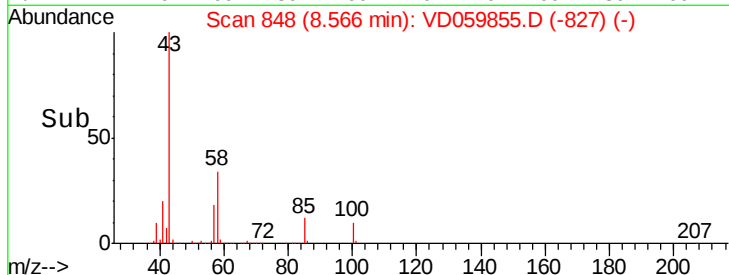
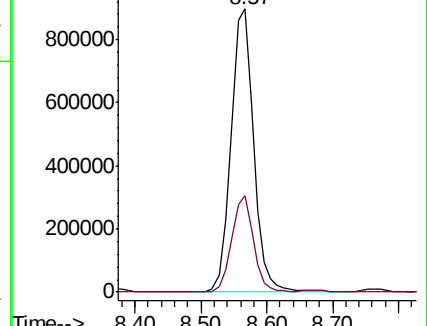
43 100

58 34.0 27.0 40.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 49.375 ug/l

RT: 8.76 min Scan# 868

Delta R.T. -0.00 min

Lab File: VD059855.D

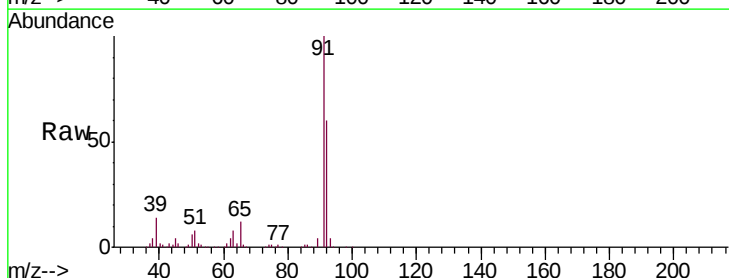
Acq: 21 Aug 2018 14:57

Tgt Ion: 92 Resp: 951907

Ion Ratio Lower Upper

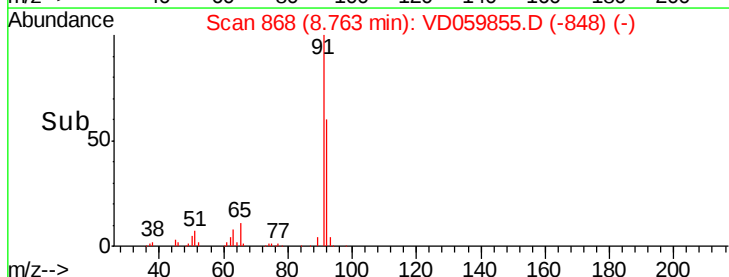
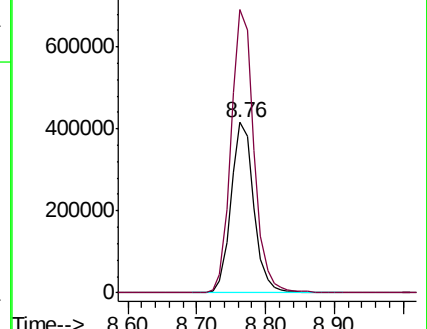
92 100

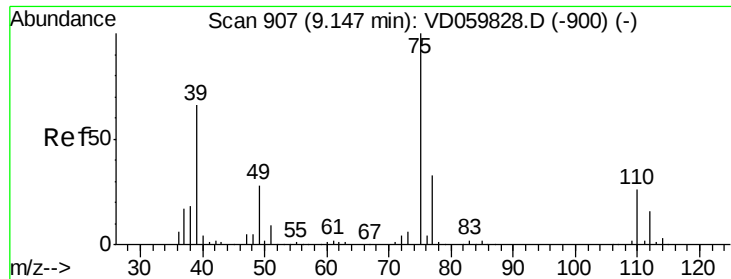
91 165.9 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

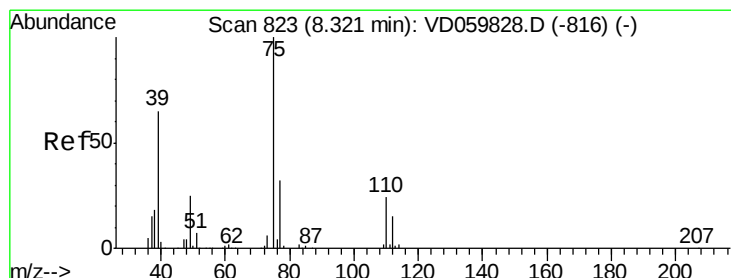
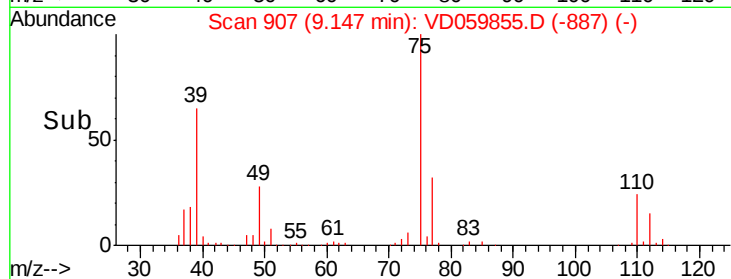
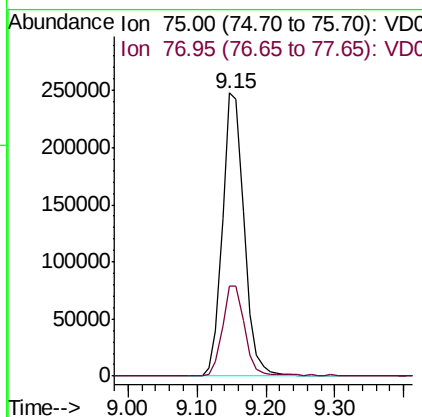
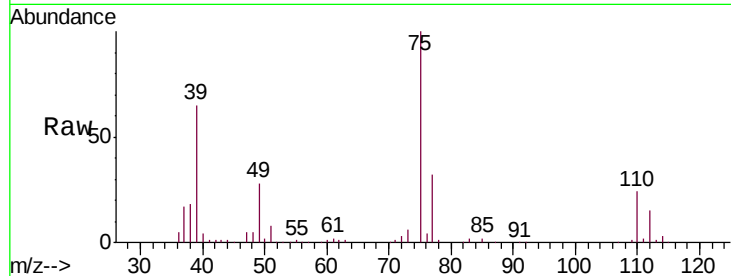




#53
 t-1,3-Dichloropropene
 Concen: 48.063 ug/l
 RT: 9.15 min Scan# 907
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

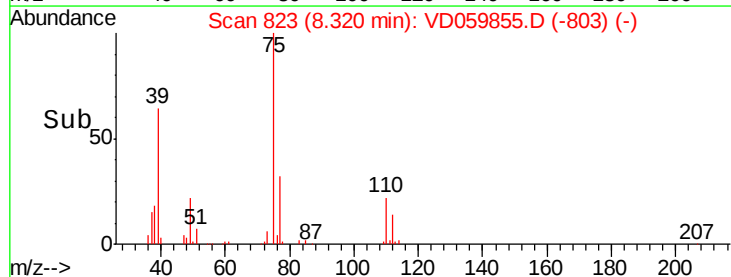
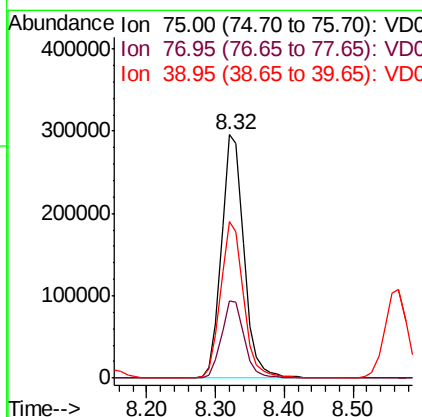
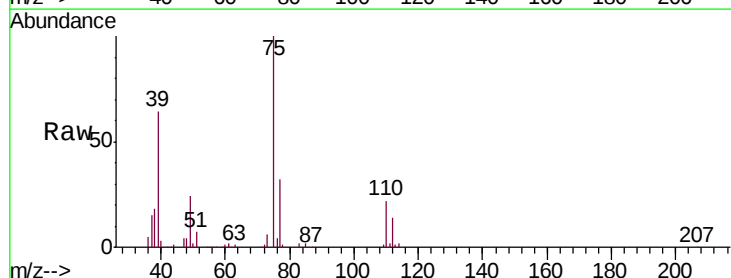
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081518-FL-031MS

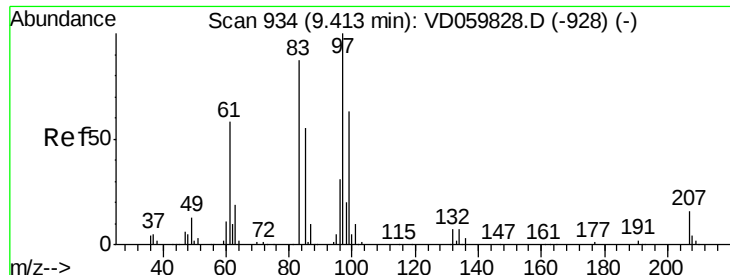
Tgt Ion: 75 Resp: 538835
 Ion Ratio Lower Upper
 75 100
 77 32.0 26.3 39.5



#54
 cis-1,3-Dichloropropene
 Concen: 49.857 ug/l
 RT: 8.32 min Scan# 823
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Tgt Ion: 75 Resp: 669394
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.8 38.8
 39 64.2 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 47.879 ug/l

RT: 9.42 min Scan# 935

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

Tgt Ion: 97 Resp: 333223

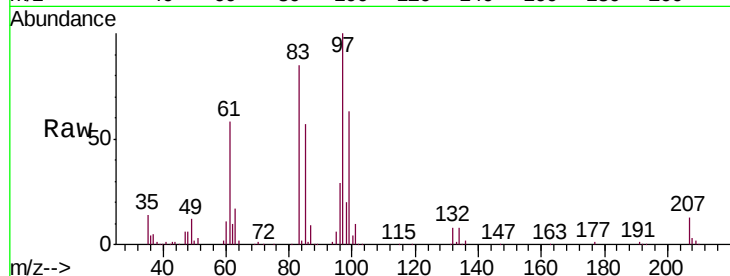
Ion Ratio Lower Upper

97 100

83 85.3 69.2 103.8

85 56.7 44.3 66.5

99 63.1 50.6 76.0

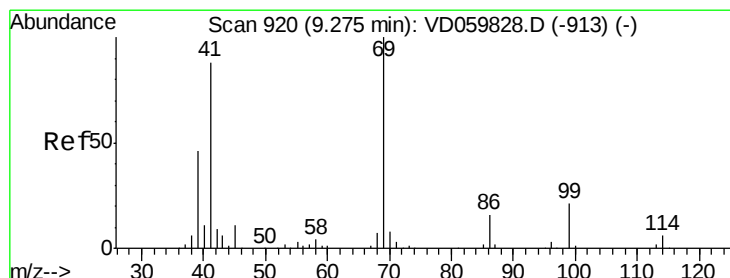
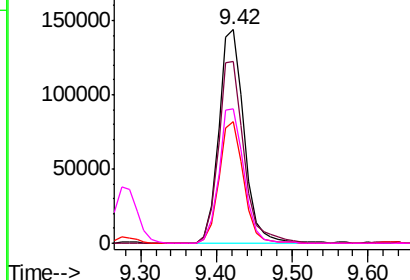
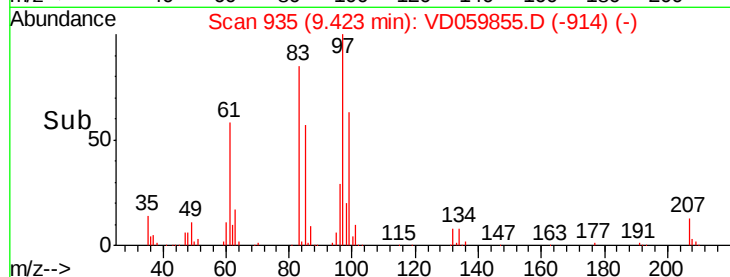


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 47.436 ug/l

RT: 9.27 min Scan# 920

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

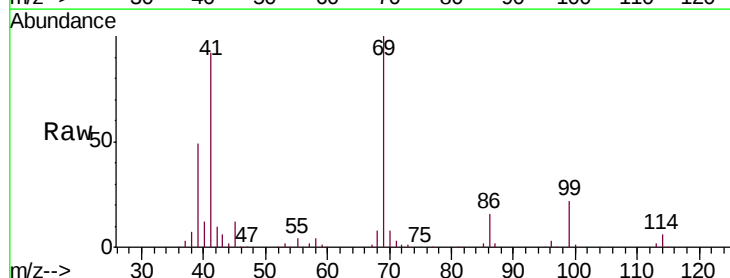
Tgt Ion: 69 Resp: 380684

Ion Ratio Lower Upper

69 100

41 92.2 71.0 106.4

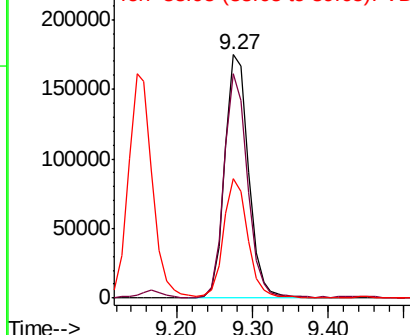
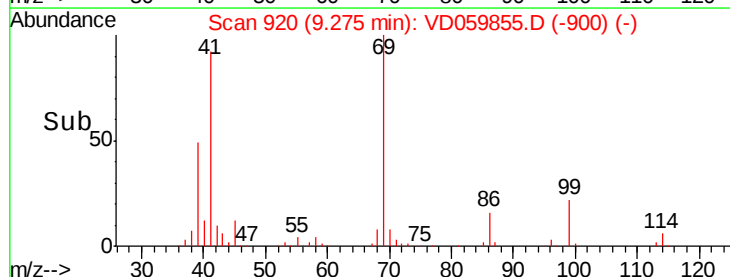
39 49.0 38.0 57.0

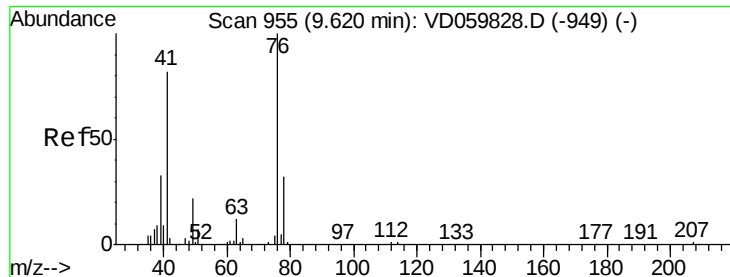


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 49.677 ug/l

RT: 9.63 min Scan# 956

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

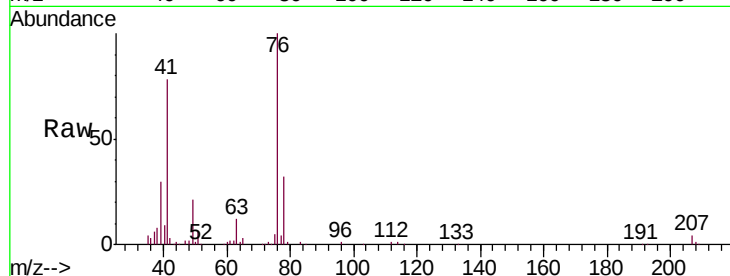
RA-081518-FL-031MS

Tgt Ion: 76 Resp: 505494

Ion Ratio Lower Upper

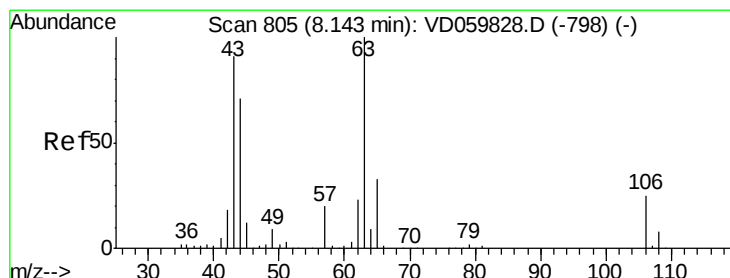
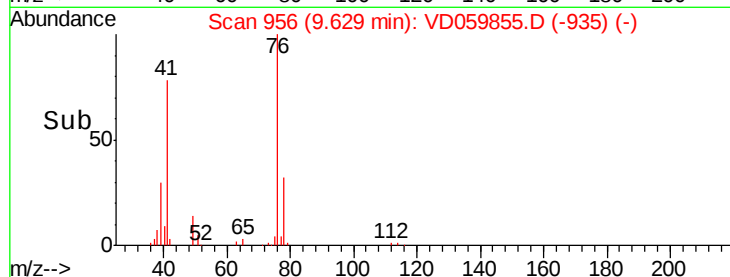
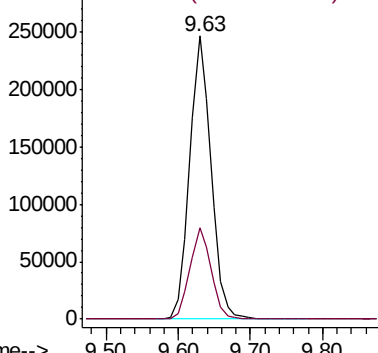
76 100

78 32.4 25.5 38.3



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 214.120 ug/l

RT: 8.15 min Scan# 806

Delta R.T. 0.01 min

Lab File: VD059855.D

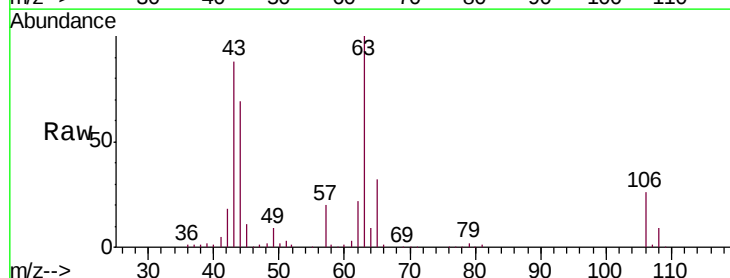
Acq: 21 Aug 2018 14:57

Tgt Ion: 63 Resp: 960665

Ion Ratio Lower Upper

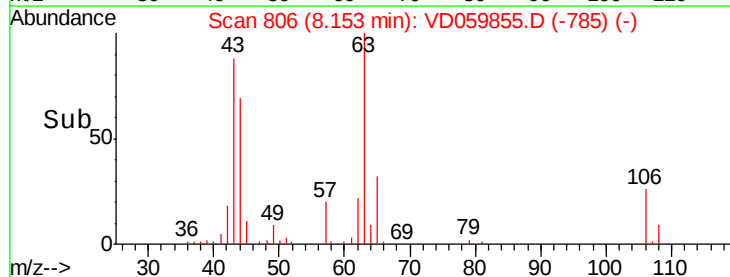
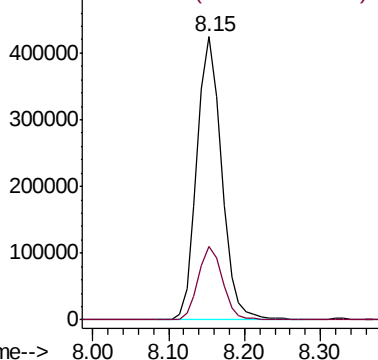
63 100

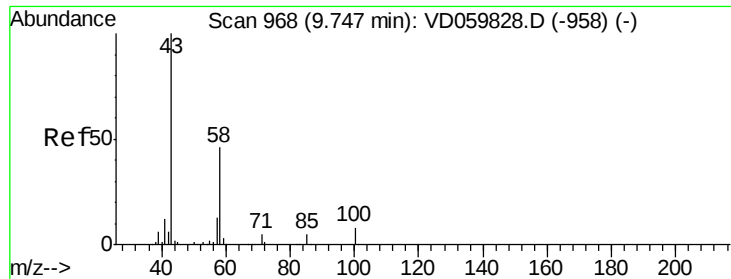
106 25.8 19.6 29.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

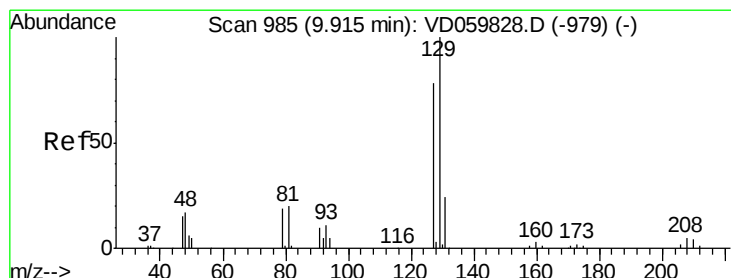
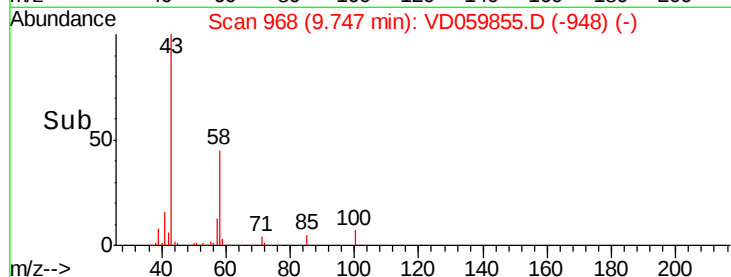
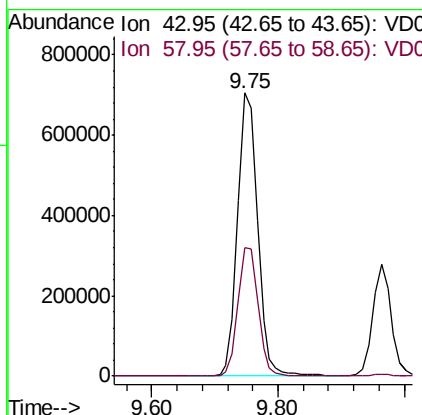
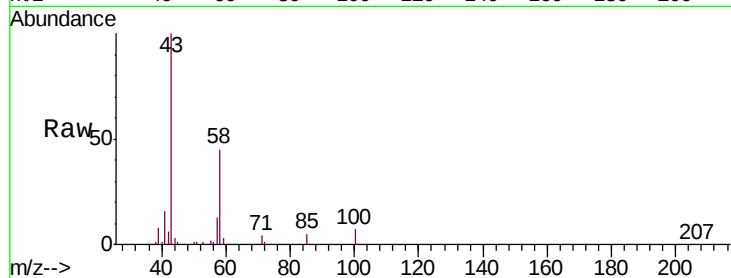




#59
2-Hexanone
Concen: 258.072 ug/l
RT: 9.75 min Scan# 968
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

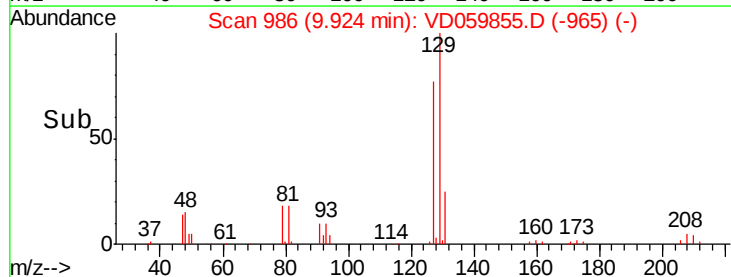
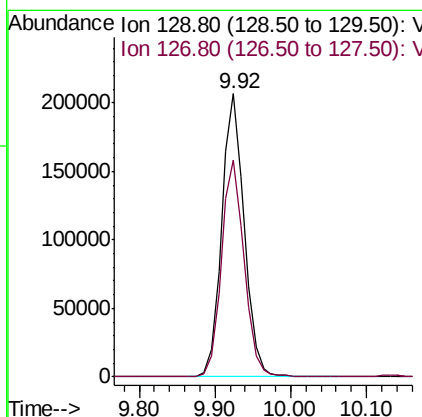
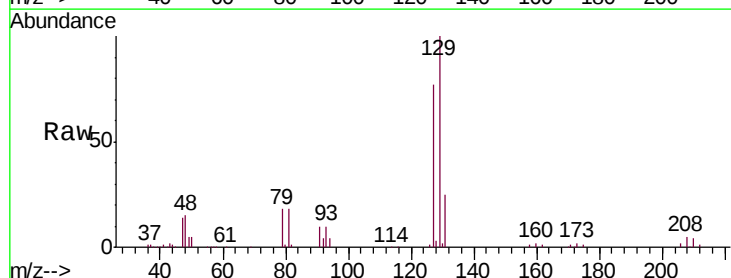
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

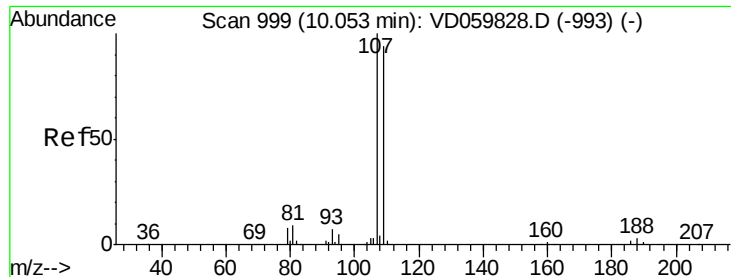
Tgt Ion: 43 Resp: 1538803
Ion Ratio Lower Upper
43 100
58 45.3 23.1 69.2



#60
Dibromochloromethane
Concen: 47.442 ug/l
RT: 9.92 min Scan# 986
Delta R.T. 0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion: 129 Resp: 425164
Ion Ratio Lower Upper
129 100
127 76.6 39.0 116.9





#61

1,2-Dibromoethane

Concen: 46.623 ug/l

RT: 10.06 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

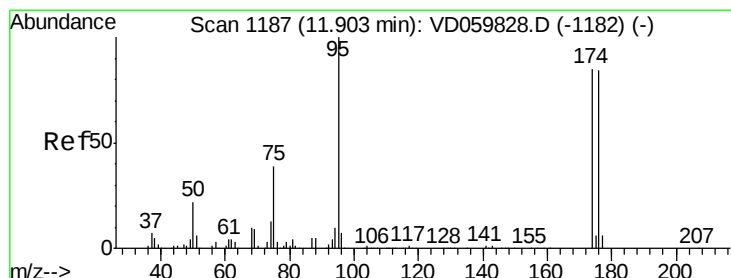
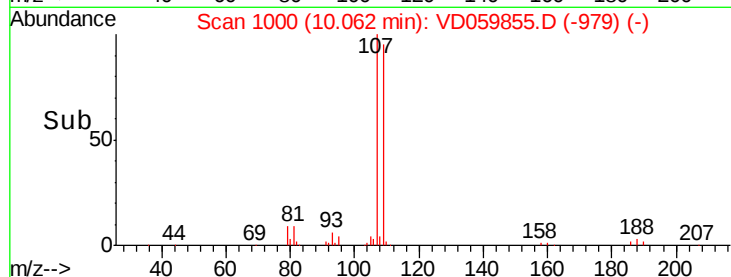
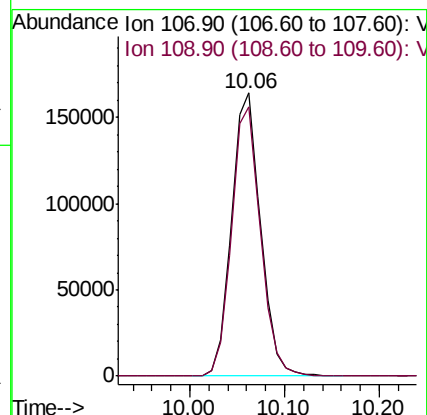
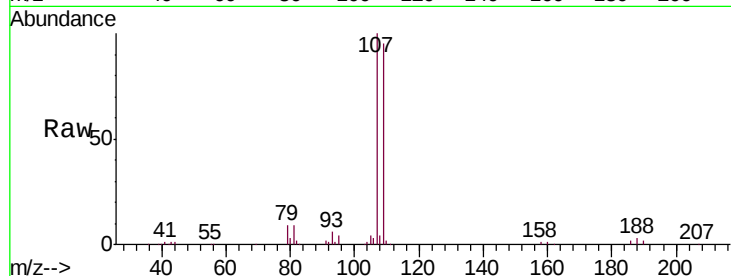
RA-081518-FL-031MS

Tgt Ion: 107 Resp: 346724

Ion Ratio Lower Upper

107 100

109 95.1 75.0 112.6



#62

4-Bromofluorobenzene

Concen: 46.623 ug/l

RT: 11.91 min Scan# 1188

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

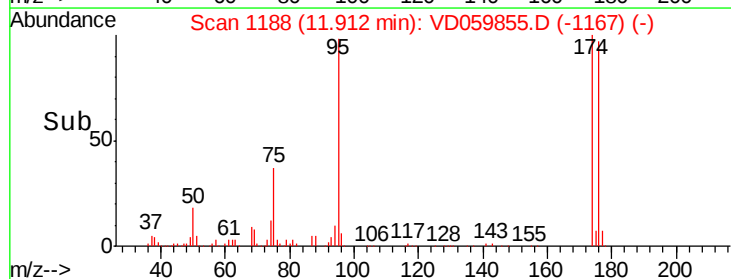
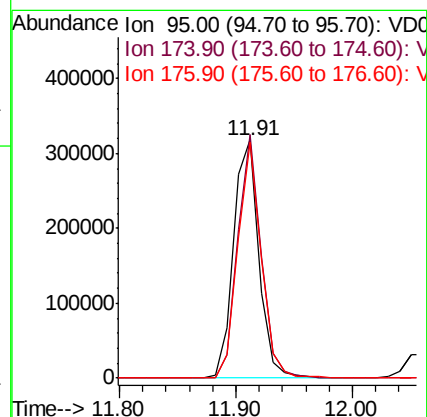
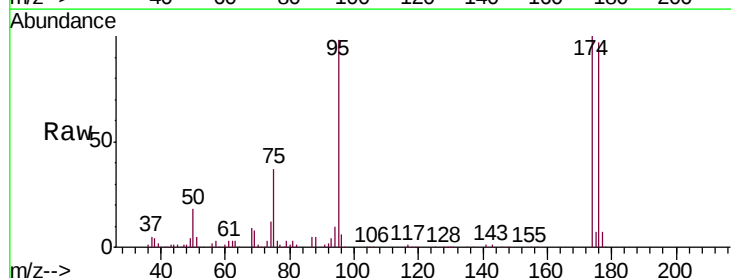
Tgt Ion: 95 Resp: 479761

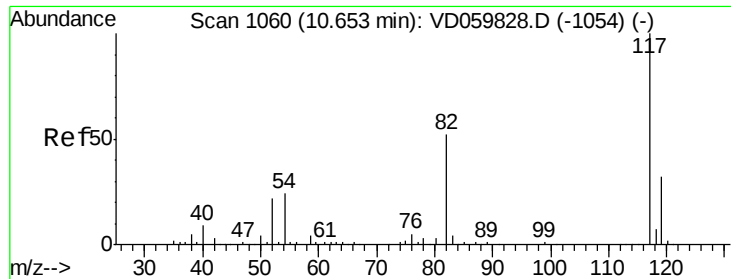
Ion Ratio Lower Upper

95 100

174 102.4 0.0 169.2

176 99.0 0.0 168.0

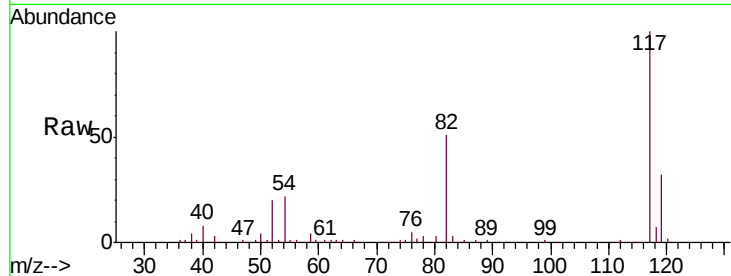




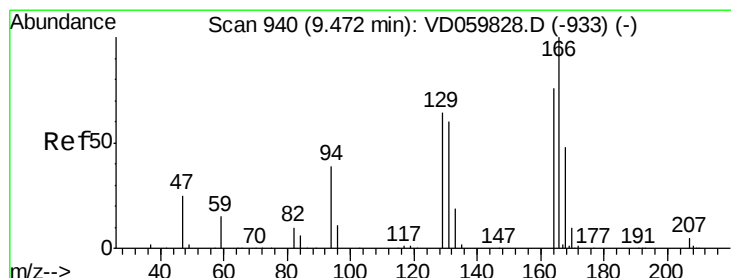
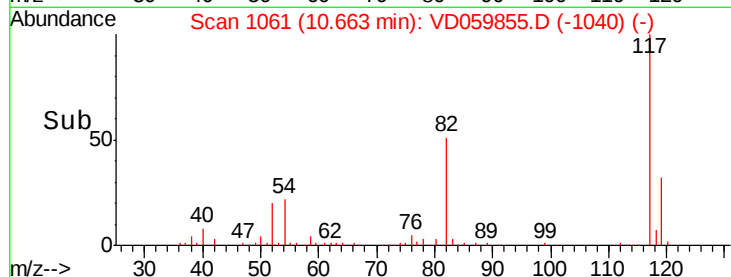
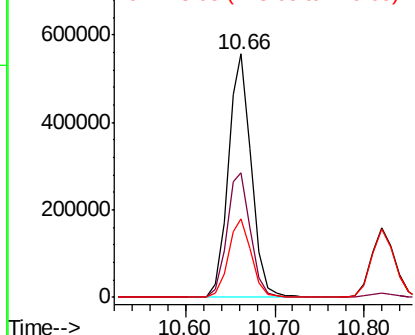
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.66 min Scan# 1061
Delta R.T. 0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

Tgt Ion:117 Resp: 1010623
Ion Ratio Lower Upper
117 100
82 51.2 41.6 62.4
119 32.4 25.6 38.4

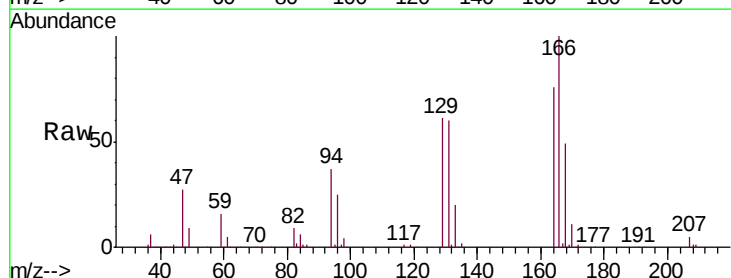


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

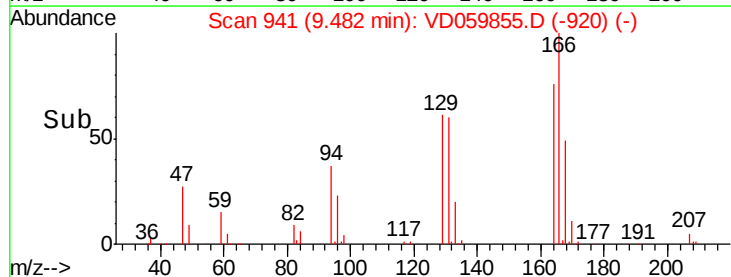
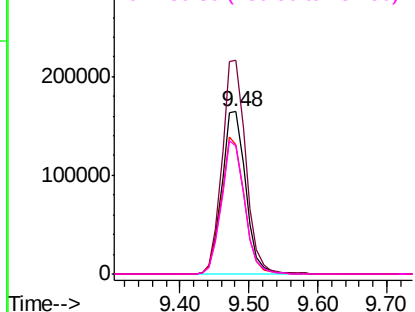


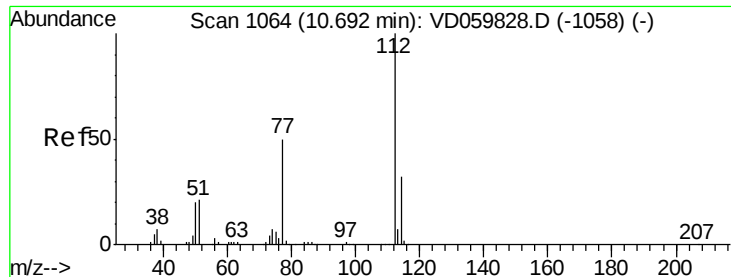
#64
Tetrachloroethene
Concen: 53.160 ug/l
RT: 9.48 min Scan# 941
Delta R.T. 0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion:164 Resp: 393359
Ion Ratio Lower Upper
164 100
166 131.8 104.9 157.3
129 80.1 66.7 100.1
131 78.9 63.1 94.7



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

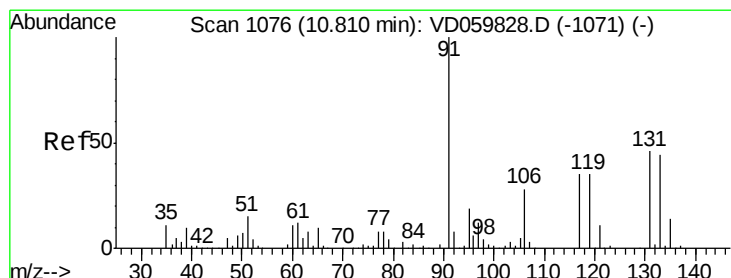
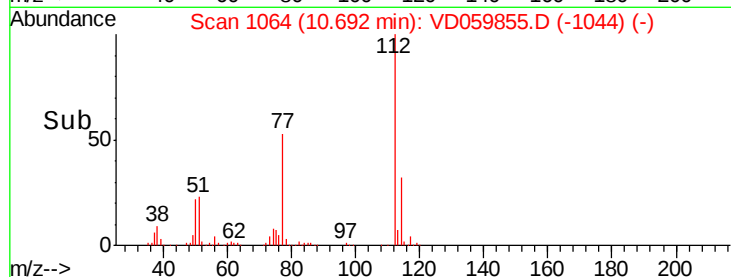
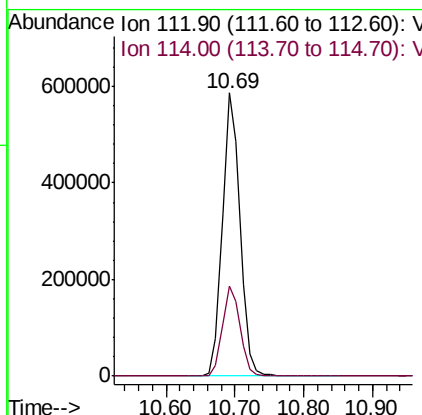
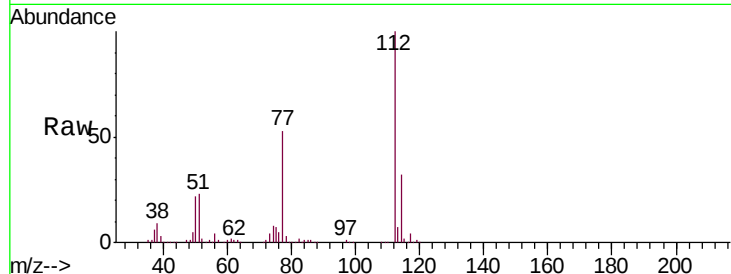




#65
Chlorobenzene
Concen: 53.226 ug/l
RT: 10.69 min Scan# 1064
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

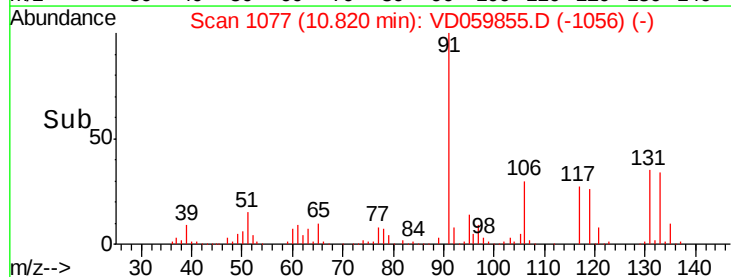
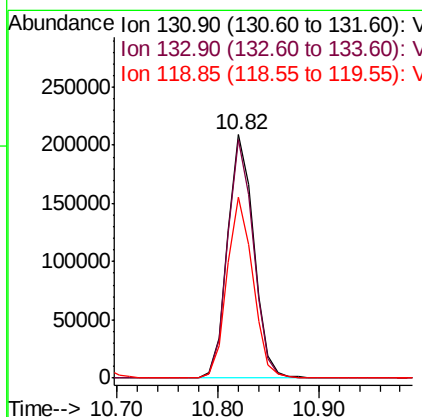
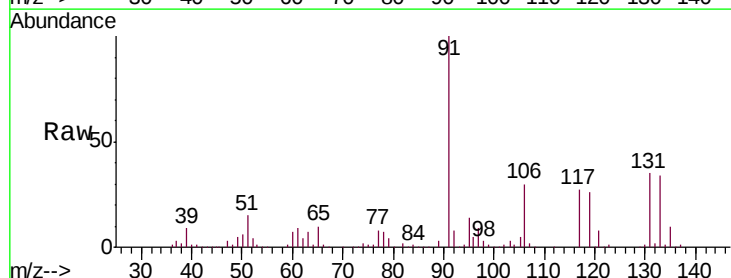
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

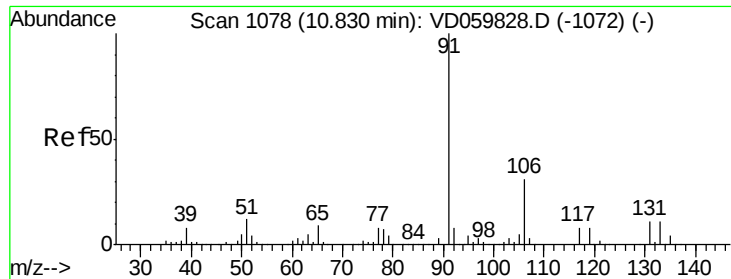
Tgt Ion:112 Resp: 1037451
Ion Ratio Lower Upper
112 100
114 32.0 25.7 38.5



#66
1,1,1,2-Tetrachloroethane
Concen: 56.453 ug/l
RT: 10.82 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion:131 Resp: 375546
Ion Ratio Lower Upper
131 100
133 97.9 47.1 141.4
119 74.4 37.5 112.7

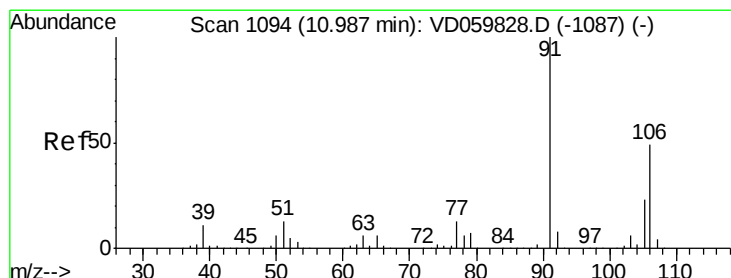
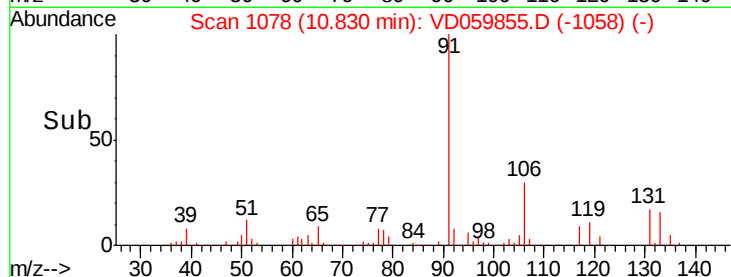
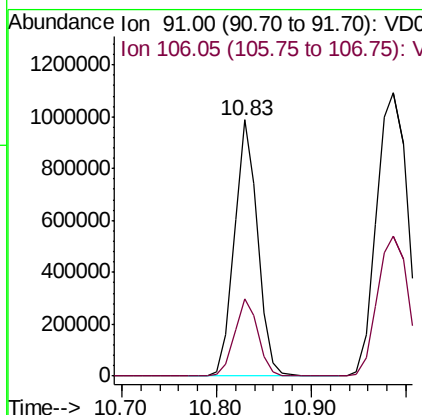
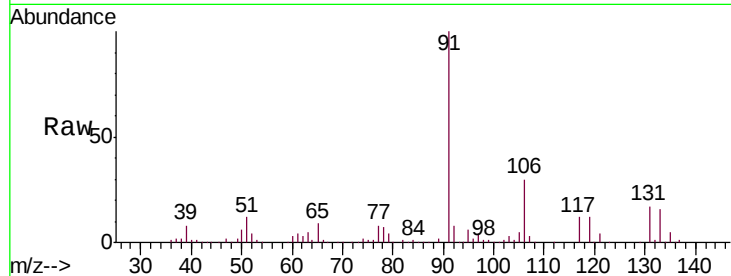




#67
Ethyl Benzene
Concen: 53.312 ug/l
RT: 10.83 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

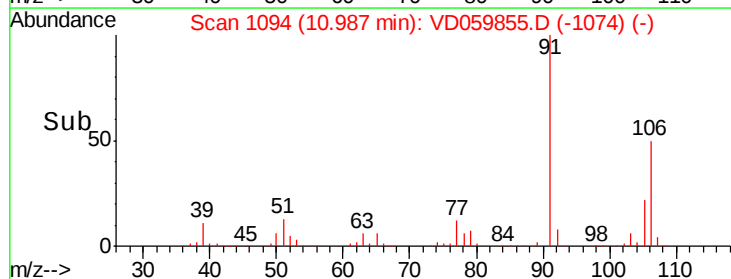
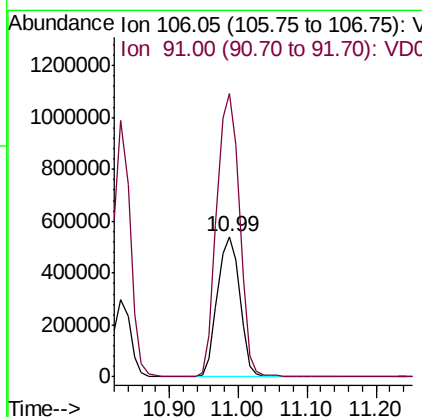
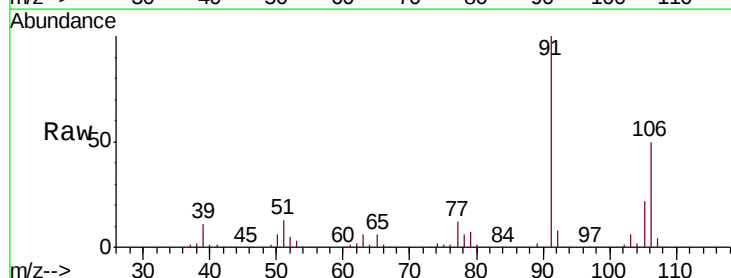
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

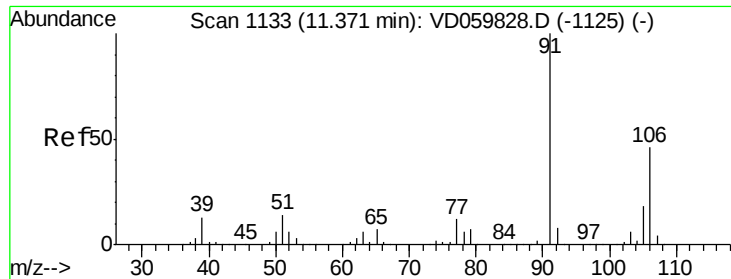
Tgt Ion: 91 Resp: 1676808
Ion Ratio Lower Upper
91 100
106 30.2 25.1 37.7



#68
m/p-Xylenes
Concen: 105.064 ug/l
RT: 10.99 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion: 106 Resp: 1221990
Ion Ratio Lower Upper
106 100
91 201.4 161.8 242.8

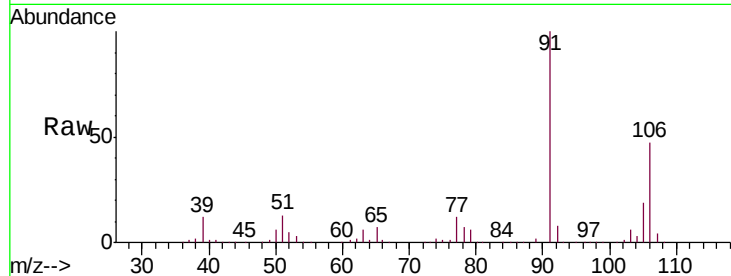




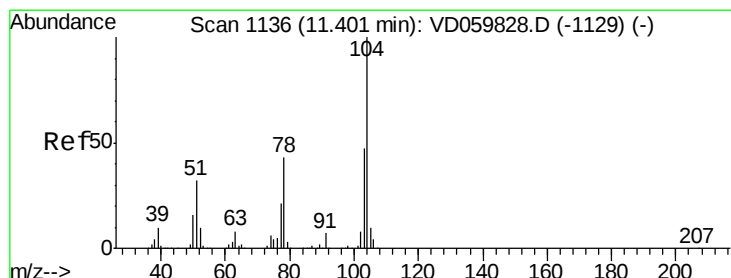
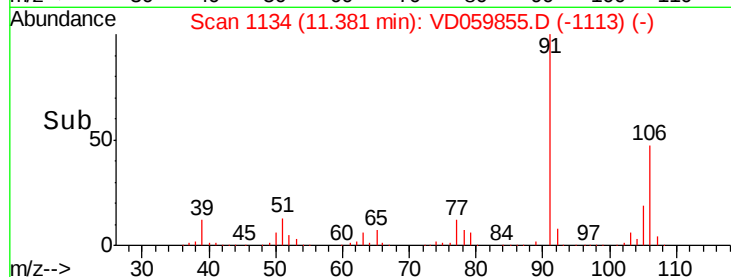
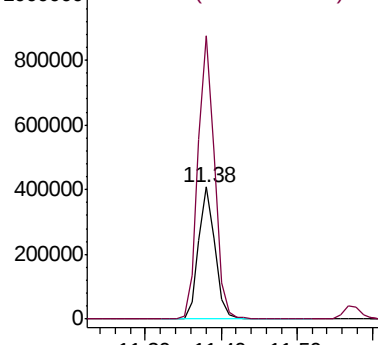
#69
o-Xylene
Concen: 54.535 ug/l
RT: 11.38 min Scan# 1134
Delta R.T. 0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

Tgt Ion:106 Resp: 615924
Ion Ratio Lower Upper
106 100
91 213.9 108.5 325.3

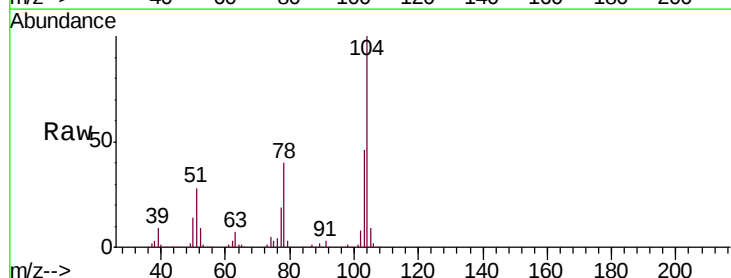


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

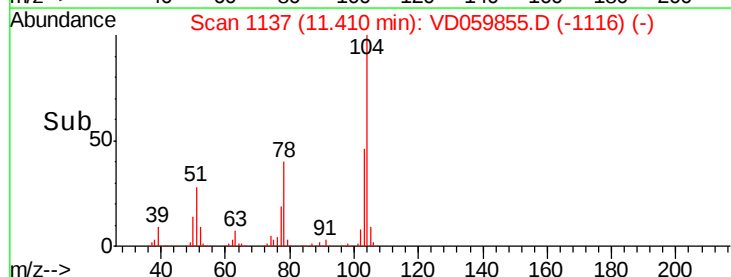
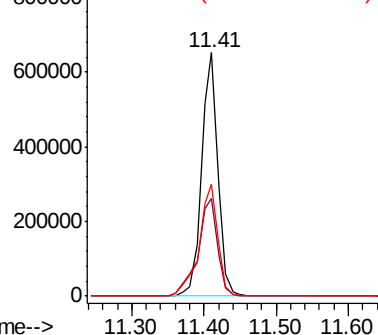


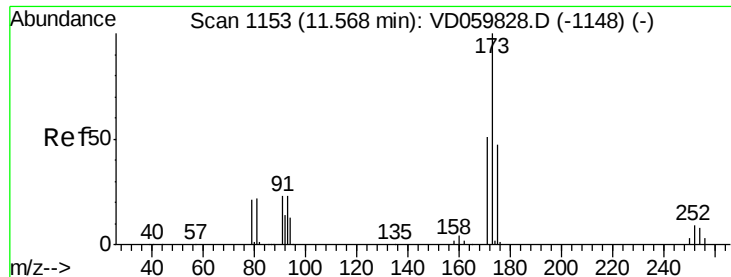
#70
Styrene
Concen: 51.693 ug/l
RT: 11.41 min Scan# 1137
Delta R.T. 0.01 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion:104 Resp: 1016629
Ion Ratio Lower Upper
104 100
78 40.0 34.6 52.0
103 46.0 37.8 56.6



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 50.692 ug/l

RT: 11.58 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

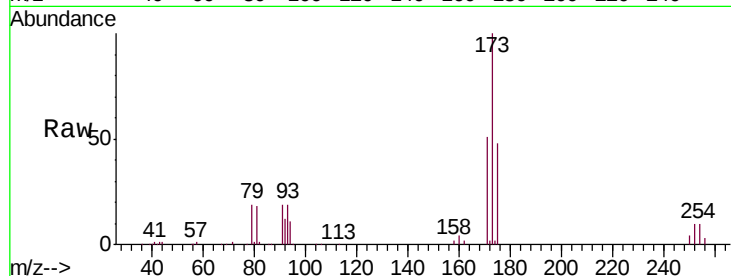
Tgt Ion:173 Resp: 303040

Ion Ratio Lower Upper

173 100

175 48.5 23.7 71.1

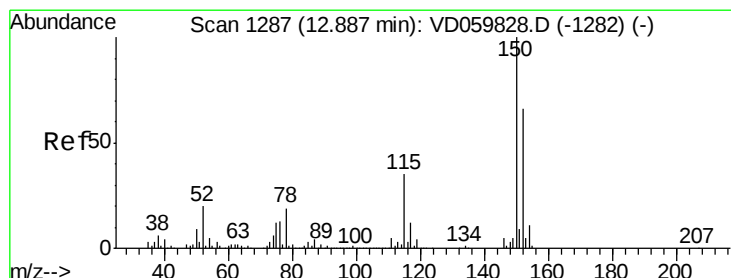
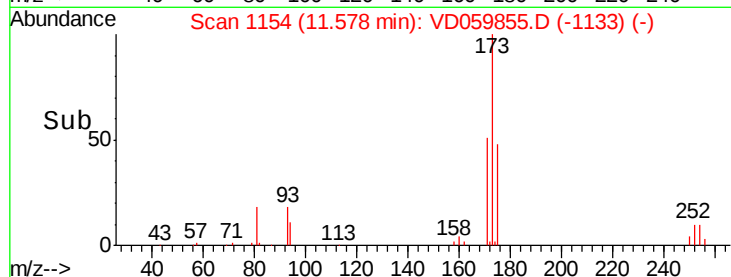
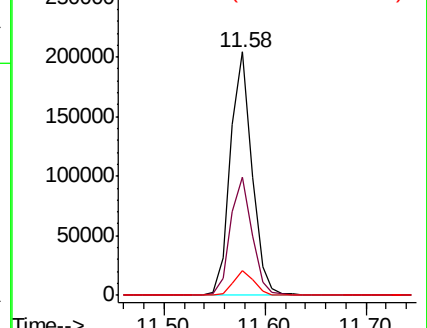
254 10.1 6.7 10.1#



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.89 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

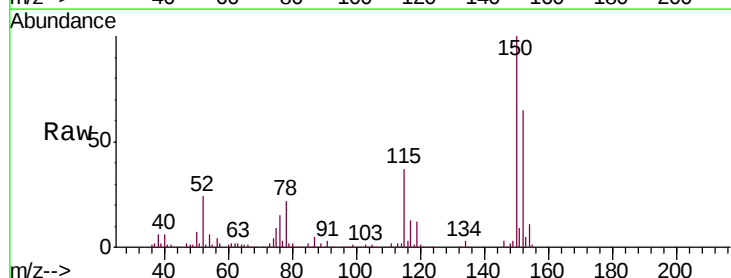
Tgt Ion:152 Resp: 427989

Ion Ratio Lower Upper

152 100

115 57.6 26.9 80.6

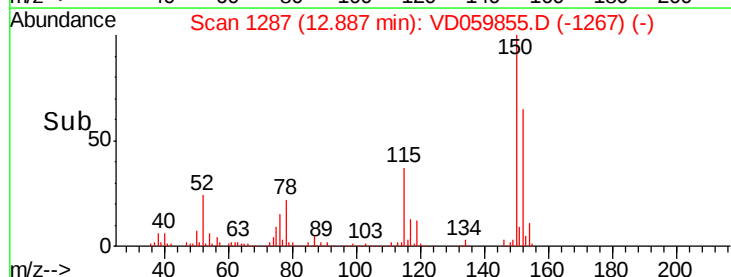
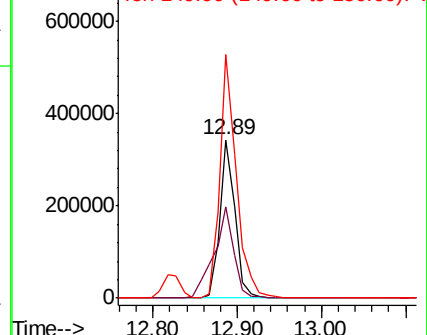
150 153.9 0.0 306.8

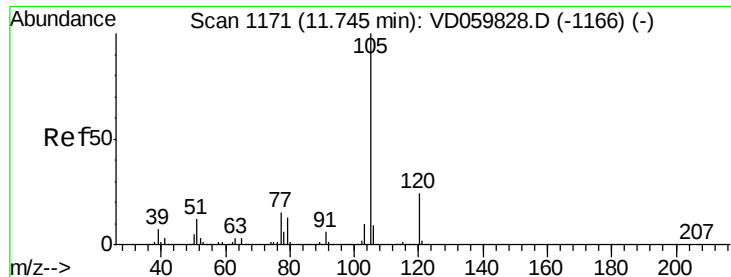


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 53.292 ug/l

RT: 11.75 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

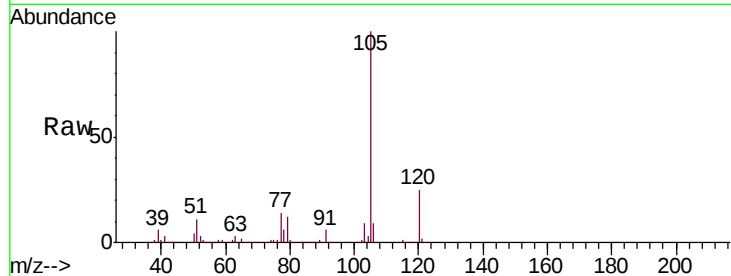
RA-081518-FL-031MS

Tgt Ion:105 Resp: 1554366

Ion Ratio Lower Upper

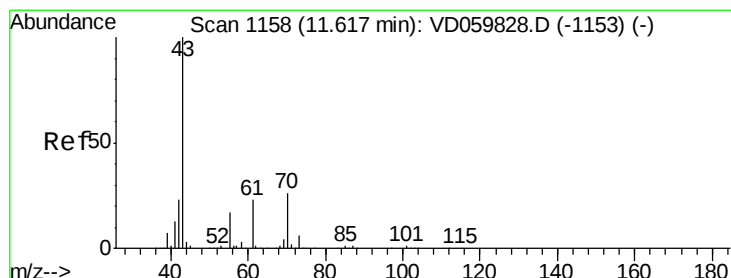
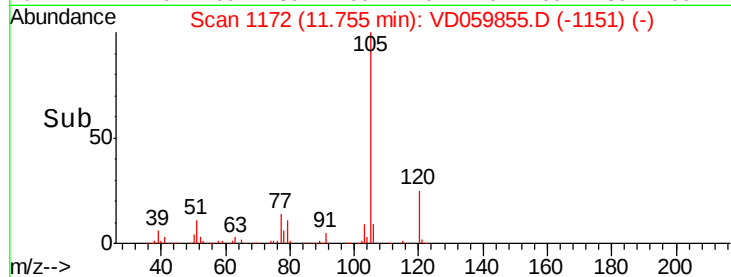
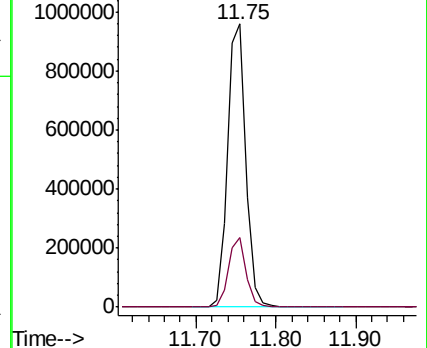
105 100

120 24.6 11.9 35.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 46.562 ug/l

RT: 11.63 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Tgt Ion: 43 Resp: 608114

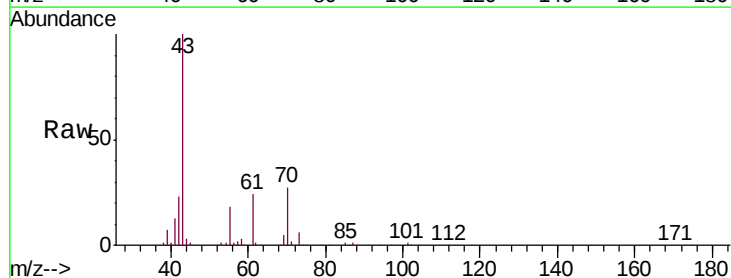
Ion Ratio Lower Upper

43 100

70 27.2 20.5 30.7

55 17.7 13.7 20.5

61 23.6 18.0 27.0

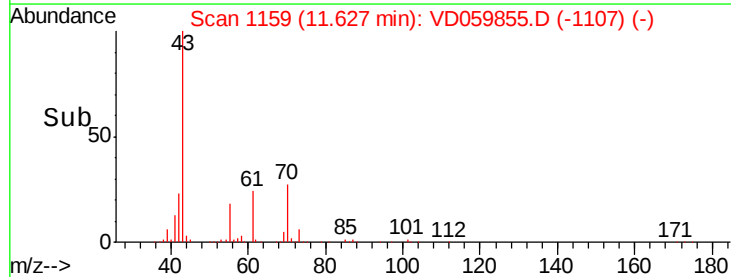
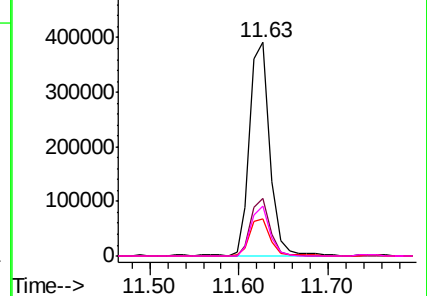


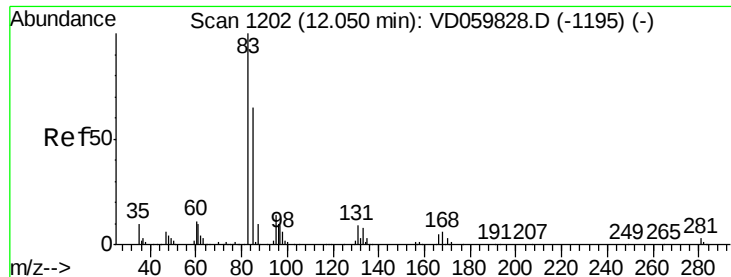
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 54.568 ug/l

RT: 12.05 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

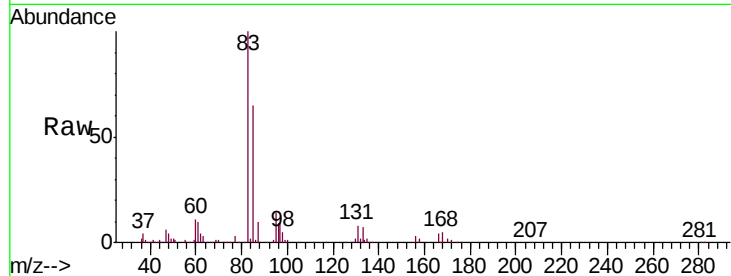
Tgt Ion: 83 Resp: 375148

Ion Ratio Lower Upper

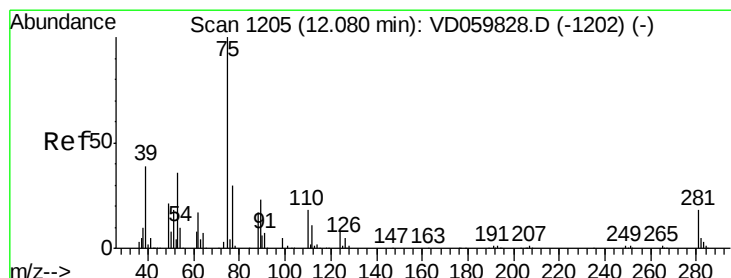
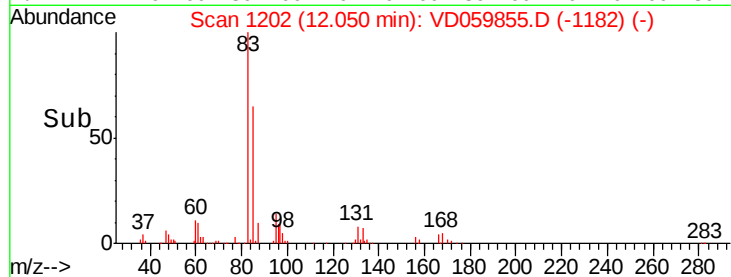
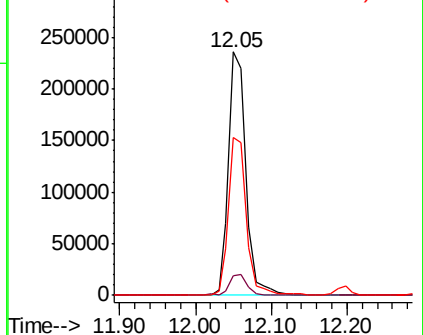
83 100

131 8.2 4.3 13.1

85 64.8 32.5 97.5



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 52.893 ug/l

RT: 12.09 min Scan# 1206

Delta R.T. 0.01 min

Lab File: VD059855.D

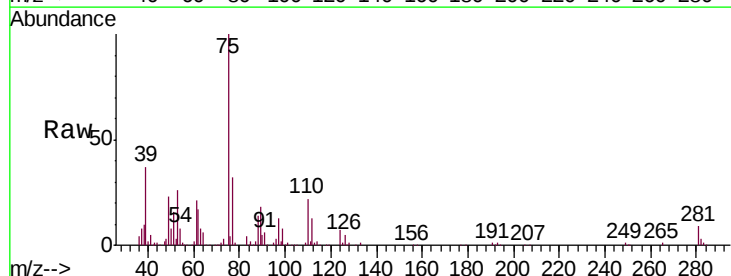
Acq: 21 Aug 2018 14:57

Tgt Ion: 75 Resp: 374515

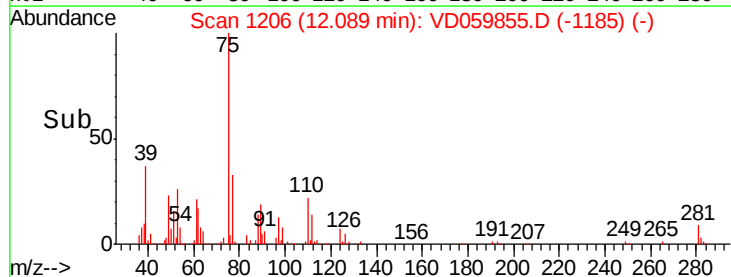
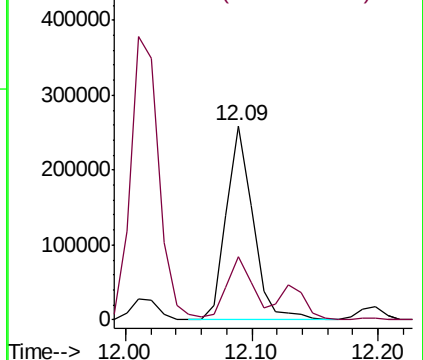
Ion Ratio Lower Upper

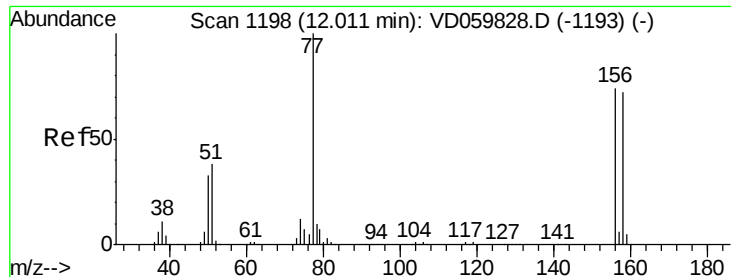
75 100

77 32.5 16.0 47.9



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 56.258 ug/l

RT: 12.02 min Scan# 1199

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

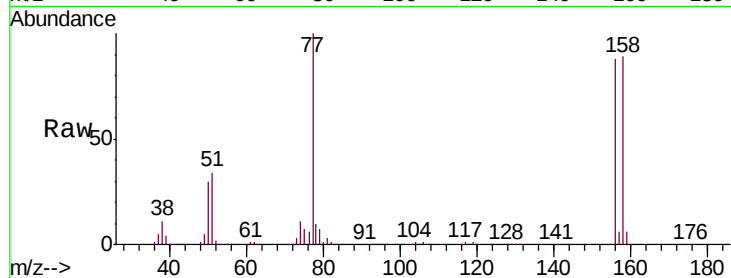
Tgt Ion:156 Resp: 456086

Ion Ratio Lower Upper

156 100

77 113.4 68.0 204.0

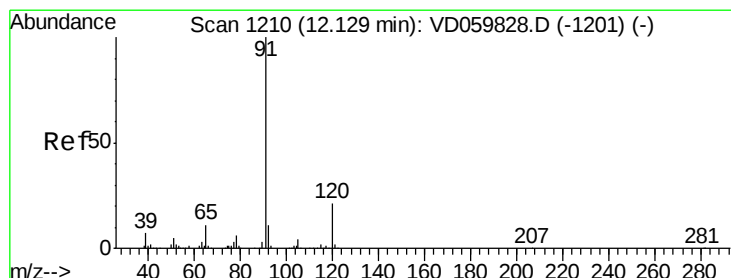
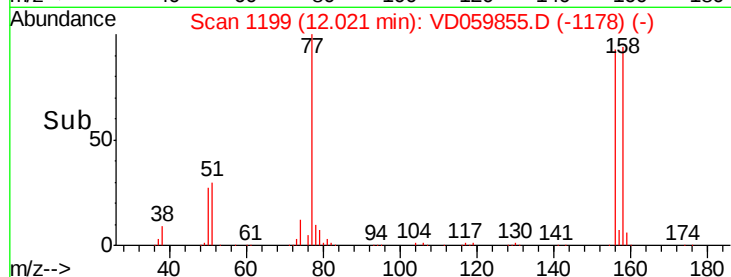
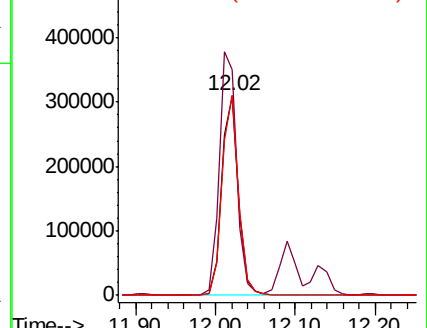
158 100.6 48.9 146.8



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 51.962 ug/l

RT: 12.13 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VD059855.D

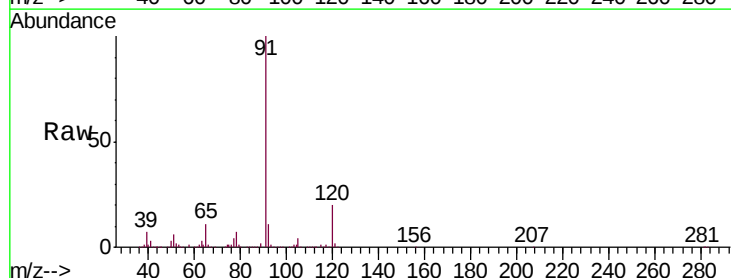
Acq: 21 Aug 2018 14:57

Tgt Ion: 91 Resp: 1882428

Ion Ratio Lower Upper

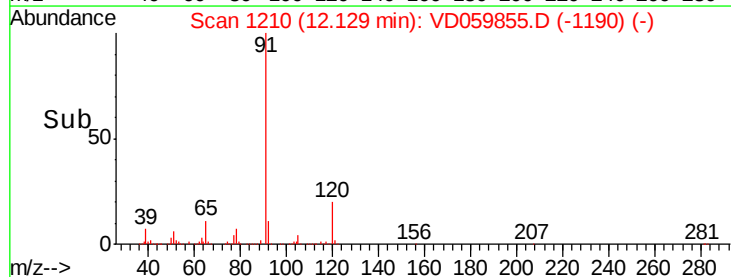
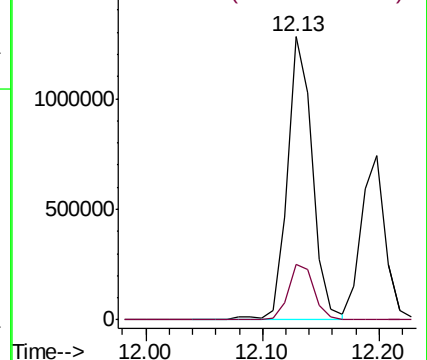
91 100

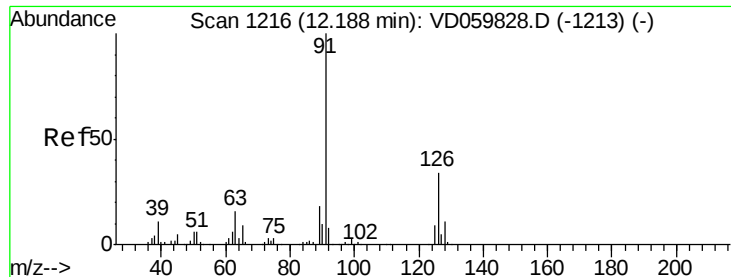
120 19.5 10.5 31.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 50.605 ug/l

RT: 12.20 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

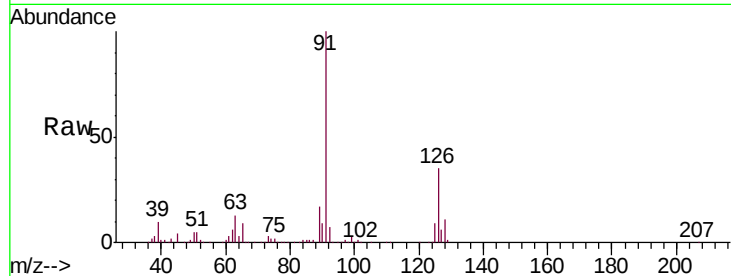
RA-081518-FL-031MS

Tgt Ion: 91 Resp: 1055442

Ion Ratio Lower Upper

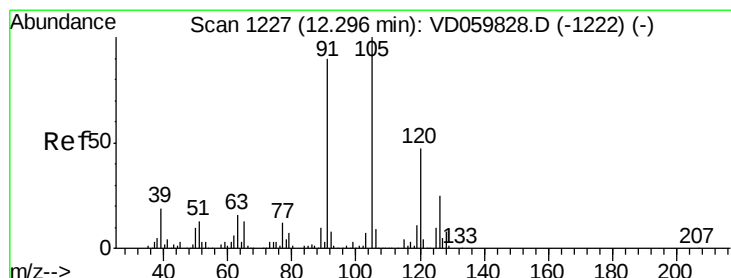
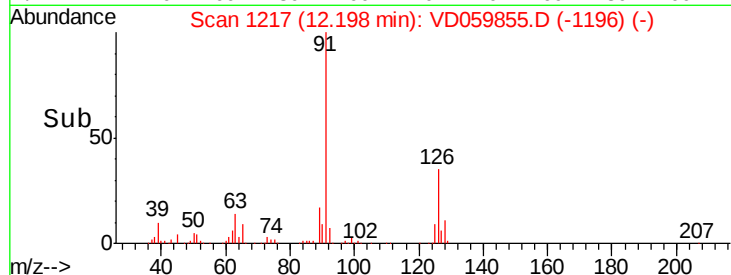
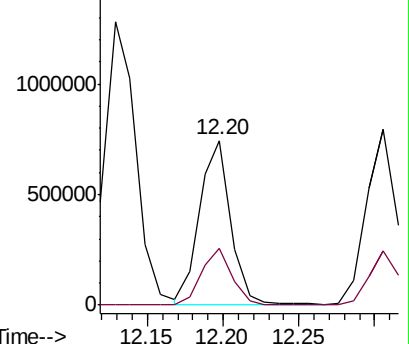
91 100

126 34.8 16.6 49.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 53.257 ug/l

RT: 12.30 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VD059855.D

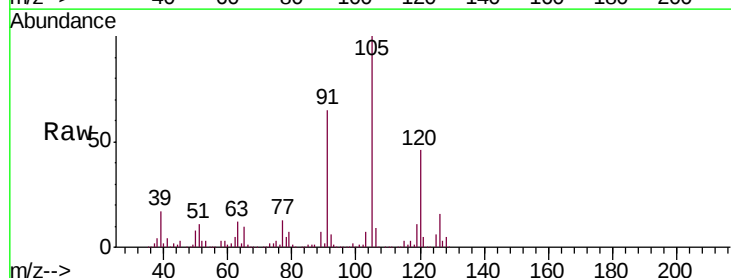
Acq: 21 Aug 2018 14:57

Tgt Ion: 105 Resp: 1122394

Ion Ratio Lower Upper

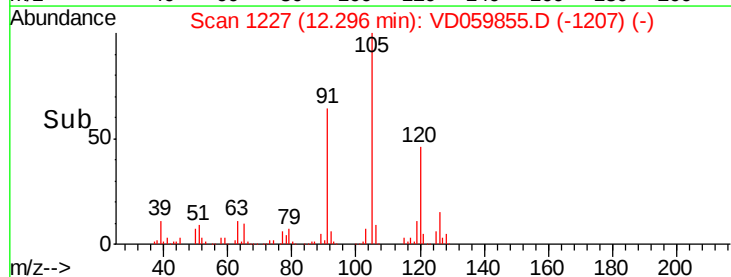
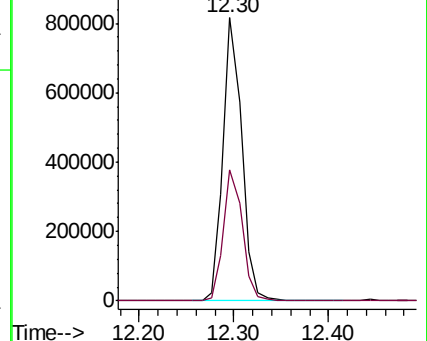
105 100

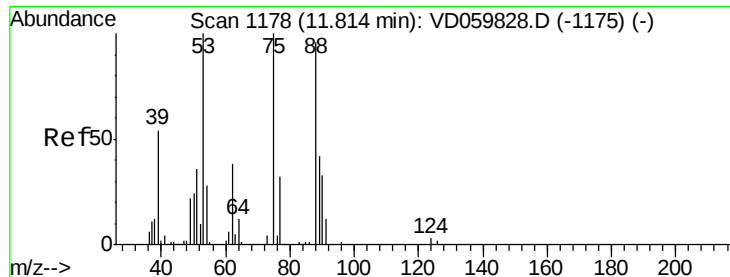
120 46.3 23.5 70.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 49.409 ug/l

RT: 11.82 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

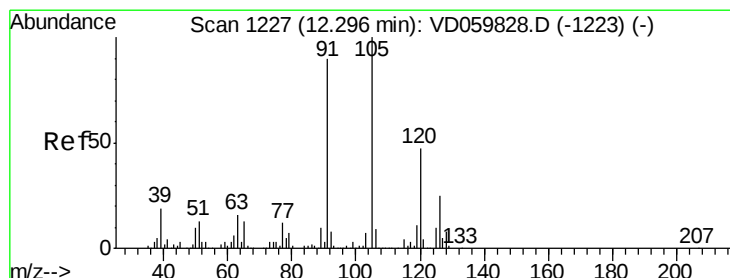
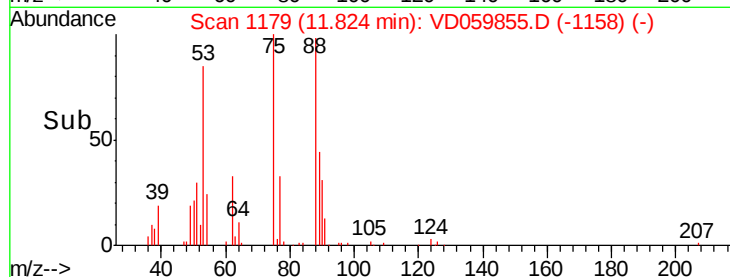
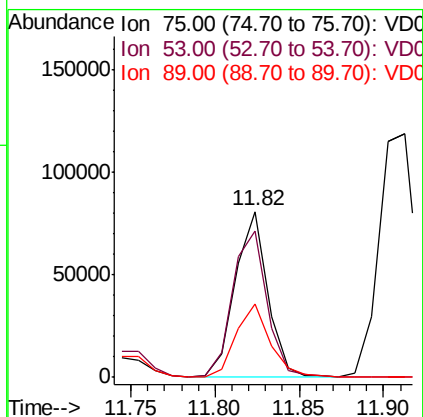
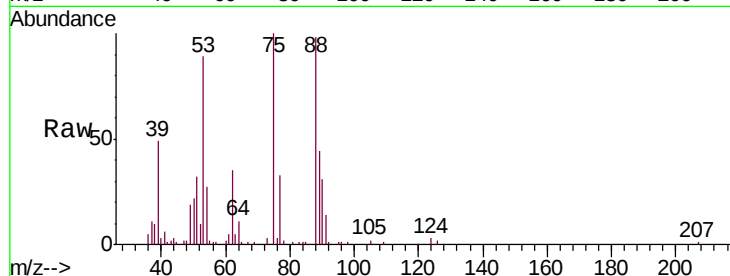
Tgt Ion: 75 Resp: 109364

Ion Ratio Lower Upper

75 100

53 88.7 80.7 121.1

89 44.1 33.9 50.9



#82

4-Chlorotoluene

Concen: 54.448 ug/l

RT: 12.31 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VD059855.D

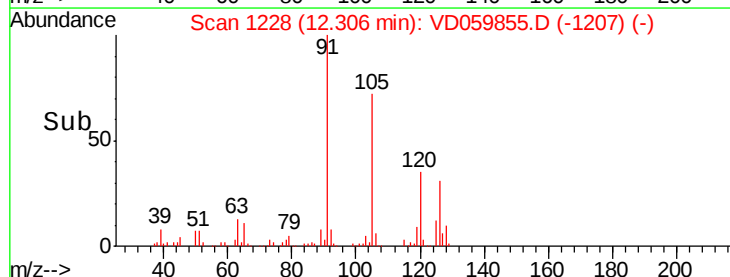
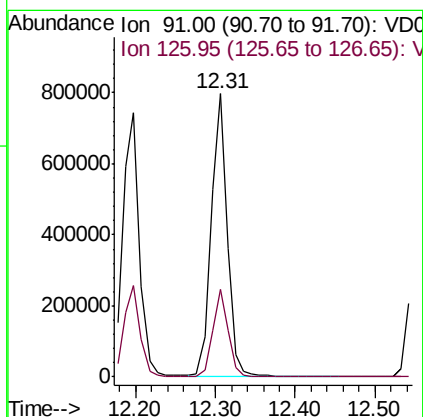
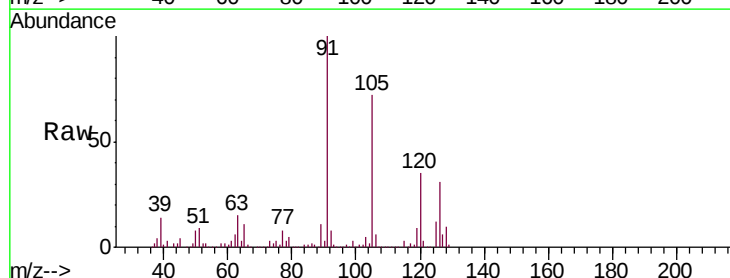
Acq: 21 Aug 2018 14:57

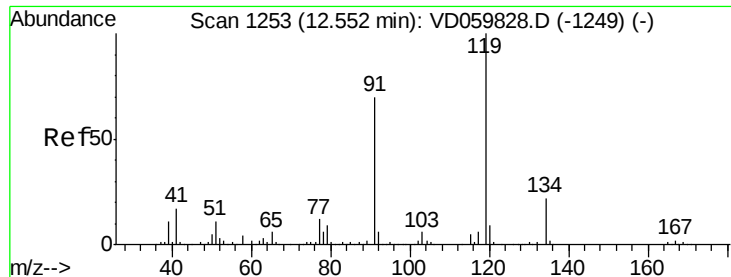
Tgt Ion: 91 Resp: 1116164

Ion Ratio Lower Upper

91 100

126 31.1 13.7 41.0

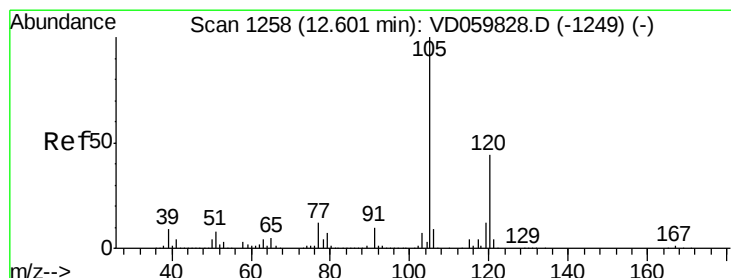
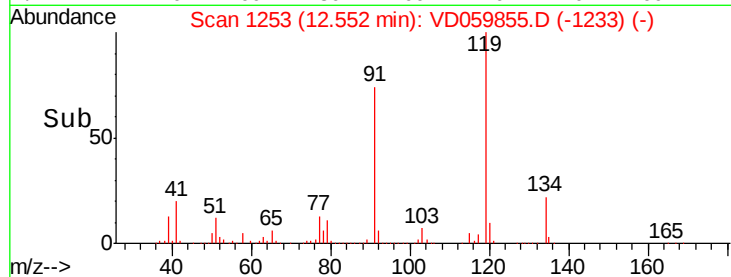
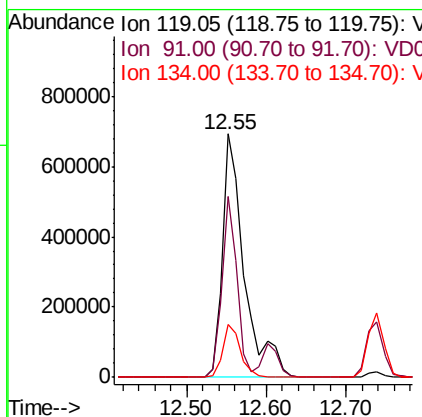
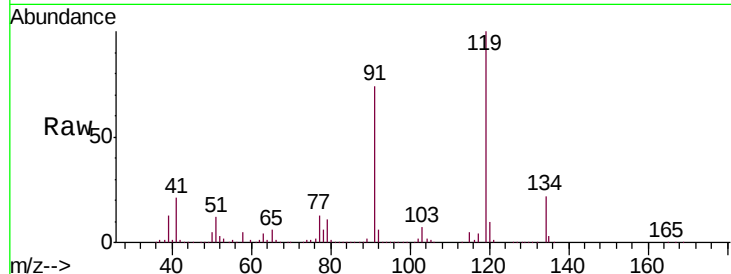




#83
 tert-Butylbenzene
 Concen: 58.159 ug/l
 RT: 12.55 min Scan# 1253
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

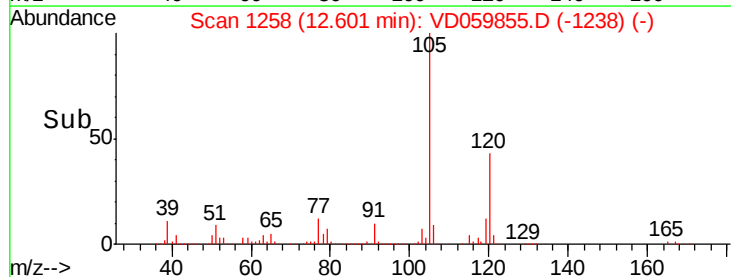
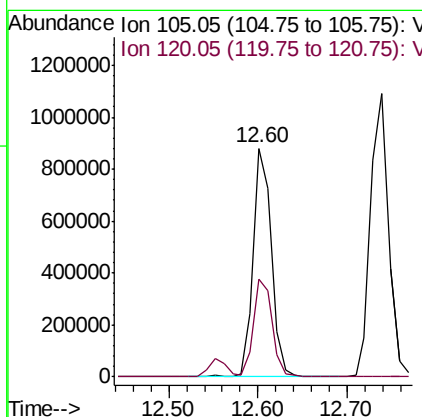
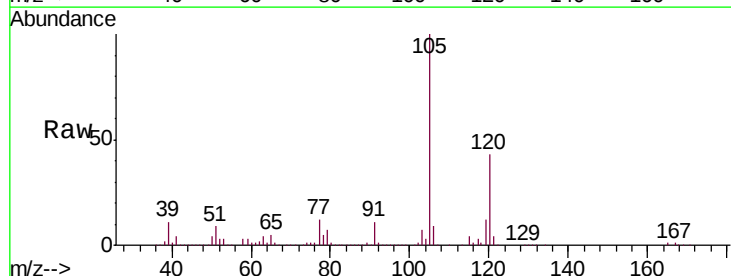
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081518-FL-031MS

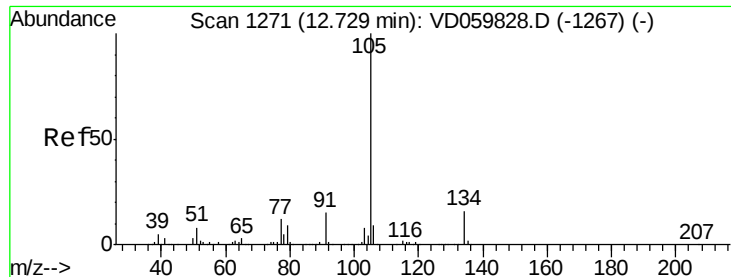
Tgt Ion:119 Resp: 1338116
 Ion Ratio Lower Upper
 119 100
 91 74.2 35.1 105.3
 134 21.7 11.0 33.0



#84
 1,2,4-Trimethylbenzene
 Concen: 51.472 ug/l
 RT: 12.60 min Scan# 1258
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Tgt Ion:105 Resp: 1235328
 Ion Ratio Lower Upper
 105 100
 120 42.7 22.0 66.0

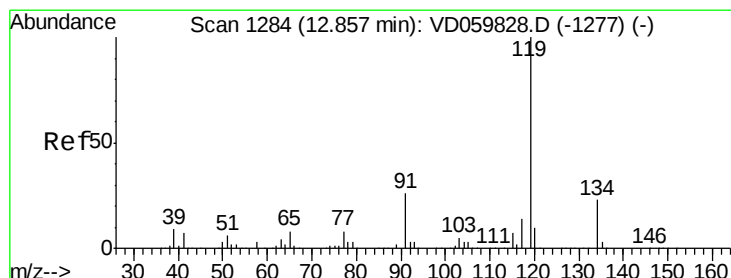
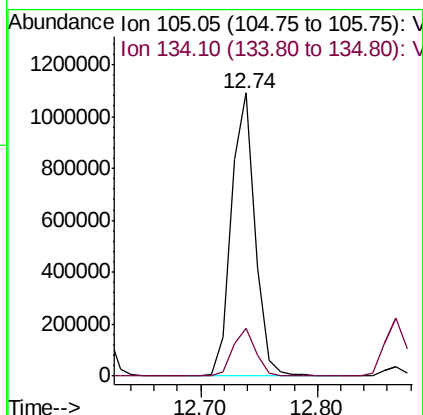
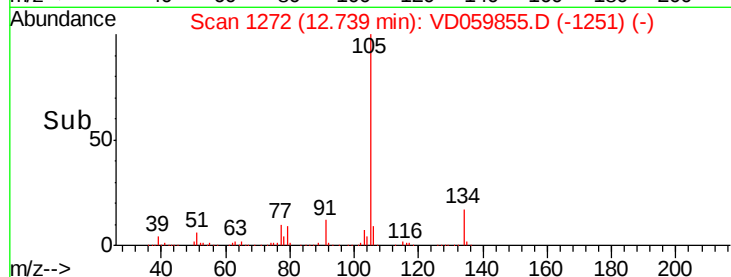
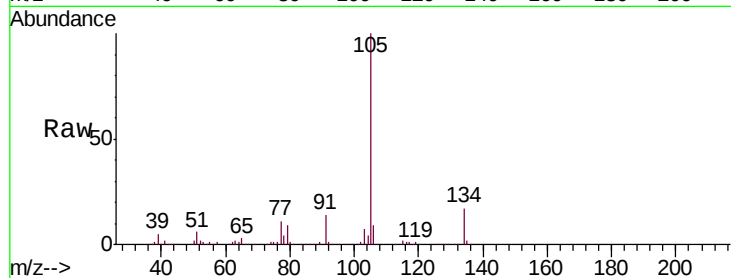




#85
 sec-Butylbenzene
 Concen: 49.966 ug/l
 RT: 12.74 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

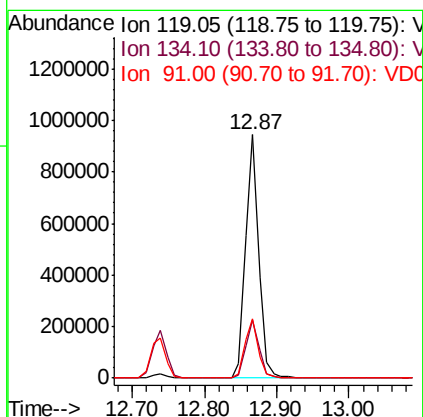
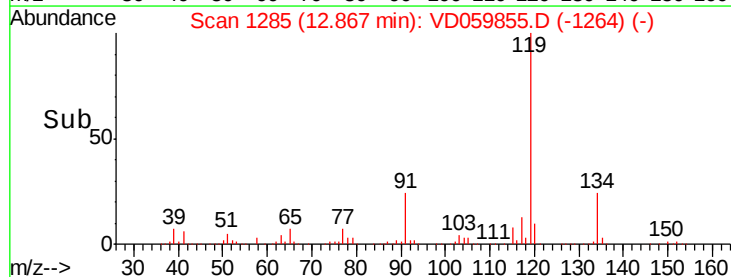
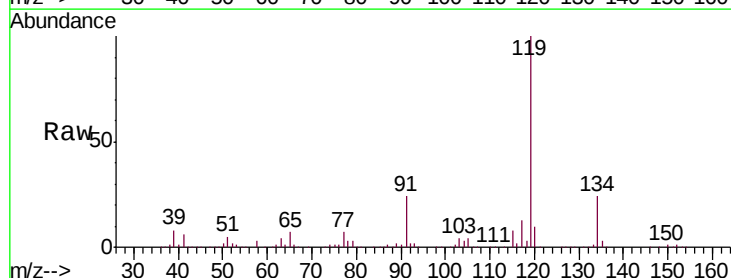
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081518-FL-031MS

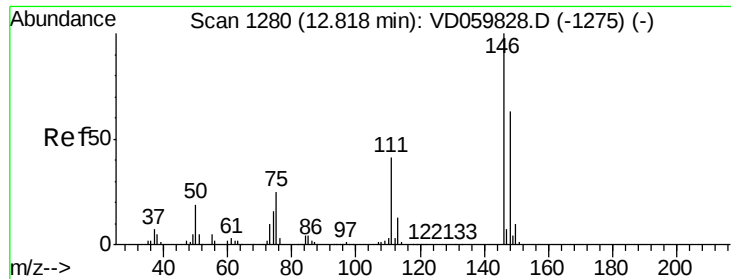
Tgt Ion:105 Resp: 1524681
 Ion Ratio Lower Upper
 105 100
 134 17.0 7.8 23.5



#86
 p-Isopropyltoluene
 Concen: 50.393 ug/l
 RT: 12.87 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Tgt Ion:119 Resp: 1206239
 Ion Ratio Lower Upper
 119 100
 134 23.9 11.5 34.5
 91 24.3 13.2 39.6





#87

1,3-Dichlorobenzene

Concen: 53.813 ug/l

RT: 12.82 min Scan# 1280

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031MS

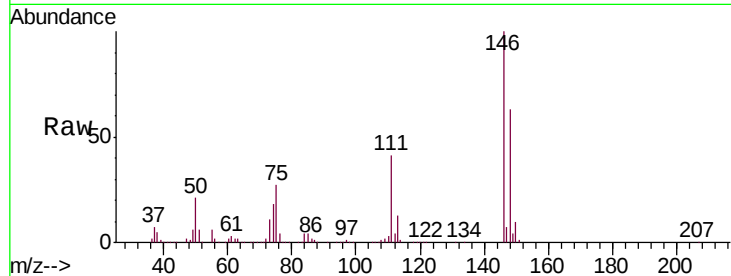
Tgt Ion:146 Resp: 734443

Ion Ratio Lower Upper

146 100

111 40.5 20.3 60.9

148 62.8 31.6 94.7

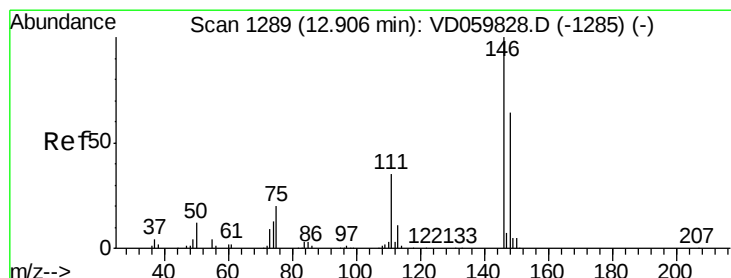
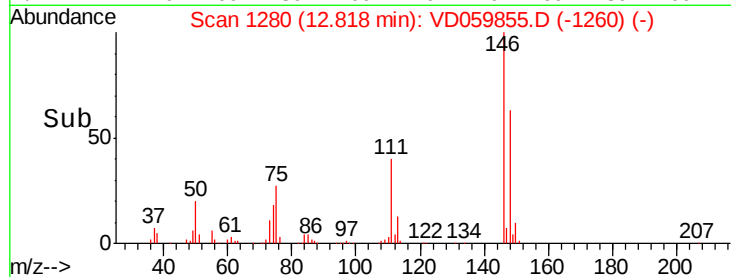
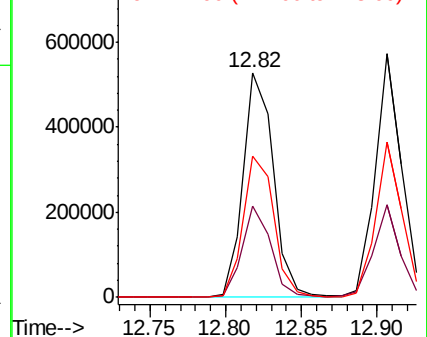


Abundance

Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 52.259 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD059855.D

Acq: 21 Aug 2018 14:57

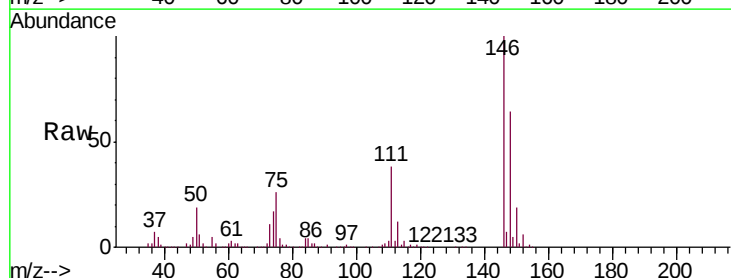
Tgt Ion:146 Resp: 706953

Ion Ratio Lower Upper

146 100

111 38.1 17.8 53.3

148 63.8 31.9 95.9

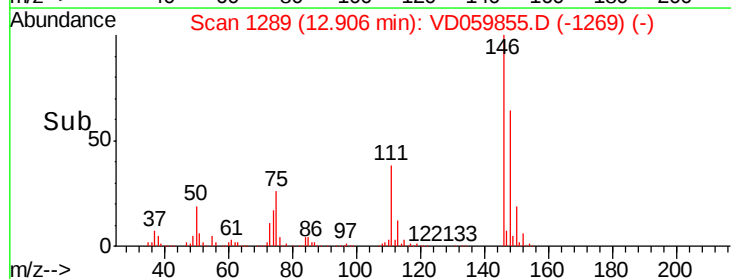
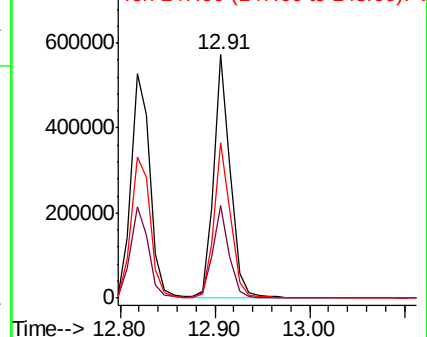


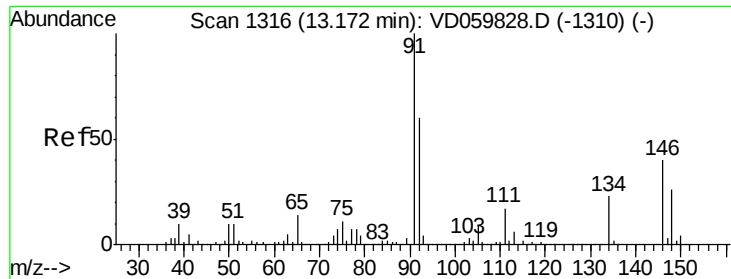
Abundance

Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

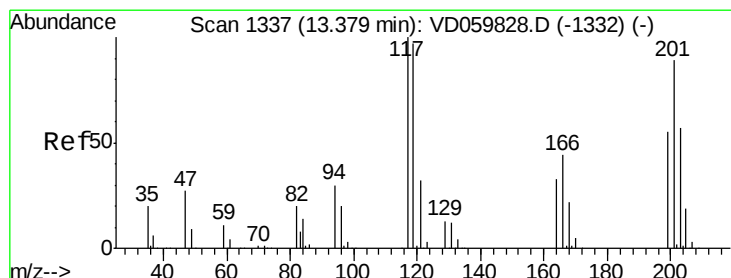
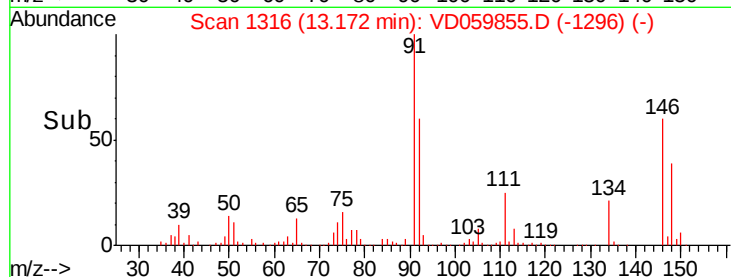
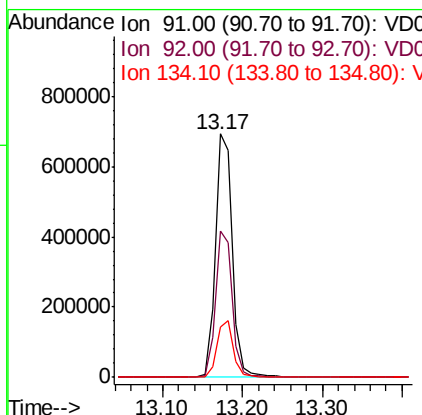
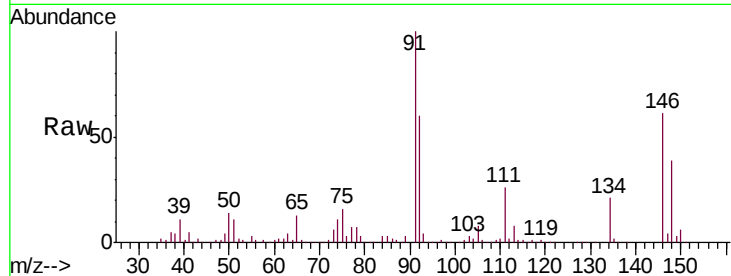




#89
n-Butylbenzene
Concen: 45.587 ug/l
RT: 13.17 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

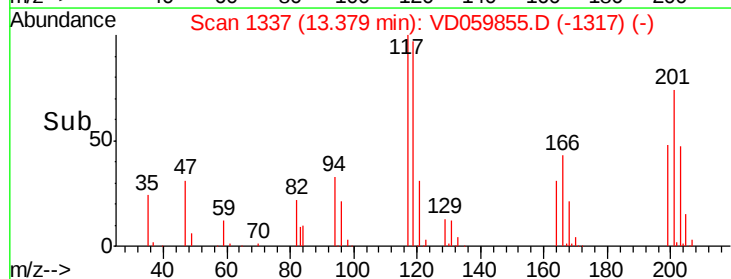
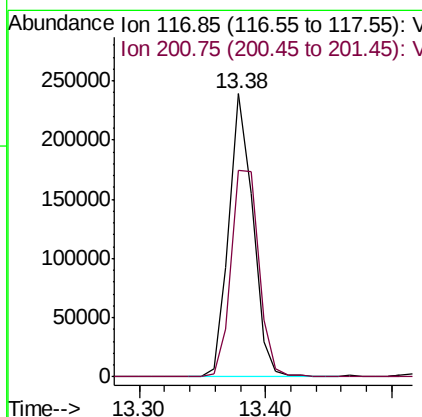
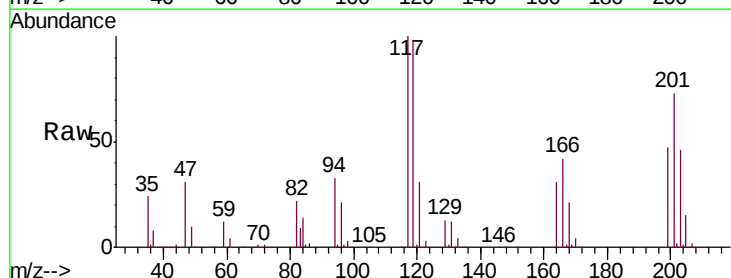
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

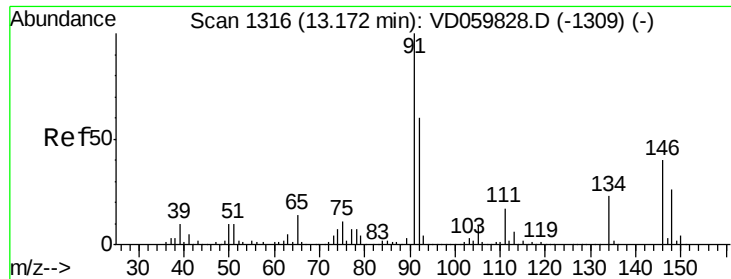
Tgt Ion: 91 Resp: 1032608
Ion Ratio Lower Upper
91 100
92 60.2 29.8 89.5
134 20.5 11.5 34.4



#90
Hexachloroethane
Concen: 45.898 ug/l
RT: 13.38 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion: 117 Resp: 313464
Ion Ratio Lower Upper
117 100
201 72.8 44.6 134.0

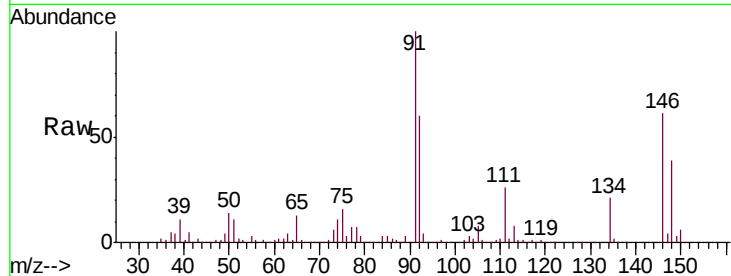




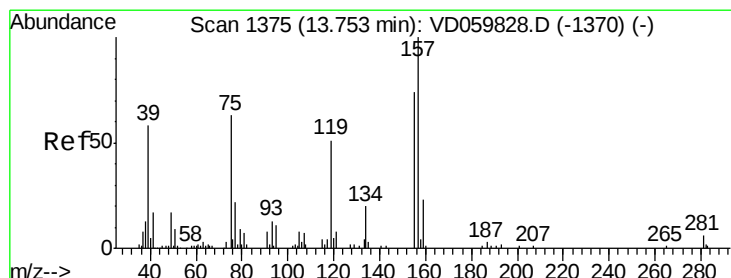
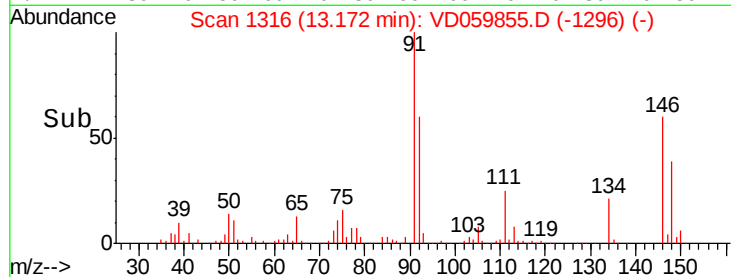
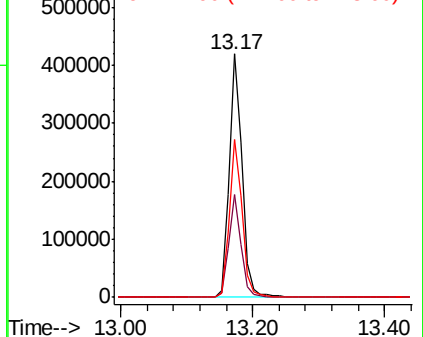
#91
 1,2-Dichlorobenzene
 Concen: 56.495 ug/l
 RT: 13.17 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081518-FL-031MS

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.9	62.8
148	65.1	31.6	94.8

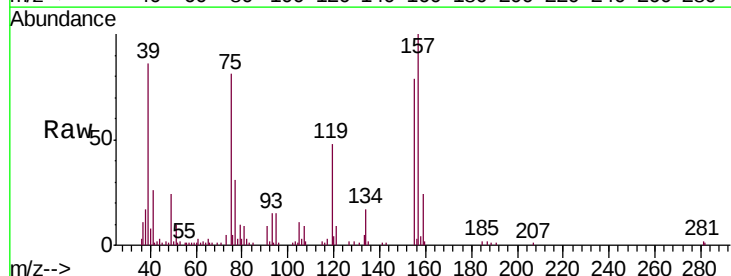


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

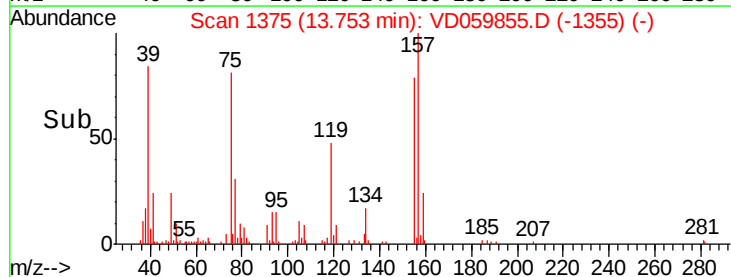
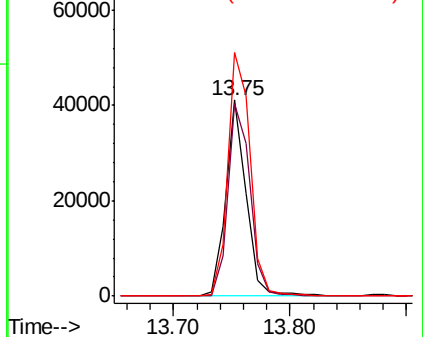


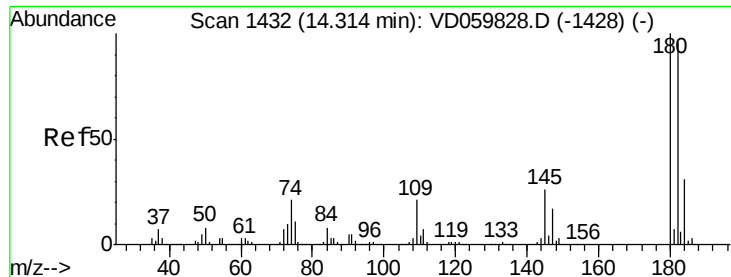
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.550 ug/l
 RT: 13.75 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.9	59.1	177.3
157	124.1	79.7	238.9



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

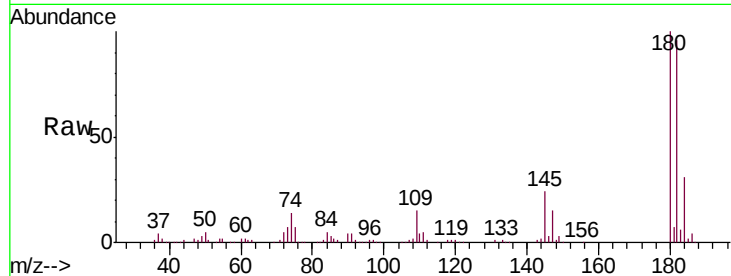




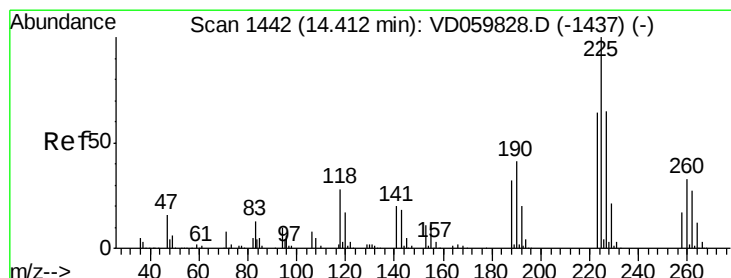
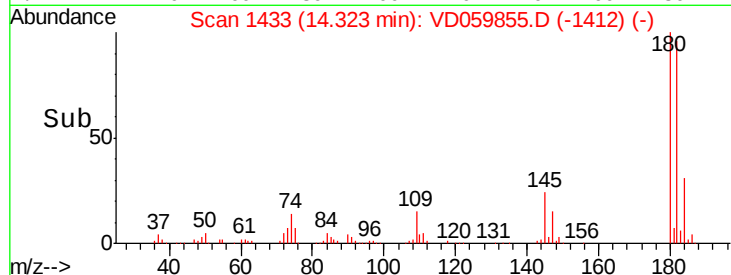
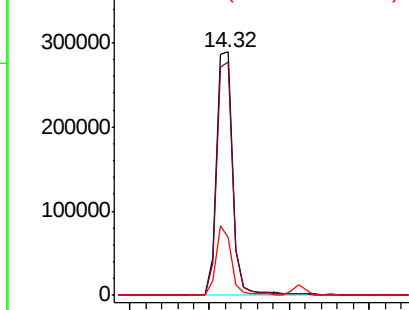
#93
 1,2,4-Trichlorobenzene
 Concen: 42.786 ug/l
 RT: 14.32 min Scan# 1433
 Delta R.T. 0.01 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081518-FL-031MS

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	23.6	13.1	39.1

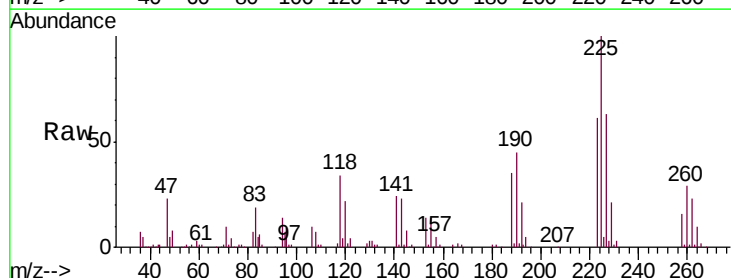


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

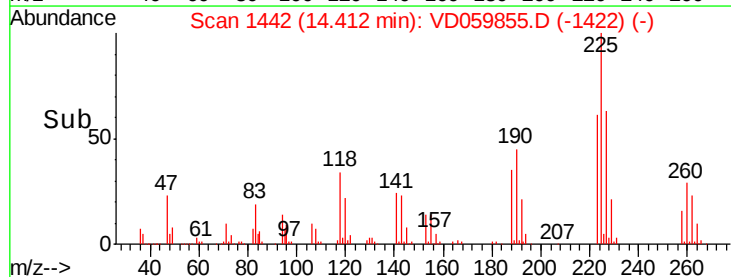
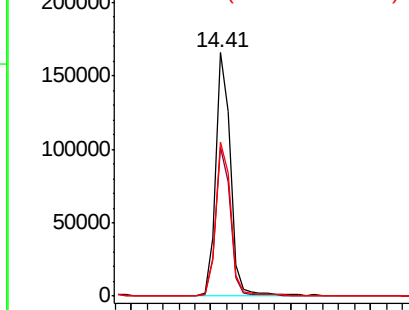


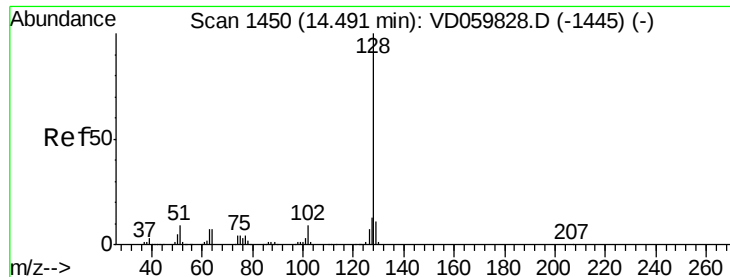
#94
 Hexachlorobutadiene
 Concen: 33.378 ug/l
 RT: 14.41 min Scan# 1442
 Delta R.T. -0.00 min
 Lab File: VD059855.D
 Acq: 21 Aug 2018 14:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.8	95.4
227	63.4	32.8	98.3



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

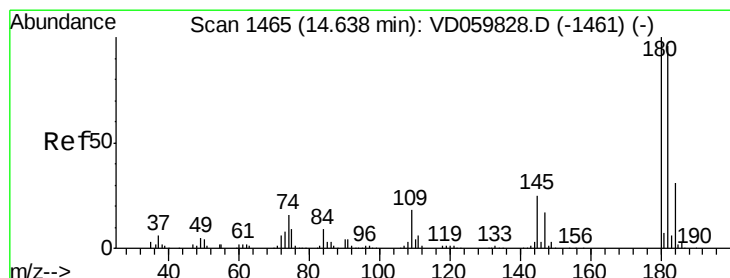
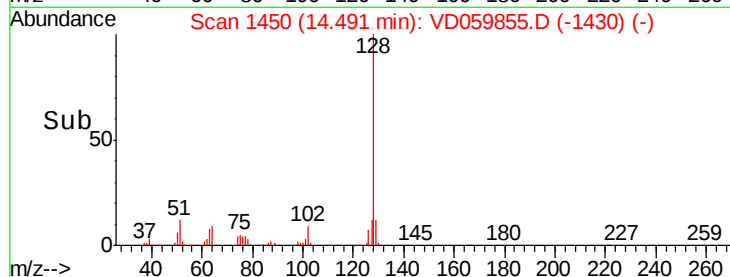
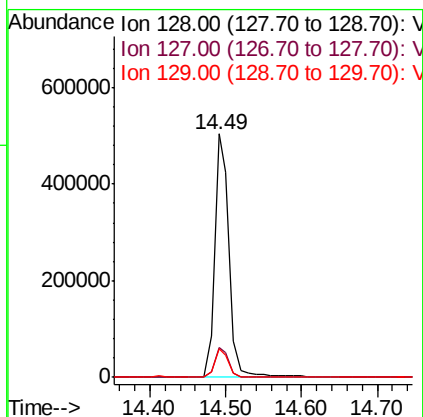
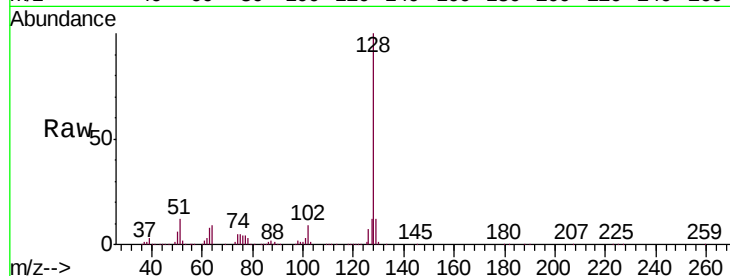




#95
Naphthalene
Concen: 42.405 ug/l
RT: 14.49 min Scan# 1450
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031MS

Tgt Ion:128 Resp: 678817
Ion Ratio Lower Upper
128 100
127 12.3 10.1 15.1
129 11.6 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 40.499 ug/l
RT: 14.64 min Scan# 1465
Delta R.T. -0.00 min
Lab File: VD059855.D
Acq: 21 Aug 2018 14:57

Tgt Ion:180 Resp: 347779
Ion Ratio Lower Upper
180 100
182 95.9 47.8 143.4
145 29.1 12.7 38.0

