

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063443.D
 Acq On : 8 Aug 2019 17:25
 Operator : JC/SY
 Sample : K4223-10
 Misc : 4.59g/5ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-5

Quant Time: Aug 09 06:59:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	165282	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	253802	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	168168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	56679	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	176055	96.00	ug/l	0.02
Spiked Amount						
			Recovery	=	192.00%	
35) Dibromofluoromethane	6.93	113	134797	62.21	ug/l	0.02
Spiked Amount						
			Recovery	=	124.42%	
50) Toluene-d8	10.42	98	206510	42.58	ug/l	0.02
Spiked Amount						
			Recovery	=	85.16%	
62) 4-Bromofluorobenzene	13.56	95	70775	32.03	ug/l	0.00
Spiked Amount						
			Recovery	=	64.06%	

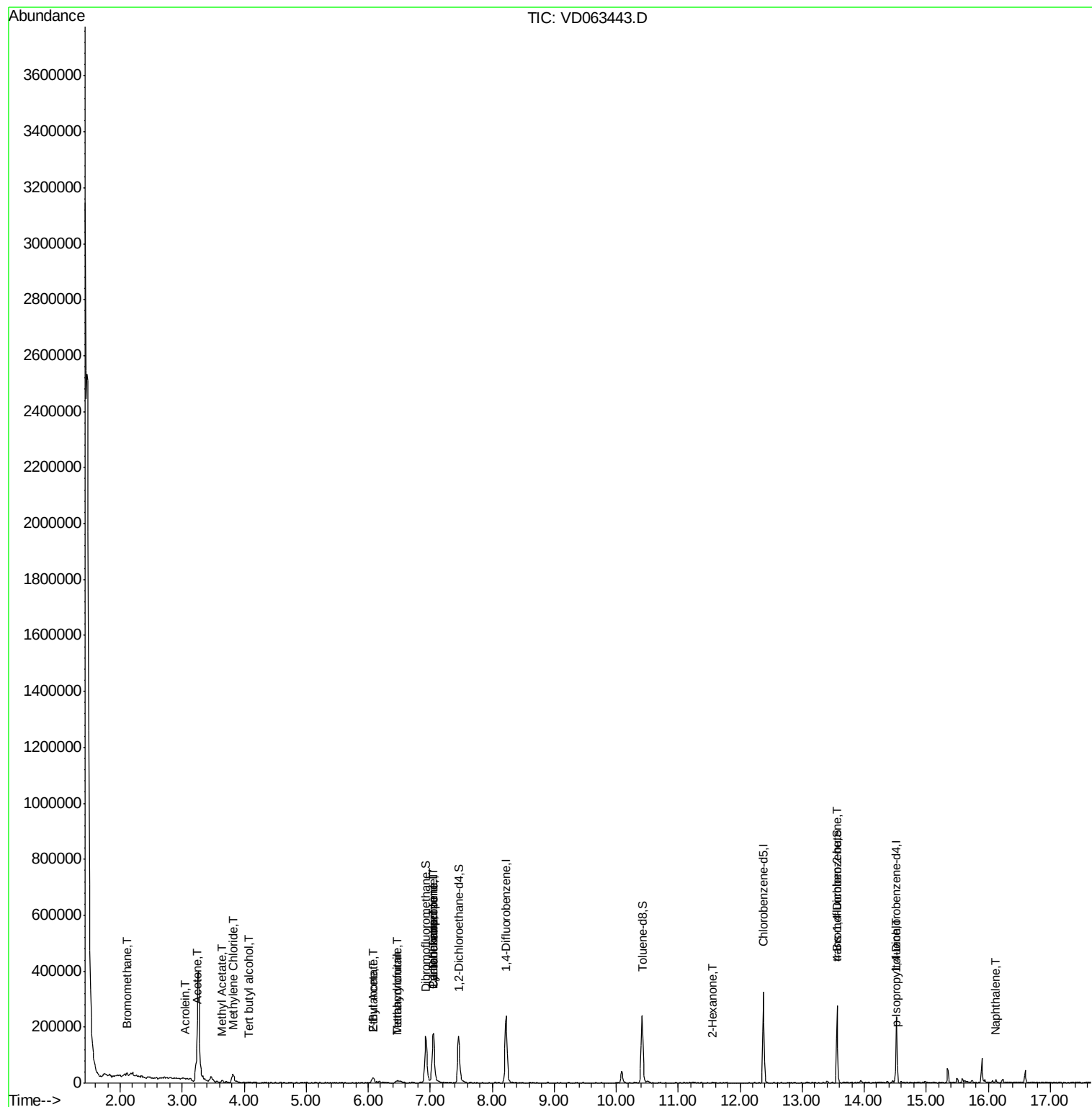
Target Compounds						Qvalue
5) Bromomethane	2.12	94	1654	2.018	ug/l #	12
11) Tert butyl alcohol	4.07	59	1067	13.257	ug/l #	69
13) Acrolein	3.06	56	938	12.110	ug/l #	48
16) Acetone	3.23	43	119253	333.736	ug/l	95
18) Methyl Acetate	3.64	43	13042	19.002	ug/l	96
20) Methylene Chloride	3.82	84	18270	12.649	ug/l #	80
25) 2-Butanone	6.08	43	40017	111.590	ug/l	99
29) Tetrahydrofuran	6.47	42	5905	34.780	ug/l #	80
31) Cyclohexane	7.05	56	3015	1.846	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	13125	5.666	ug/l #	44
37) Ethyl Acetate	6.08	43	39802	38.249	ug/l #	70
38) Carbon Tetrachloride	7.06	117	17326	4.969	ug/l #	11
41) Methacrylonitrile	6.47	41	5276	4.239	ug/l #	92
59) 2-Hexanone	11.54	43	1128	1.731	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.56	75	34230	181.072	ug/l #	3
86) p-Isopropyltoluene	14.50	119	6098	1.731	ug/l	91
95) Naphthalene	16.13	128	7993	4.559	ug/l #	88

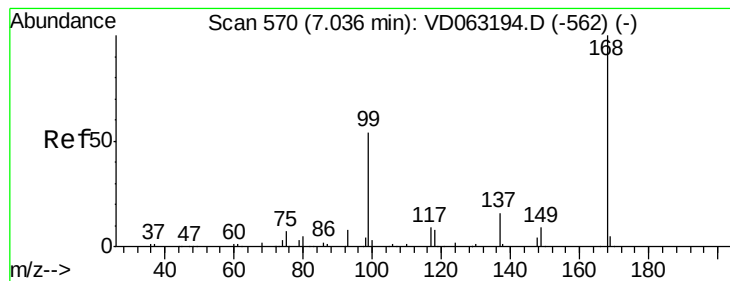
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

Instrument :

MSVOA_D

ClientSampleId :

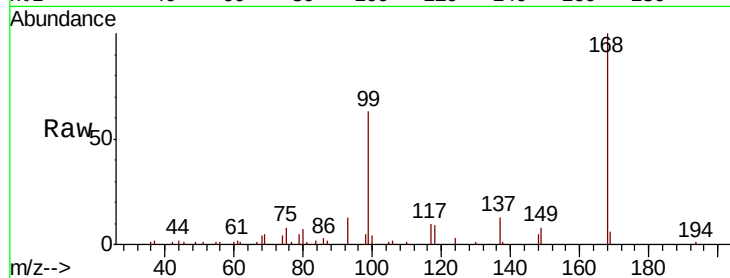
SP-5

Tgt Ion:168 Resp: 165282

Ion Ratio Lower Upper

168 100

99 62.8 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

60000

7.06

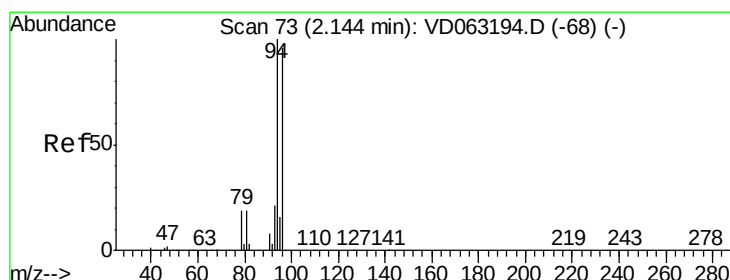
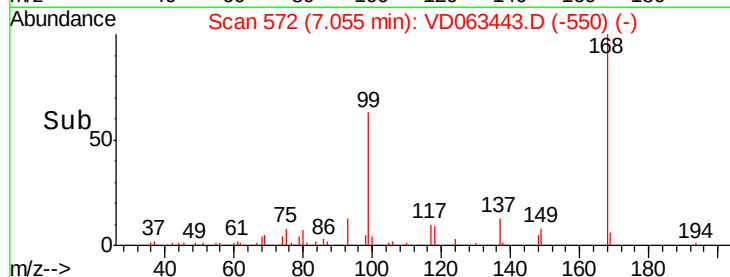
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 2.018 ug/l

RT: 2.12 min Scan# 71

Delta R.T. -0.02 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

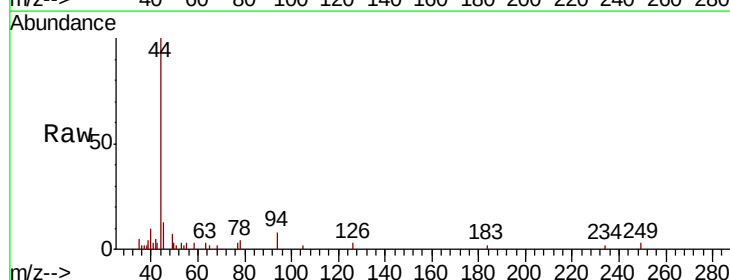
Tgt Ion: 94 Resp: 1654

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

1500

2.12

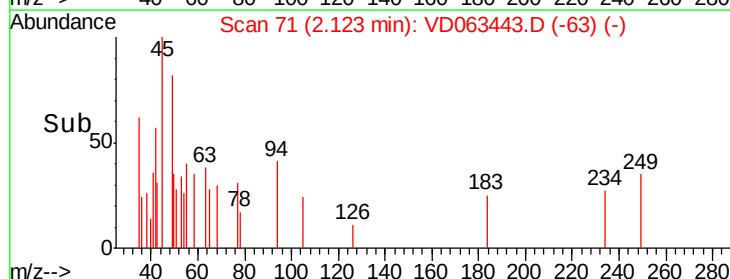
1000

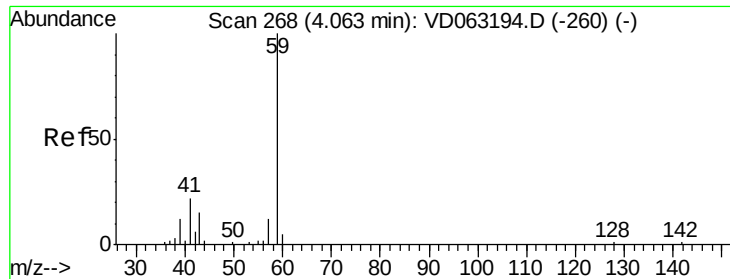
500

0

Time-->

2.10 2.12 2.14

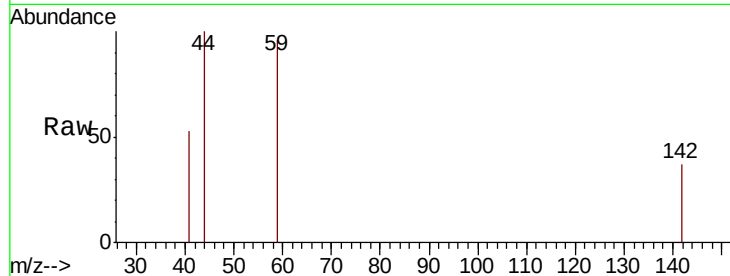




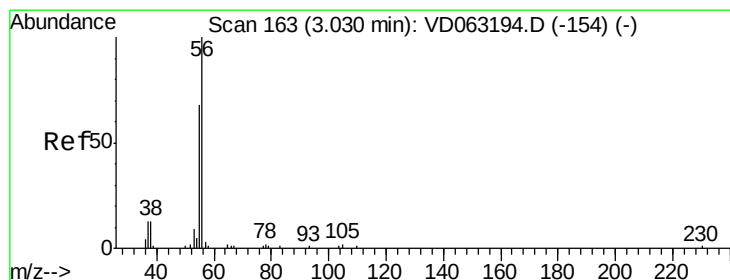
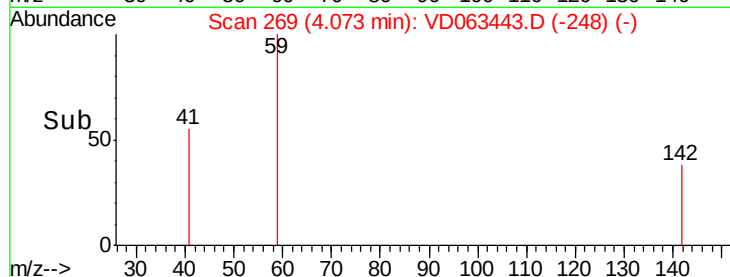
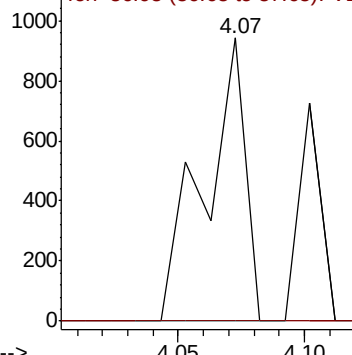
#11
Tert butyl alcohol
Concen: 13.257 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.01 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Instrument :
MSVOA_D
ClientSampled :
SP-5

Tgt Ion: 59 Resp: 1067
Ion Ratio Lower Upper
59 100
57 0.0 9.6 14.4#

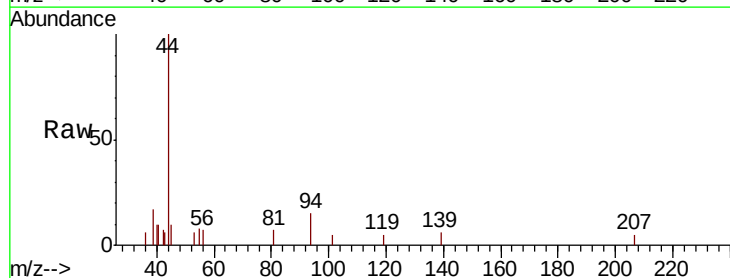


Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC

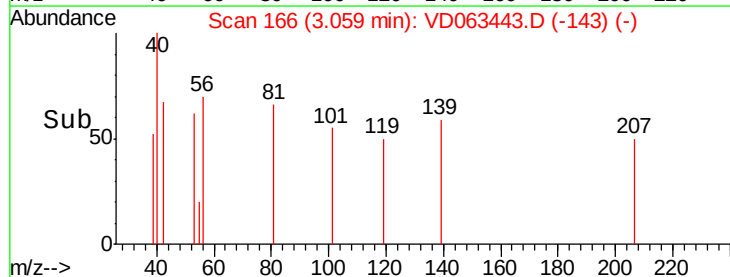
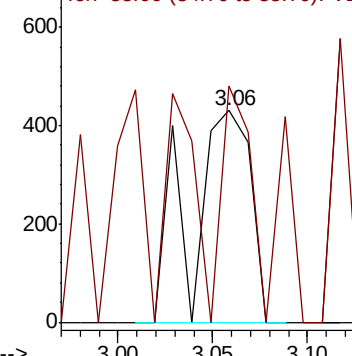


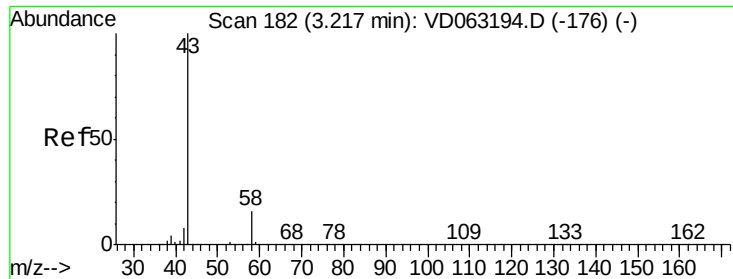
#13
Acrolein
Concen: 12.110 ug/l
RT: 3.06 min Scan# 166
Delta R.T. 0.03 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Tgt Ion: 56 Resp: 938
Ion Ratio Lower Upper
56 100
55 111.8 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC

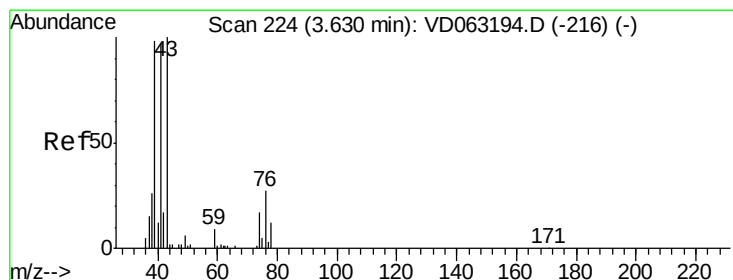
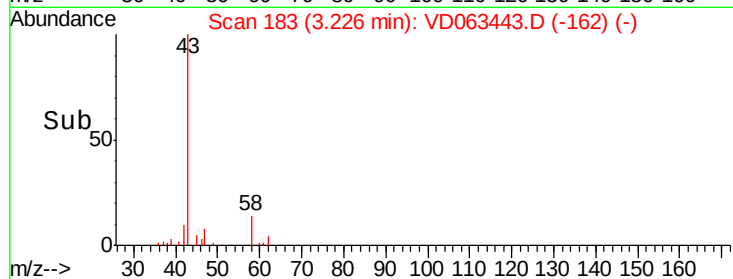
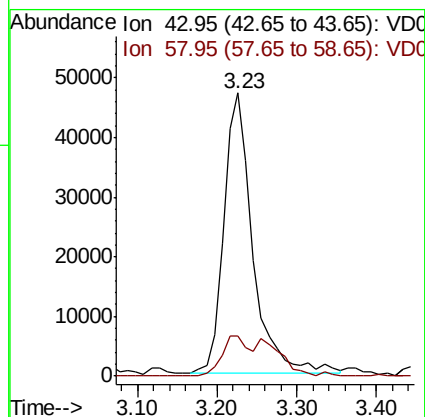
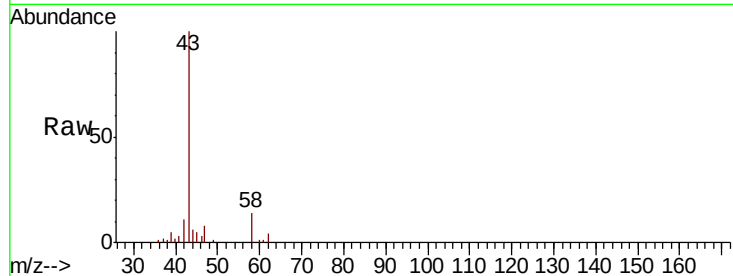




#16
Acetone
Concen: 333.736 ug/l
RT: 3.23 min Scan# 183
Delta R.T. 0.01 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

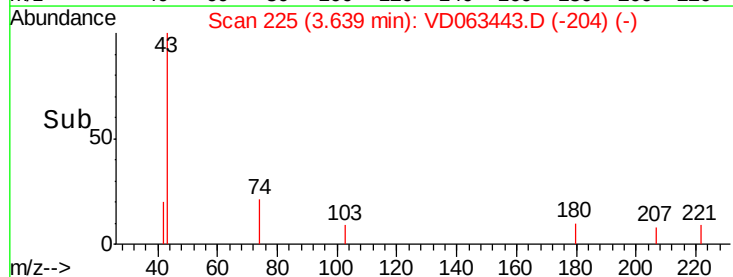
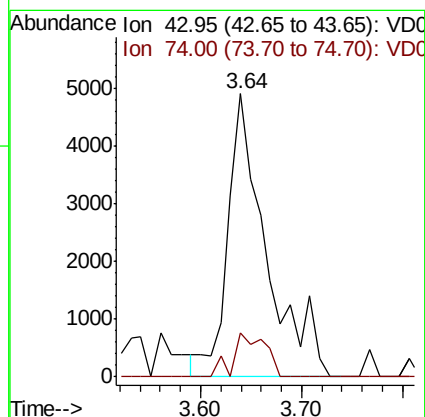
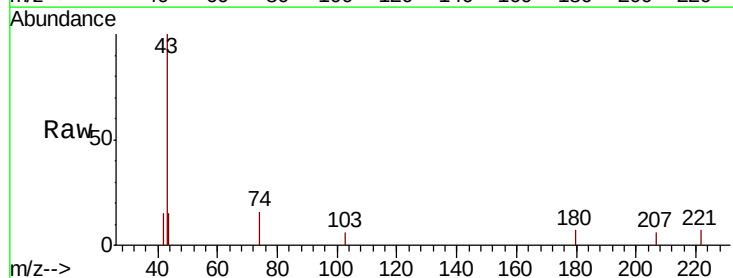
Instrument :
MSVOA_D
ClientSampleId :
SP-5

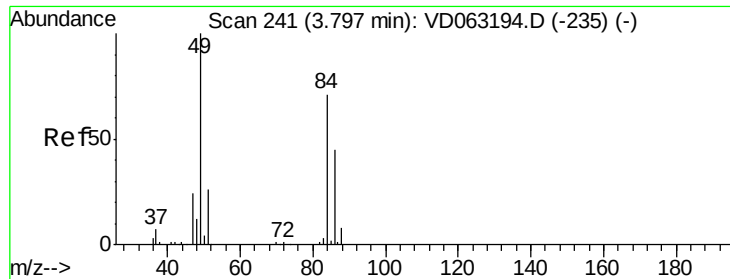
Tgt Ion: 43 Resp: 119253
Ion Ratio Lower Upper
43 100
58 14.0 13.0 19.4



#18
Methyl Acetate
Concen: 19.002 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Tgt Ion: 43 Resp: 13042
Ion Ratio Lower Upper
43 100
74 15.7 13.8 20.8

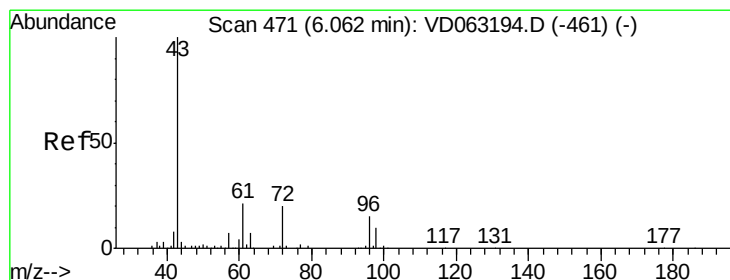
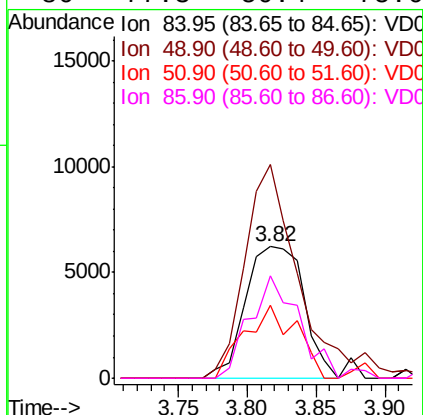
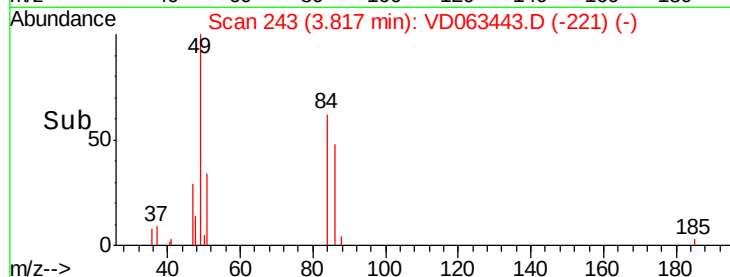
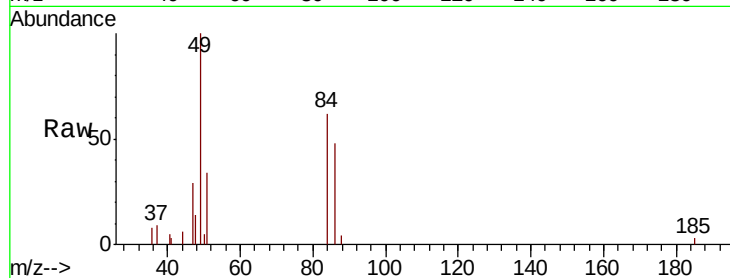




#20
Methylene Chloride
Concen: 12.649 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

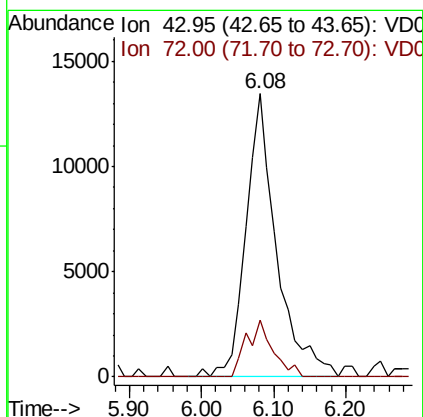
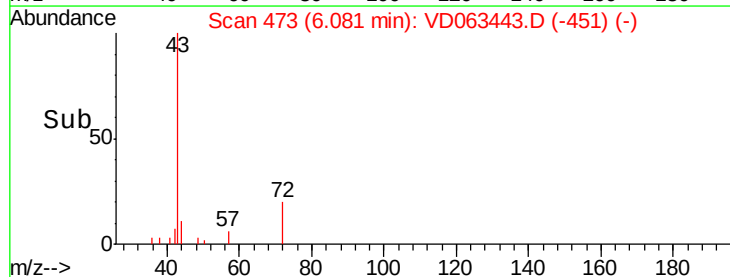
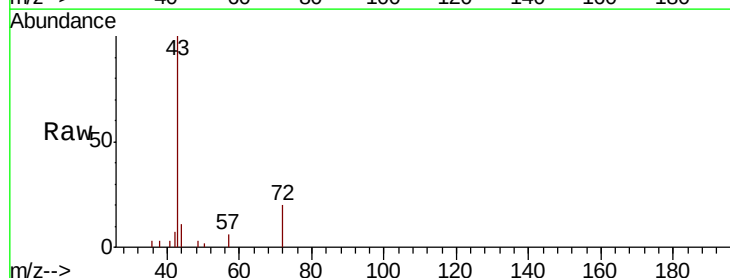
Instrument :
MSVOA_D
ClientSampleId :
SP-5

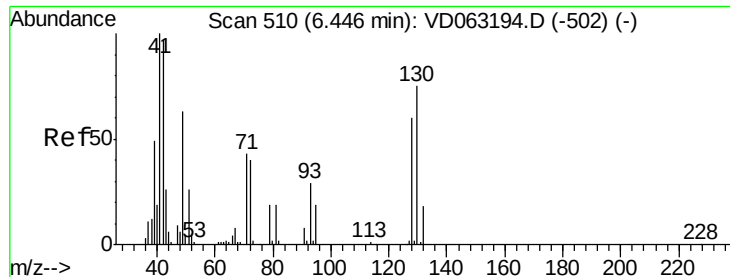
Tgt Ion: 84 Resp: 18270
Ion Ratio Lower Upper
84 100
49 162.1 112.5 168.7
51 55.4 29.6 44.4#
86 77.3 50.4 75.6#



#25
2-Butanone
Concen: 111.590 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.02 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Tgt Ion: 43 Resp: 40017
Ion Ratio Lower Upper
43 100
72 19.9 16.3 24.5





#29

Tetrahydrofuran

Concen: 34.780 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

Instrument :

MSVOA_D

ClientSampleId :

SP-5

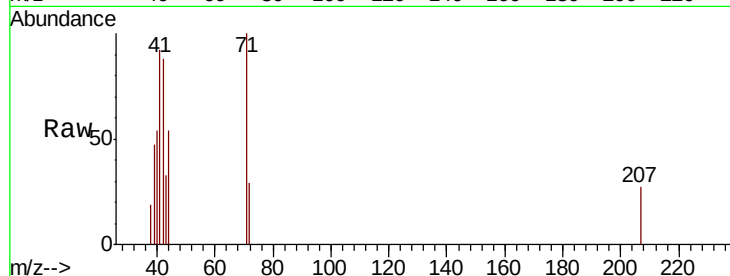
Tgt Ion: 42 Resp: 5905

Ion Ratio Lower Upper

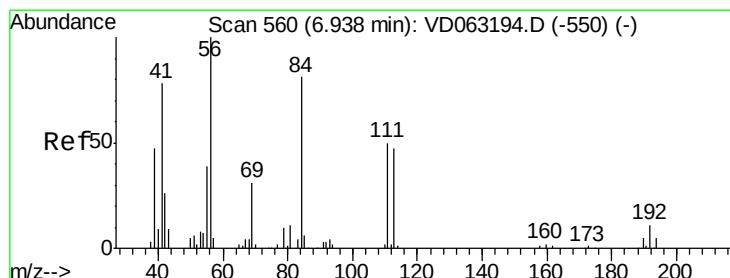
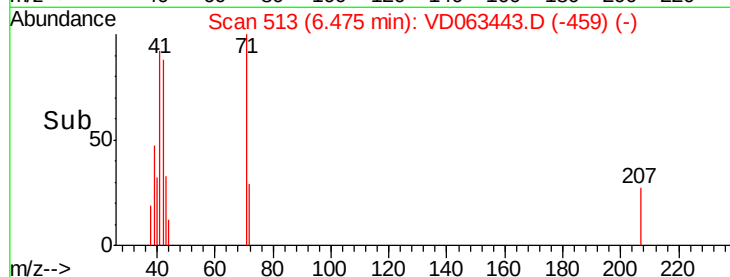
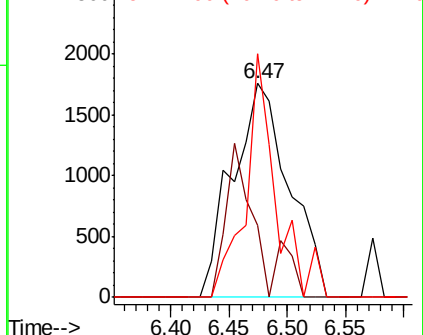
42 100

72 31.9 33.4 50.2#

71 60.8 35.7 53.5#



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



#31

Cyclohexane

Concen: 1.846 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

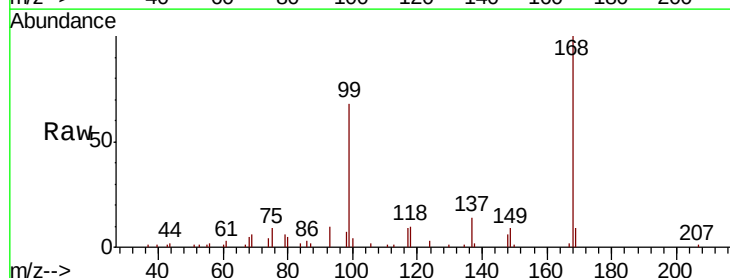
Tgt Ion: 56 Resp: 3015

Ion Ratio Lower Upper

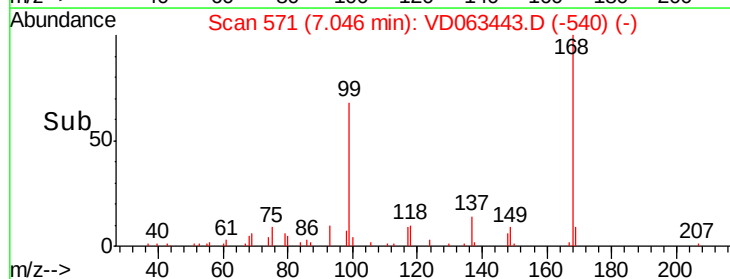
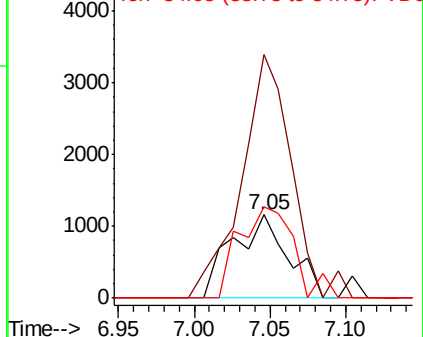
56 100

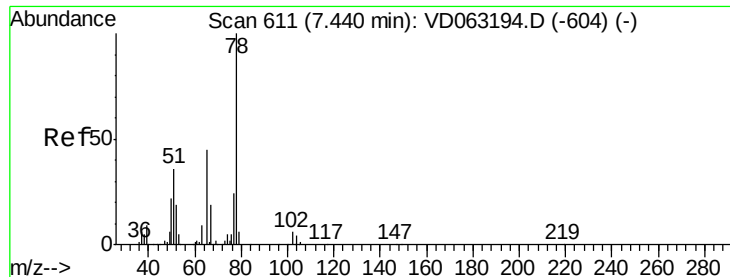
69 291.4 24.5 36.7#

84 110.0 64.9 97.3#



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





#33

1,2-Dichloroethane-d4

Concen: 95.997 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

Instrument :

MSVOA_D

ClientSampleId :

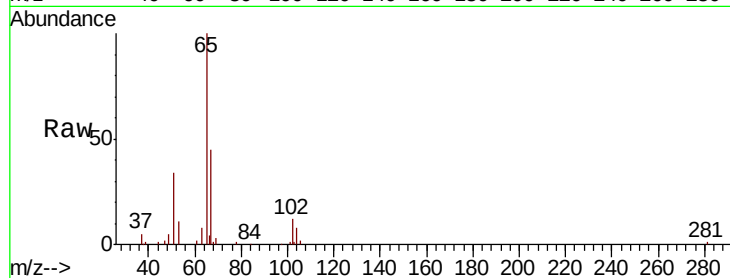
SP-5

Tgt Ion: 65 Resp: 176055

Ion Ratio Lower Upper

65 100

67 45.1 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

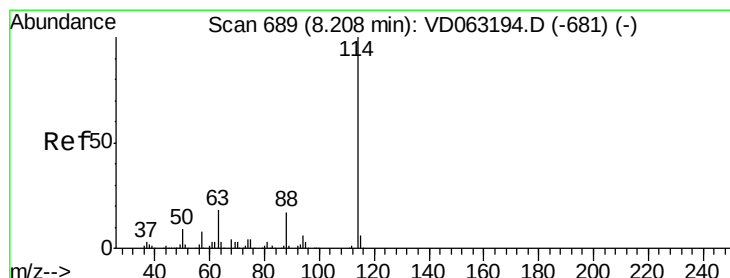
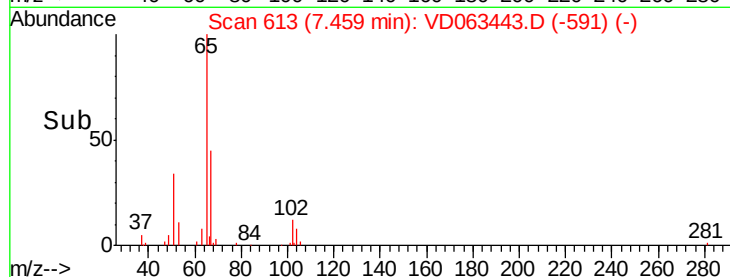
60000

40000

20000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

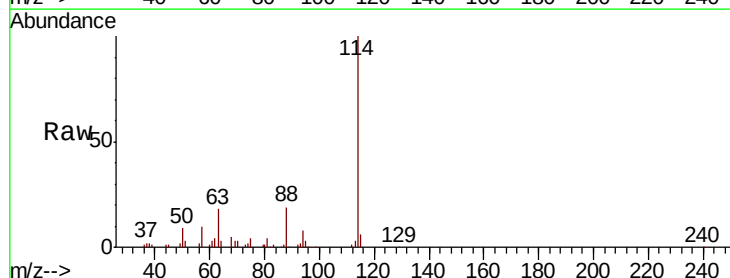
Tgt Ion: 114 Resp: 253802

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.2

88 18.7 0.0 34.6



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

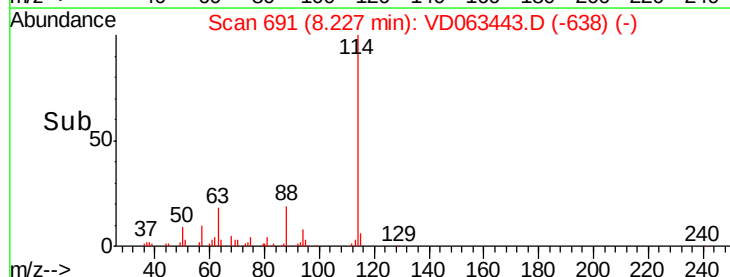
8.23

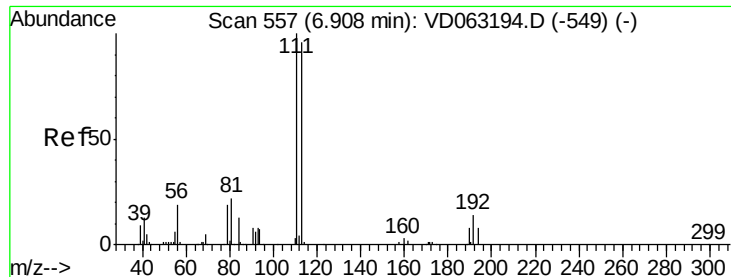
100000

50000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 62.206 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

Instrument :

MSVOA_D

ClientSampleId :

SP-5

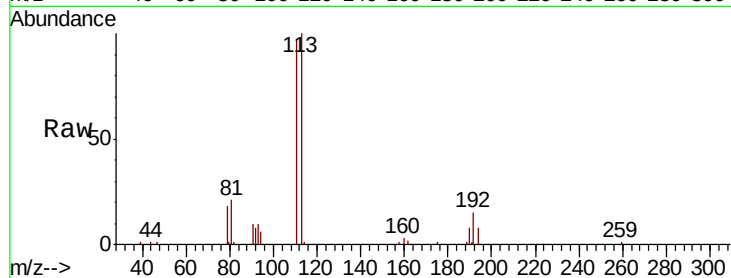
Tgt Ion:113 Resp: 134797

Ion Ratio Lower Upper

113 100

111 96.8 83.2 124.8

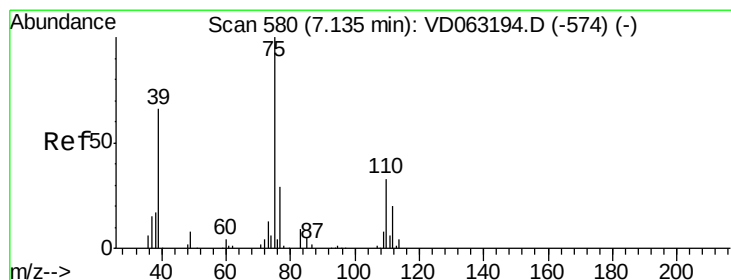
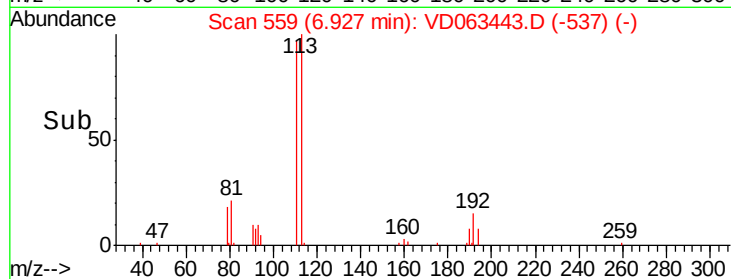
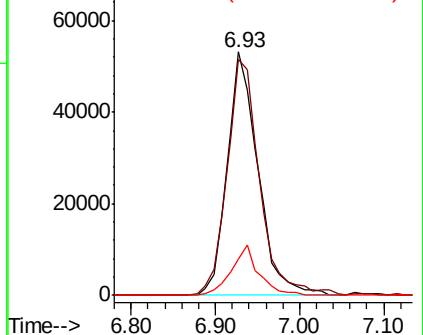
192 15.0 11.8 17.8



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: 5.666 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

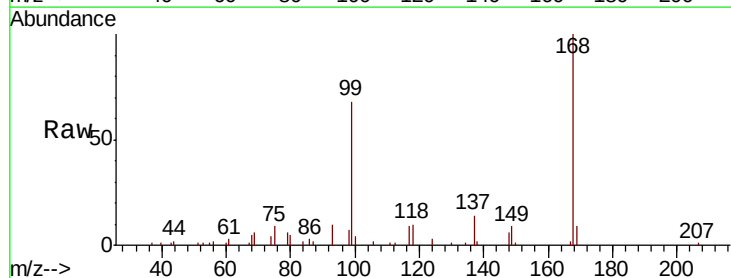
Tgt Ion: 75 Resp: 13125

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

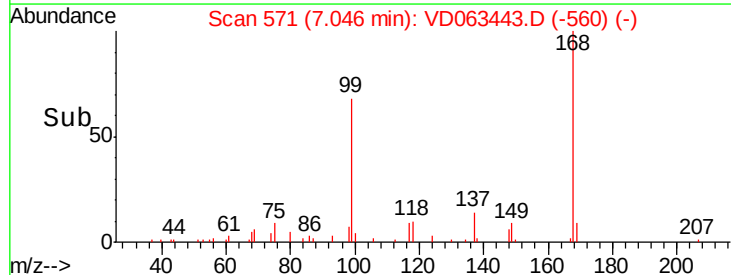
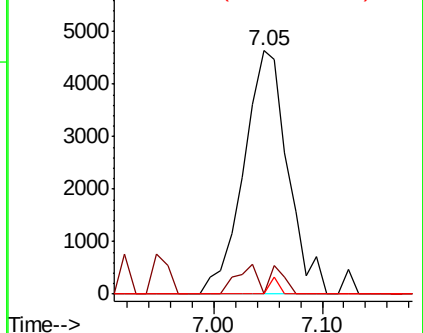
77 0.0 22.7 34.1#

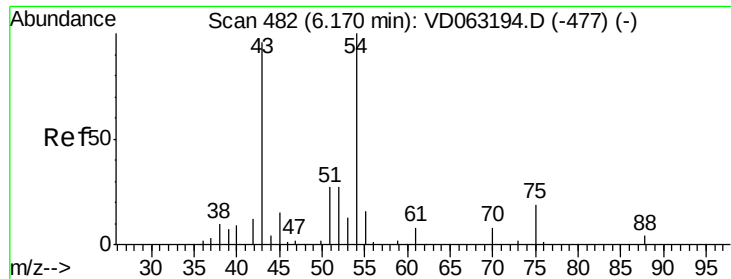


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

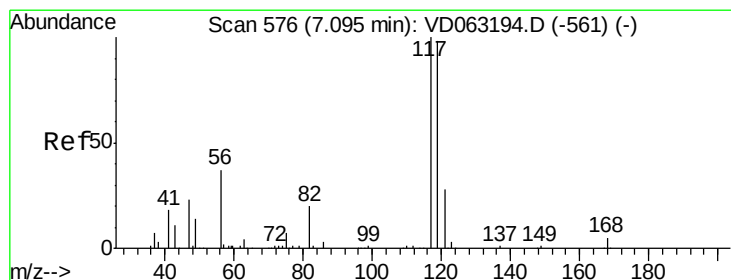
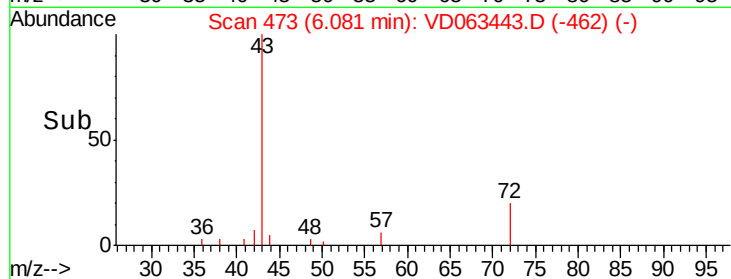
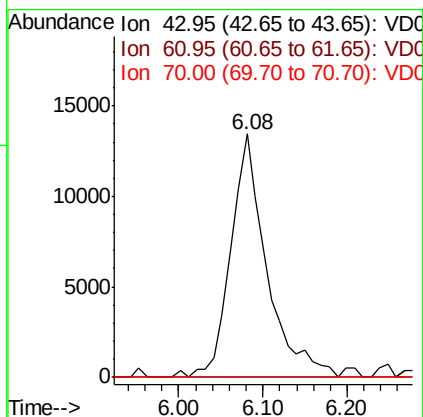
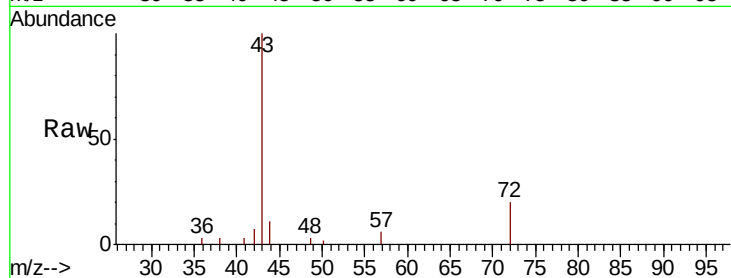




#37
Ethyl Acetate
Concen: 38.249 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.09 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

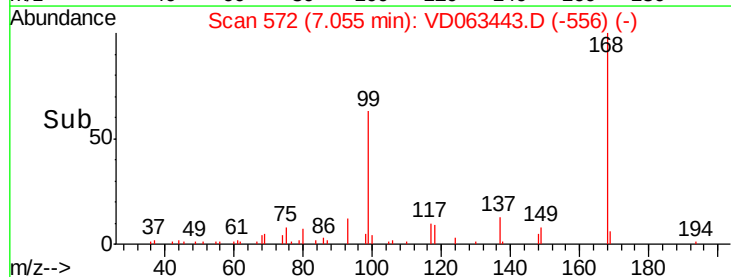
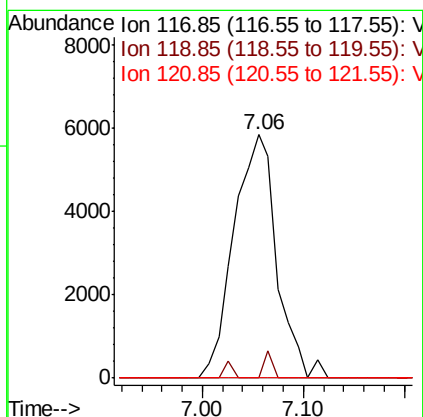
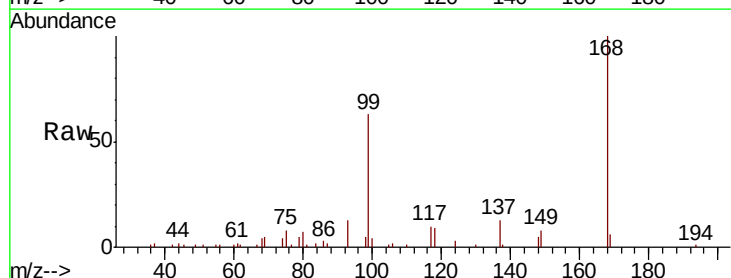
Instrument :
MSVOA_D
ClientSampleId :
SP-5

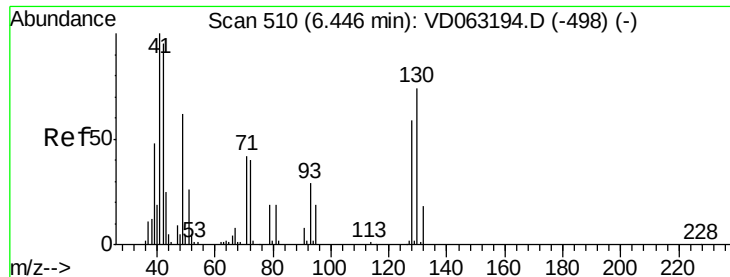
Tgt Ion: 43 Resp: 39802
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 5.1 7.7#



#38
Carbon Tetrachloride
Concen: 4.969 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.04 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Tgt Ion: 117 Resp: 17326
Ion Ratio Lower Upper
117 100
119 0.0 78.2 117.2#
121 0.0 22.1 33.1#

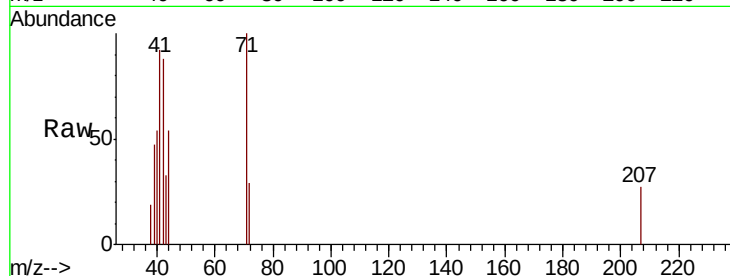




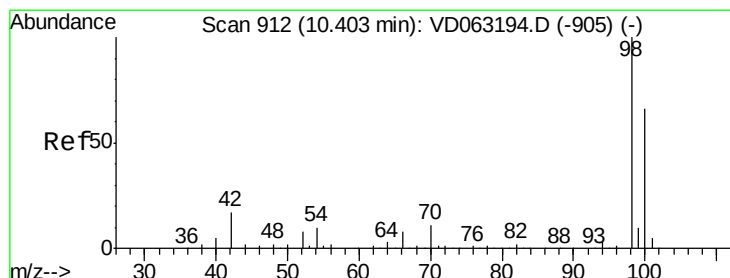
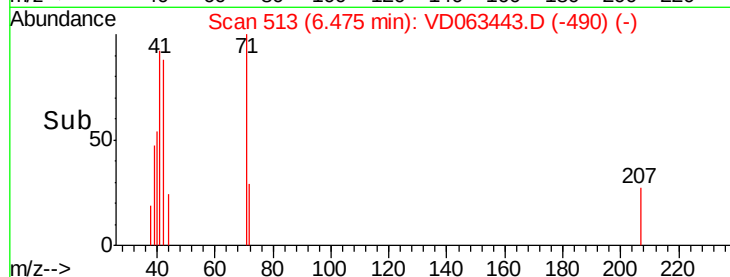
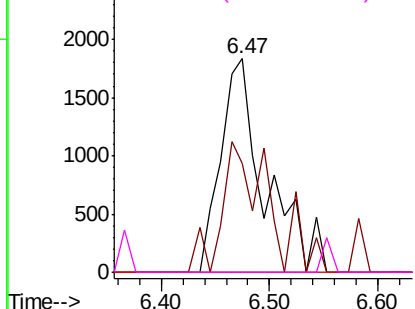
#41
Methacrylonitrile
Concen: 4.239 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.03 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Instrument :
MSVOA_D
ClientSampled :
SP-5

Tgt Ion: 41 Resp: 5276
Ion Ratio Lower Upper
41 100
39 51.2 38.4 57.6
67 0.0 6.7 10.1#
52 0.0 4.3 6.5#

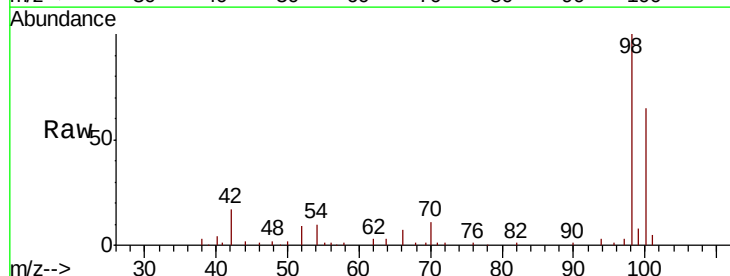


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

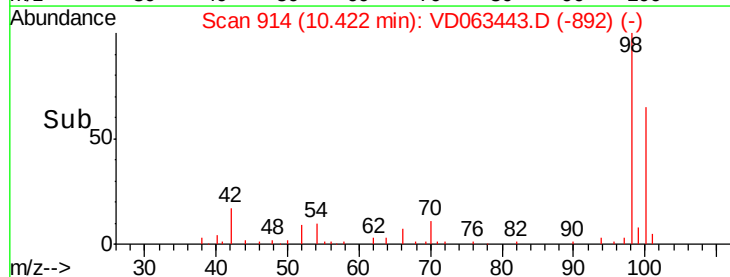
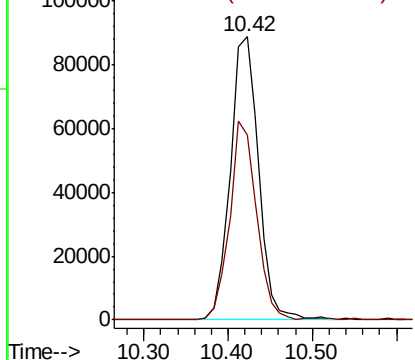


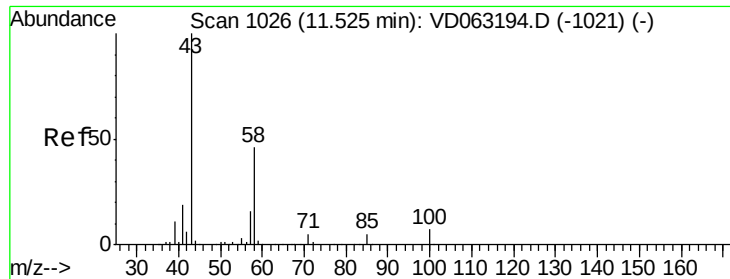
#50
Toluene-d8
Concen: 42.583 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Tgt Ion: 98 Resp: 206510
Ion Ratio Lower Upper
98 100
100 65.2 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#59

2-Hexanone

Concen: 1.731 ug/l

RT: 11.54 min Scan# 1028

Delta R.T. 0.02 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

Instrument :

MSVOA_D

ClientSampled :

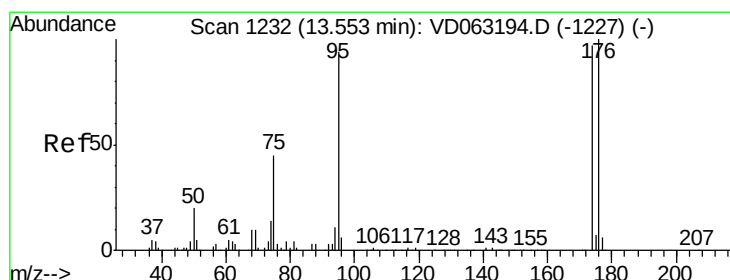
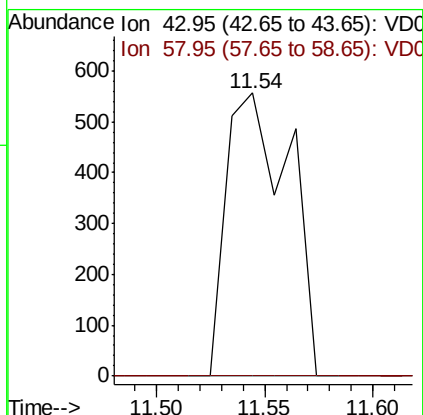
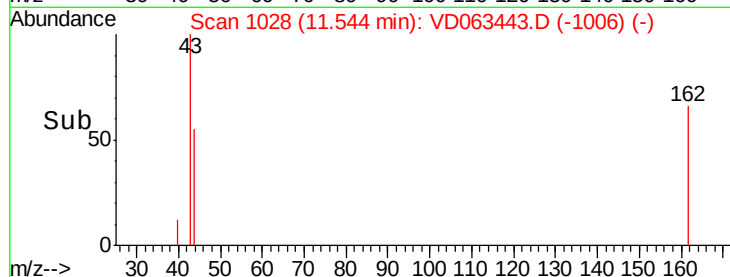
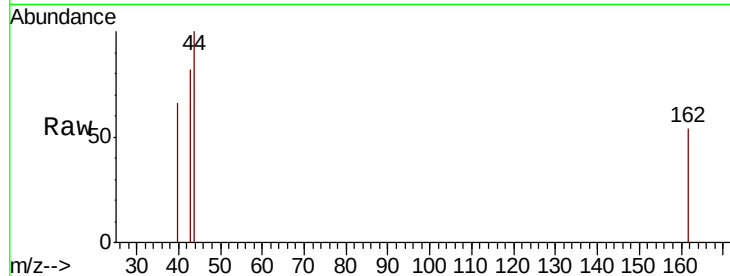
SP-5

Tgt Ion: 43 Resp: 1128

Ion Ratio Lower Upper

43 100

58 0.0 22.9 68.5#



#62

4-Bromofluorobenzene

Concen: 32.026 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063443.D

Acq: 8 Aug 2019 17:25

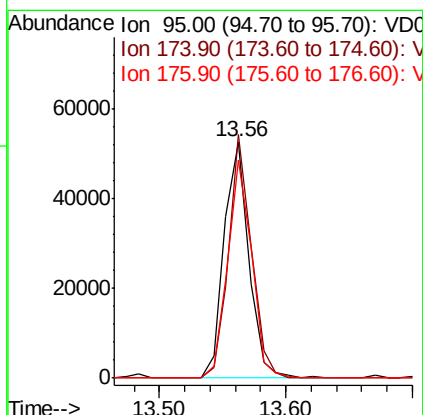
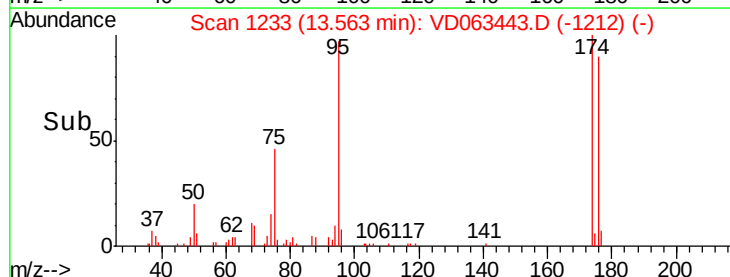
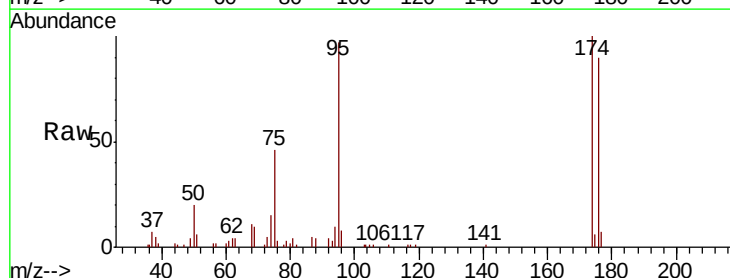
Tgt Ion: 95 Resp: 70775

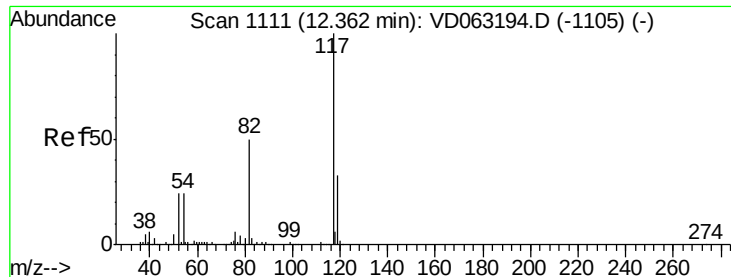
Ion Ratio Lower Upper

95 100

174 103.2 0.0 205.4

176 92.6 0.0 211.8

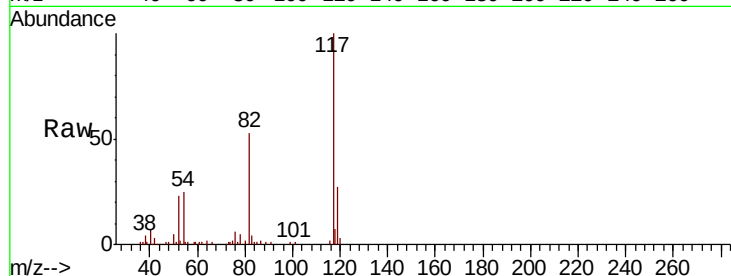




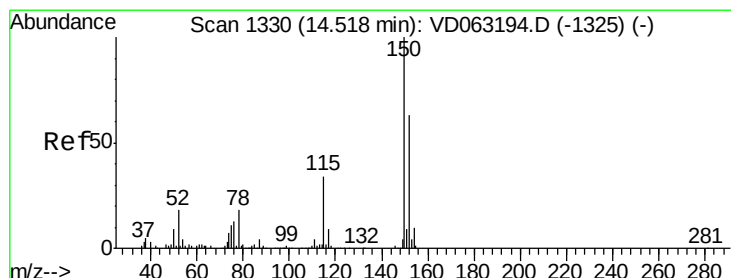
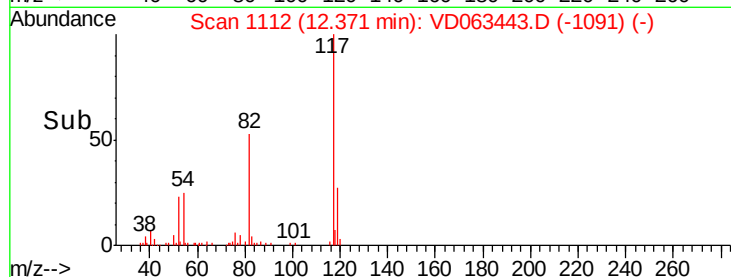
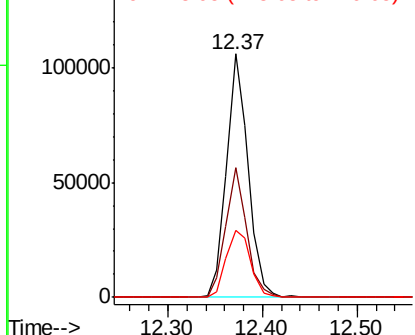
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Instrument :
MSVOA_D
ClientSampled :
SP-5

Tgt Ion:117 Resp: 168168
Ion Ratio Lower Upper
117 100
82 53.2 40.1 60.1
119 27.3 26.5 39.7

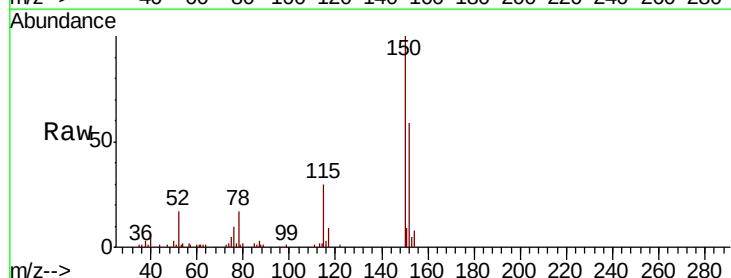


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

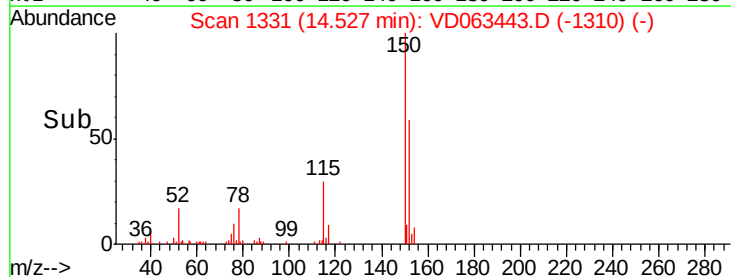
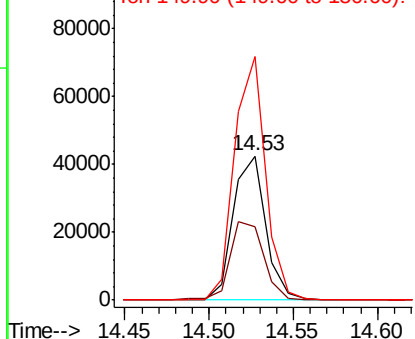


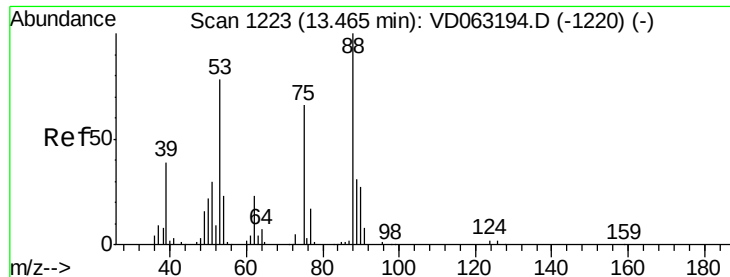
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Tgt Ion:152 Resp: 56679
Ion Ratio Lower Upper
152 100
115 51.3 27.5 82.4
150 169.3 0.0 320.6



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

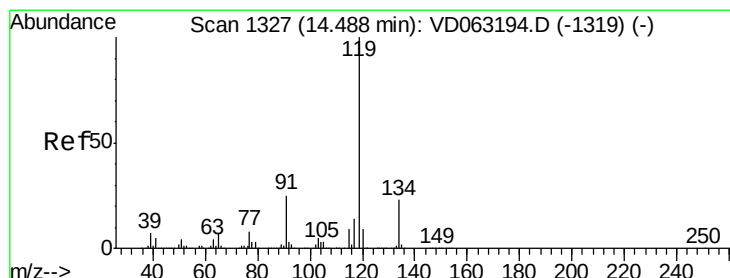
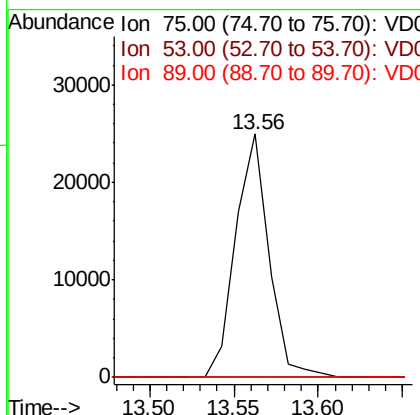
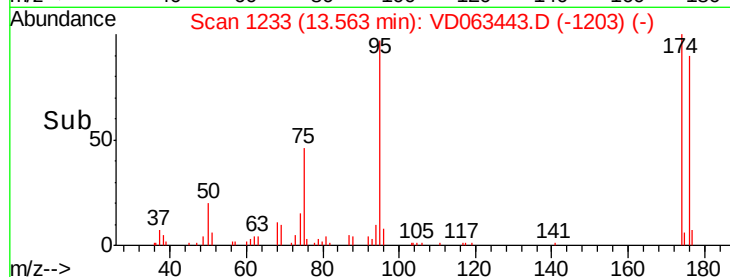
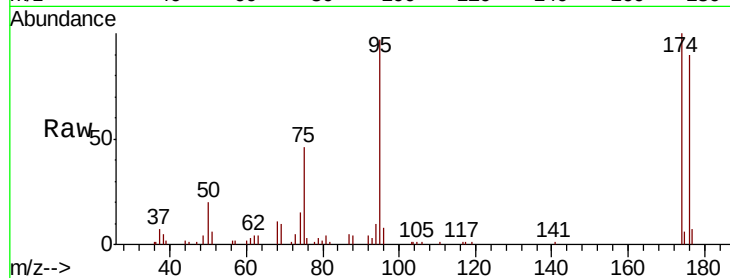




#81
trans-1,4-Dichloro-2-butene
Concen: 181.072 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.10 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

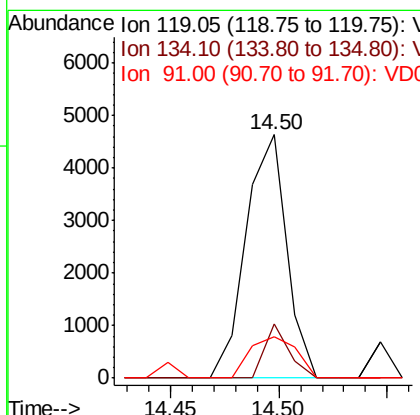
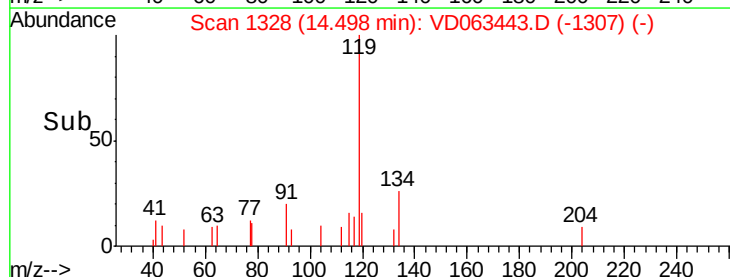
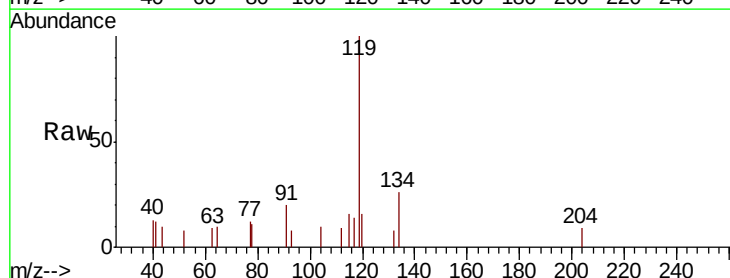
Instrument :
MSVOA_D
ClientSampleId :
SP-5

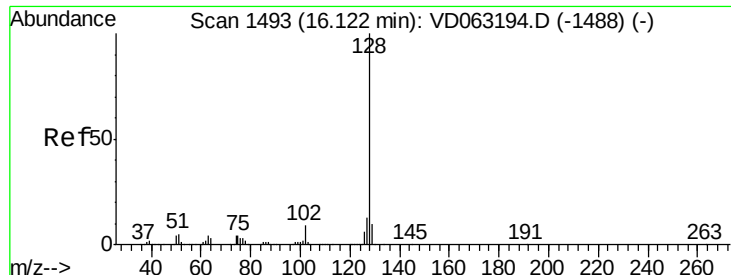
Tgt Ion: 75 Resp: 34230
Ion Ratio Lower Upper
75 100
53 0.0 94.9 142.3#
89 0.0 37.4 56.0#



#86
p-Isopropyltoluene
Concen: 1.731 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Tgt Ion: 119 Resp: 6098
Ion Ratio Lower Upper
119 100
134 22.5 11.5 34.5
91 17.2 12.6 37.6





#95
Naphthalene
Concen: 4.559 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD063443.D
Acq: 8 Aug 2019 17:25

Instrument :
MSVOA_D
ClientSampleId :
SP-5

Tgt Ion	Ratio	Lower	Upper
128	100		
127	5.5	10.2	15.4#
129	8.6	7.8	11.8

