

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063440.D
 Acq On : 8 Aug 2019 16:03
 Operator : JC/SY
 Sample : K4223-04
 Misc : 4.99g/5ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-2

Quant Time: Aug 09 06:58:31 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	774642	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1108570	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	668150	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	190557	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	461974	53.75	ug/l	0.02
Spiked Amount 50.000			Recovery	=	107.50%	
35) Dibromofluoromethane	6.94	113	489290	51.70	ug/l	0.03
Spiked Amount 50.000			Recovery	=	103.40%	
50) Toluene-d8	10.42	98	829295	39.15	ug/l	0.02
Spiked Amount 50.000			Recovery	=	78.30%	
62) 4-Bromofluorobenzene	13.56	95	240933	24.96	ug/l	0.01
Spiked Amount 50.000			Recovery	=	49.92%	

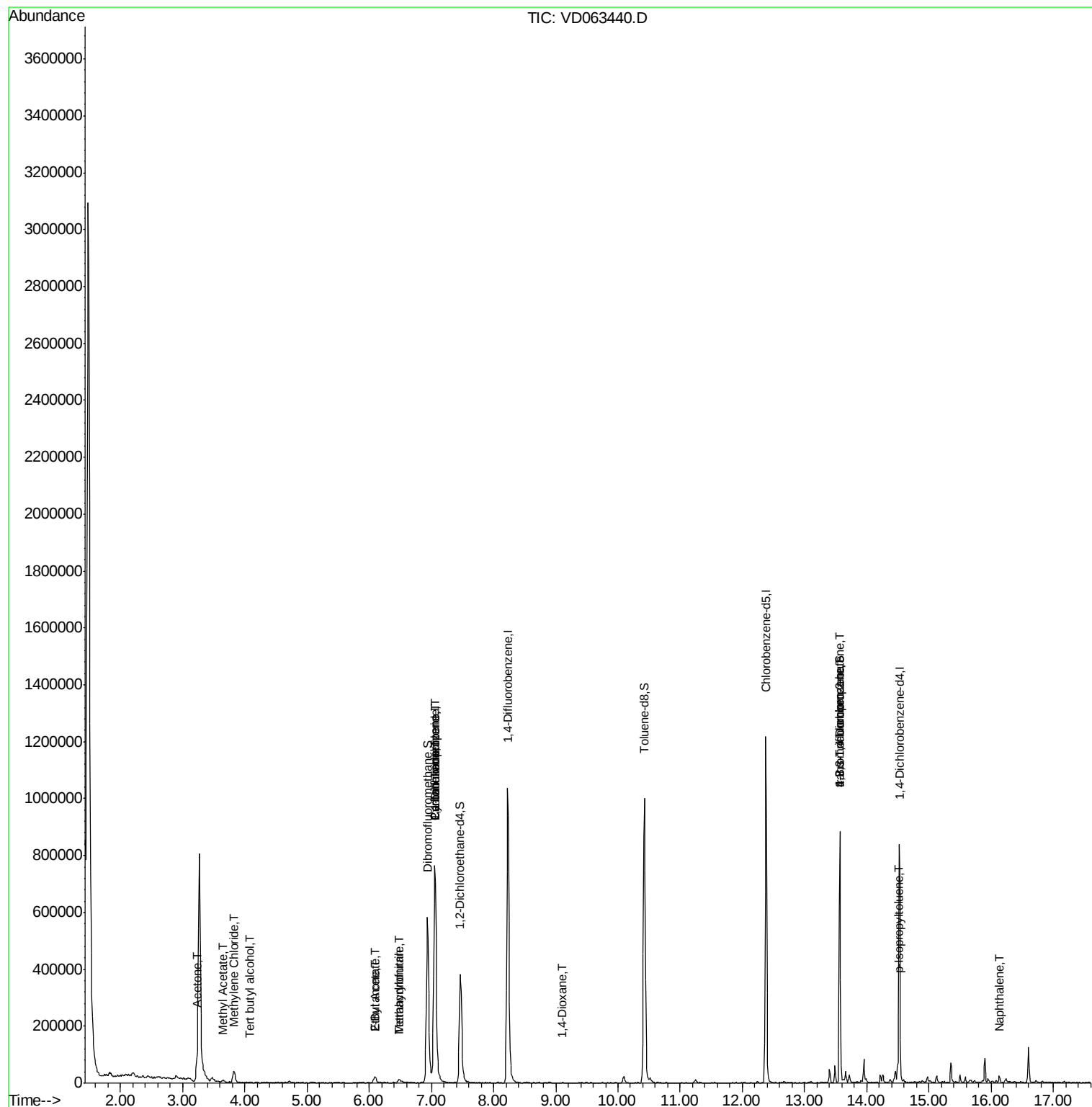
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.07	59	698	1.850	ug/l #	69
16) Acetone	3.23	43	139109	83.064	ug/l #	90
18) Methyl Acetate	3.64	43	13479	4.190	ug/l #	87
20) Methylene Chloride	3.84	84	25305	3.738	ug/l #	76
25) 2-Butanone	6.10	43	47191	28.078	ug/l #	84
29) Tetrahydrofuran	6.48	42	9893	12.433	ug/l	96
31) Cyclohexane	7.06	56	17402	2.273	ug/l #	11
36) 1,1-Dichloropropene	7.06	75	57388	5.672	ug/l #	52
37) Ethyl Acetate	6.10	43	47191	10.383	ug/l #	70
38) Carbon Tetrachloride	7.05	117	74032	4.861	ug/l #	15
41) Methacrylonitrile	6.48	41	8115	1.493	ug/l #	73
49) 1,4-Dioxane	9.12	88	195	2.005	ug/l #	22
76) 1,2,3-Trichloropropane	13.56	75	106401	46.487	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	115111	181.117	ug/l #	3
86) p-Isopropyltoluene	14.50	119	32991	2.785	ug/l	95
95) Naphthalene	16.12	128	13798	2.341	ug/l #	88

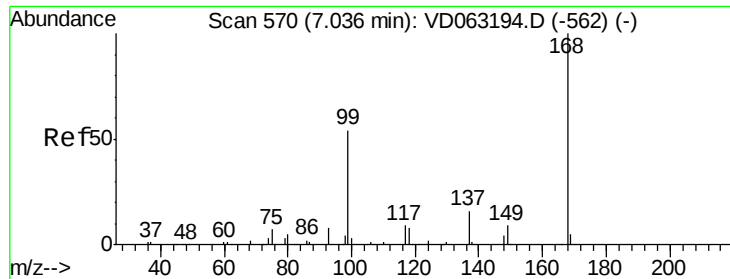
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
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: VD063440.D

Acq: 8 Aug 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

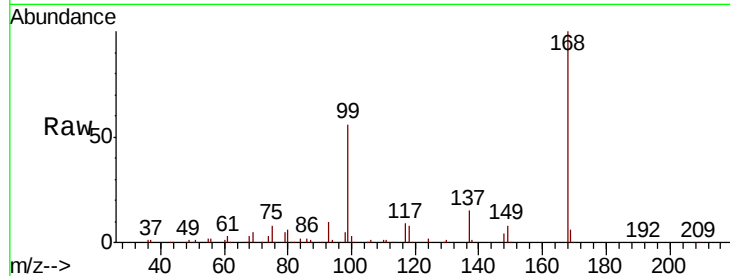
SP-2

Tgt Ion:168 Resp: 774642

Ion Ratio Lower Upper

168 100

99 55.6 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

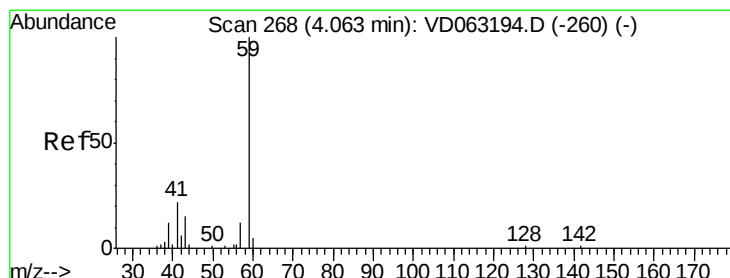
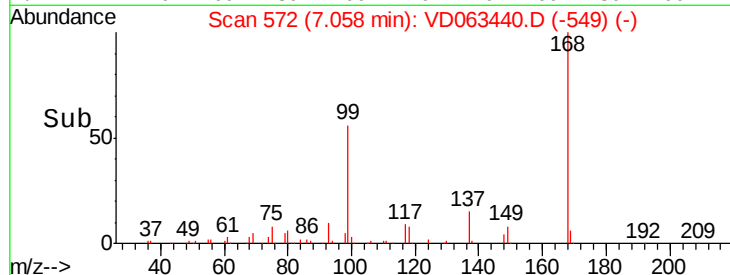
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#11

Tert butyl alcohol

Concen: 1.850 ug/l

RT: 4.07 min Scan# 269

Delta R.T. 0.01 min

Lab File: VD063440.D

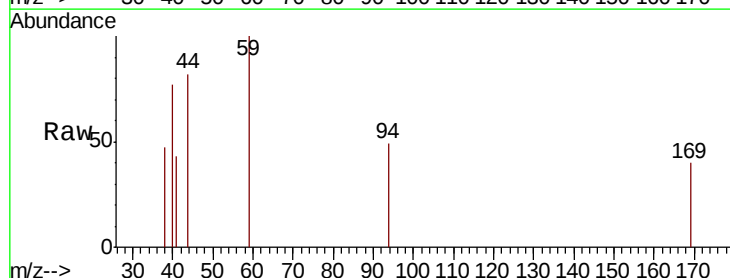
Acq: 8 Aug 2019 16:03

Tgt Ion: 59 Resp: 698

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

4.07

800

600

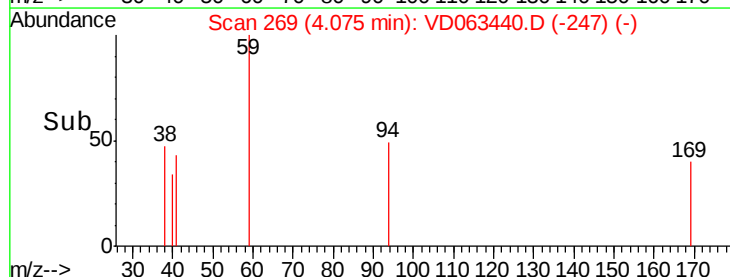
400

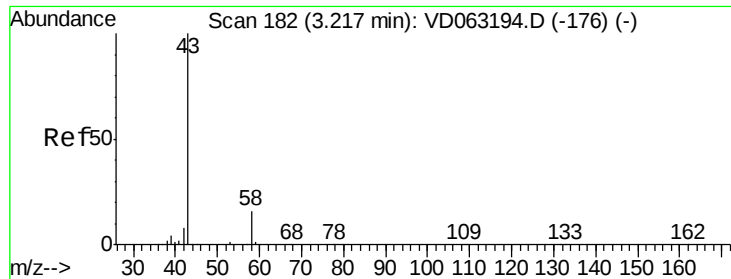
200

0

4.05 4.10

Time-->





#16

Acetone

Concen: 83.064 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

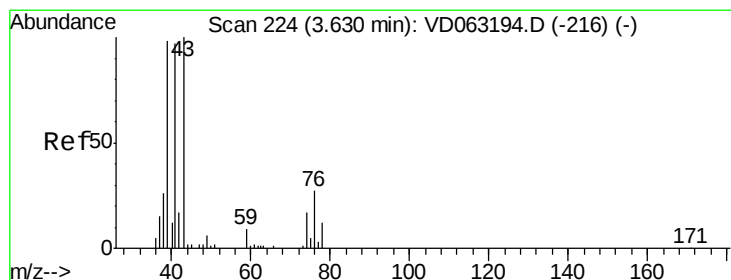
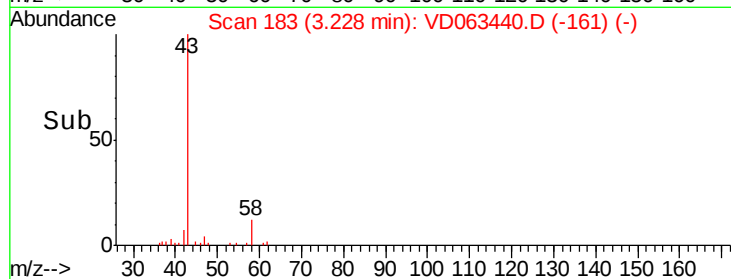
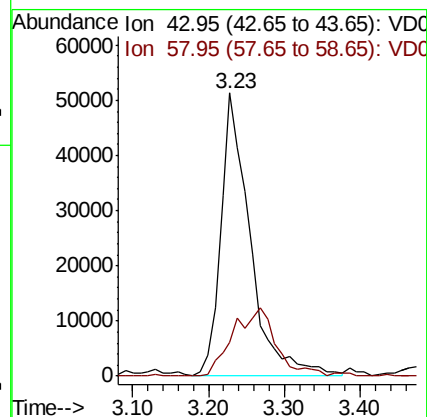
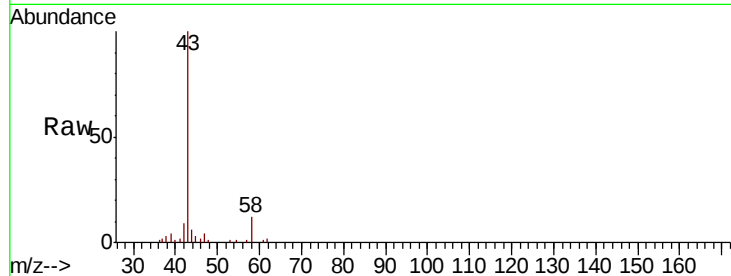
SP-2

Tgt Ion: 43 Resp: 139109

Ion Ratio Lower Upper

43 100

58 12.0 13.0 19.4#



#18

Methyl Acetate

Concen: 4.190 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.01 min

Lab File: VD063440.D

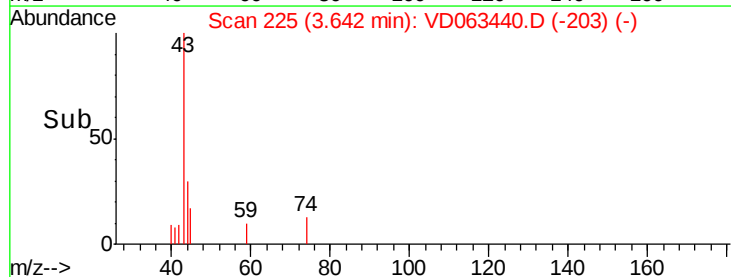
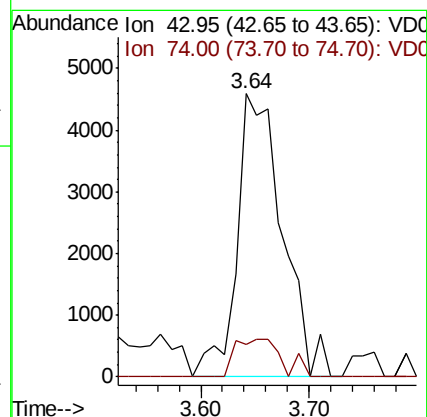
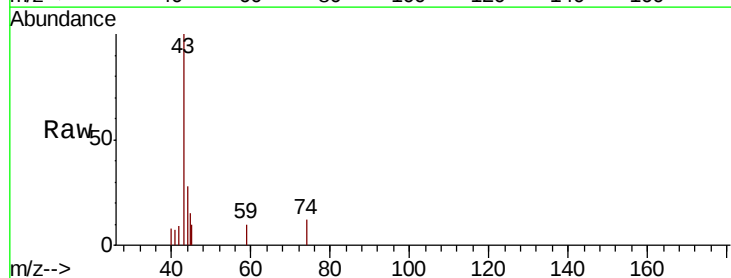
Acq: 8 Aug 2019 16:03

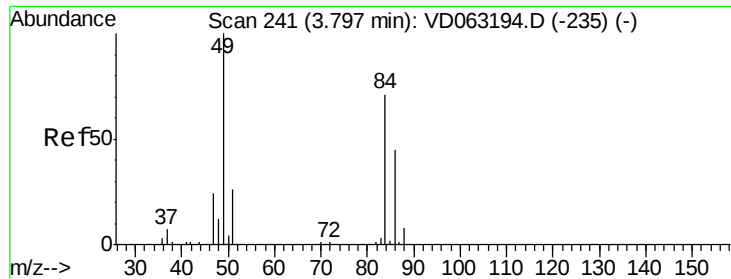
Tgt Ion: 43 Resp: 13479

Ion Ratio Lower Upper

43 100

74 11.6 13.8 20.8#

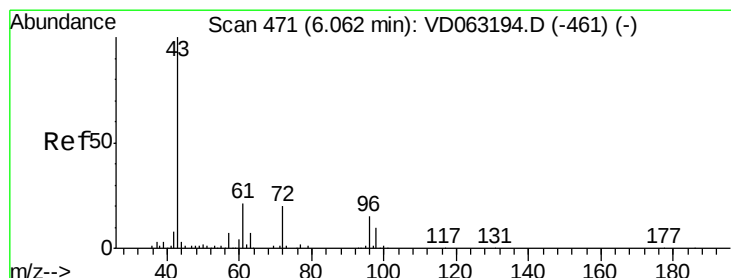
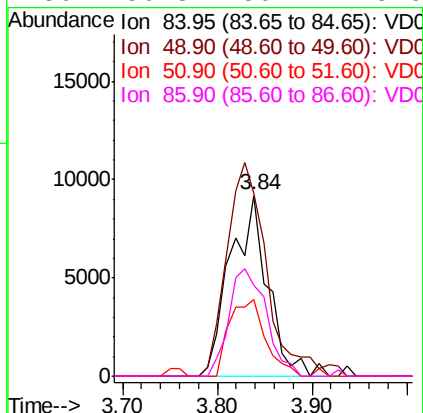
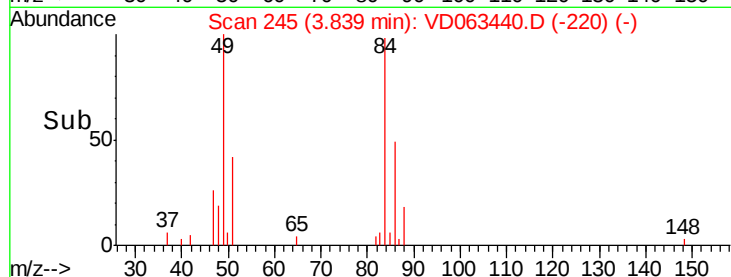
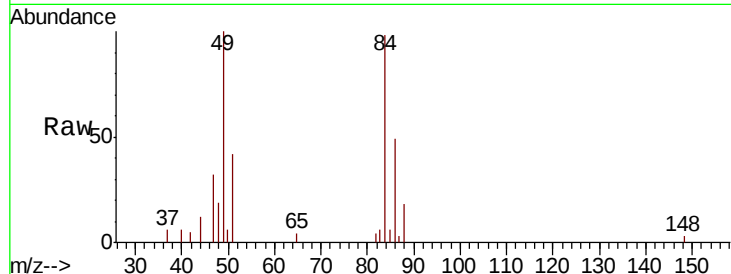




#20
Methylene Chloride
Concen: 3.738 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.04 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

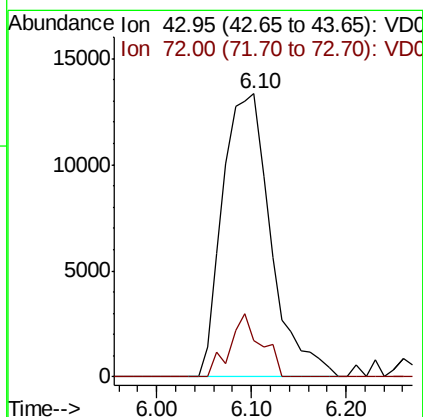
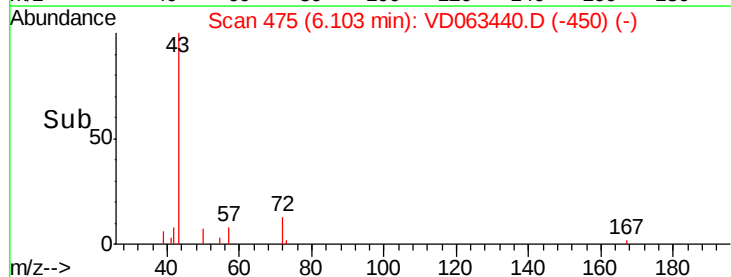
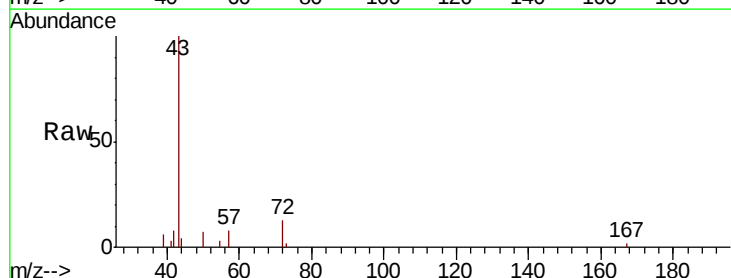
Instrument :
MSVOA_D
ClientSampleId :
SP-2

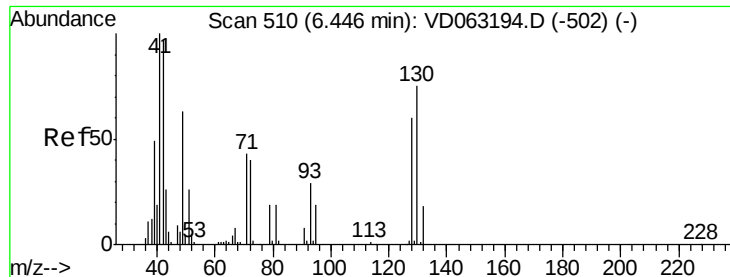
Tgt Ion: 84 Resp: 25305
Ion Ratio Lower Upper
84 100
49 101.6 112.5 168.7#
51 42.9 29.6 44.4
86 50.3 50.4 75.6#



#25
2-Butanone
Concen: 28.078 ug/l
RT: 6.10 min Scan# 475
Delta R.T. 0.04 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

Tgt Ion: 43 Resp: 47191
Ion Ratio Lower Upper
43 100
72 12.9 16.3 24.5#





#29

Tetrahydrofuran

Concen: 12.433 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

SP-2

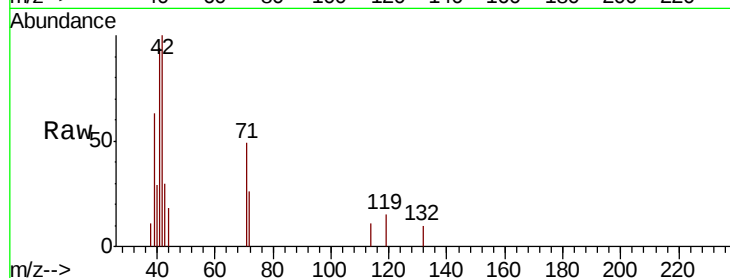
Tgt Ion: 42 Resp: 9893

Ion Ratio Lower Upper

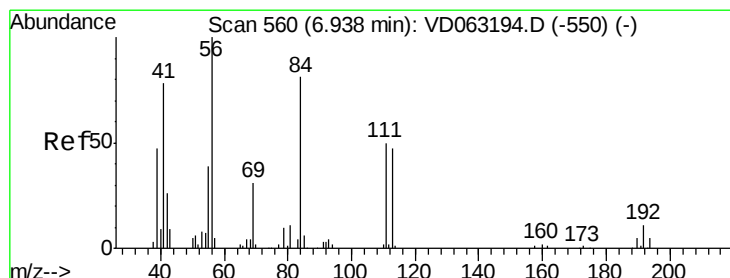
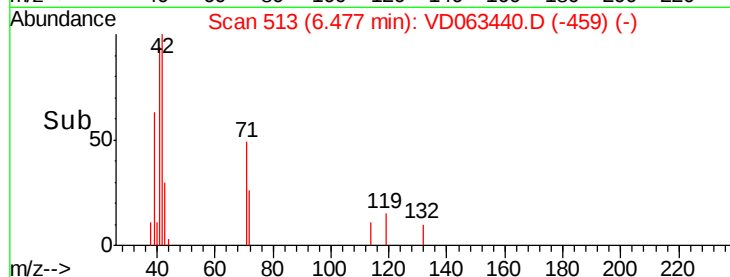
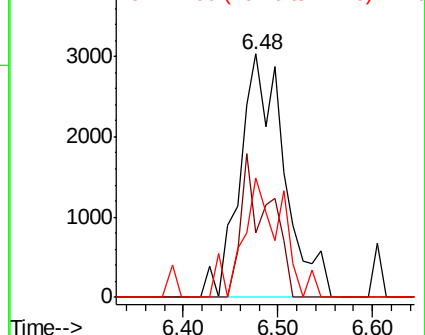
42 100

72 37.5 33.4 50.2

71 43.7 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: 2.273 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

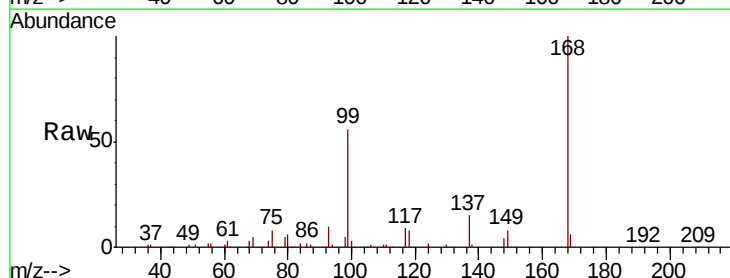
Tgt Ion: 56 Resp: 17402

Ion Ratio Lower Upper

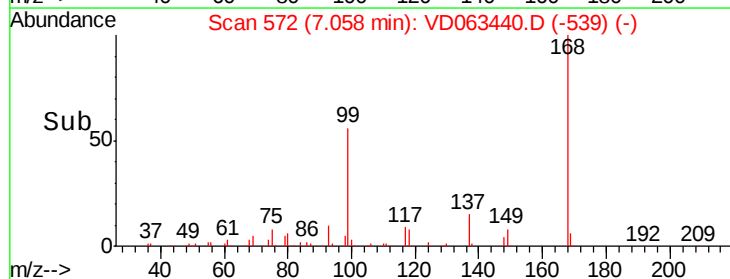
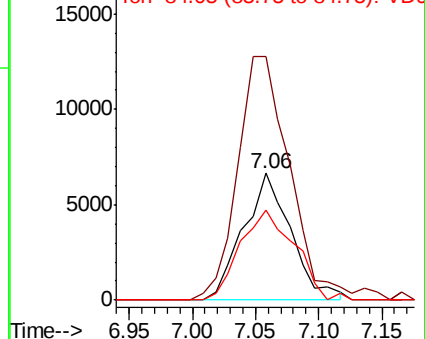
56 100

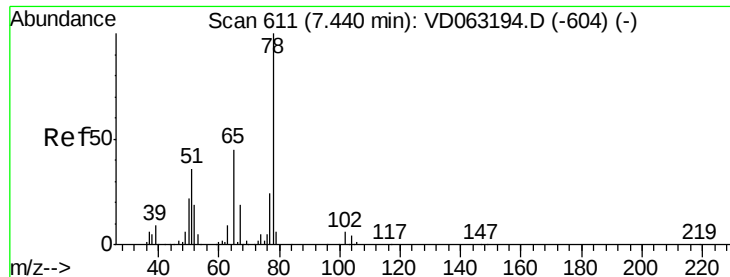
69 191.8 24.5 36.7#

84 71.2 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

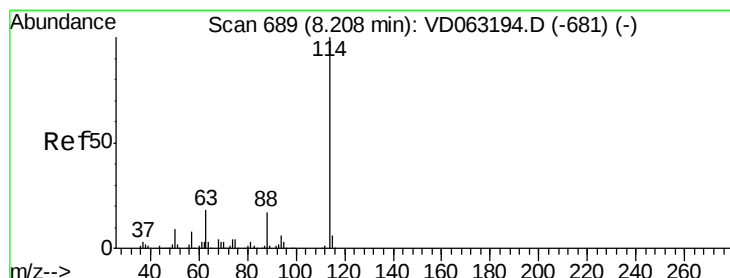
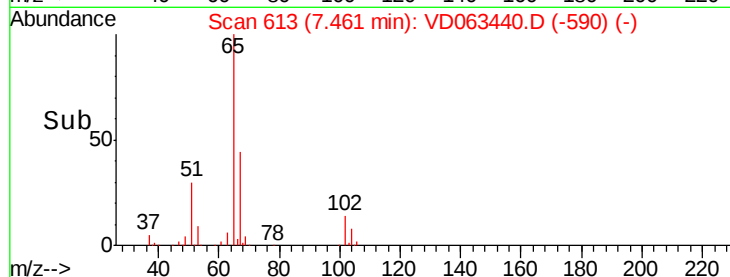
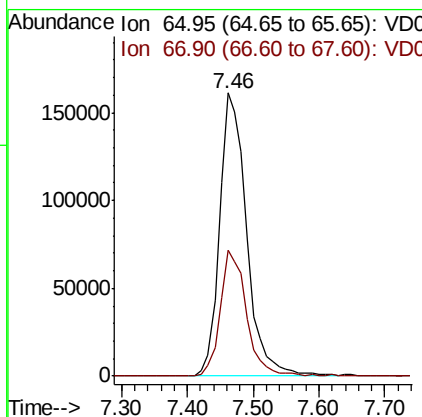
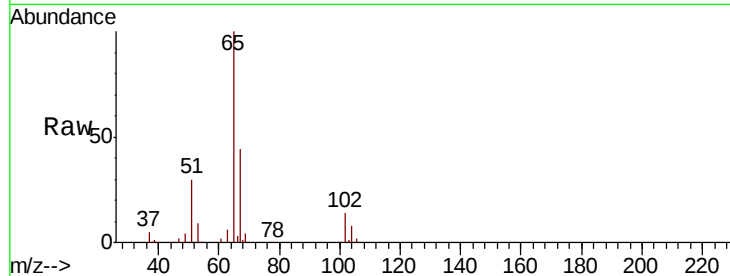




#33
 1,2-Dichloroethane-d4
 Concen: 53.747 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.02 min
 Lab File: VD063440.D
 Acq: 8 Aug 2019 16:03

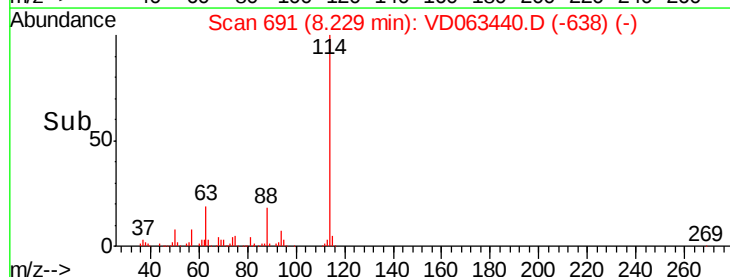
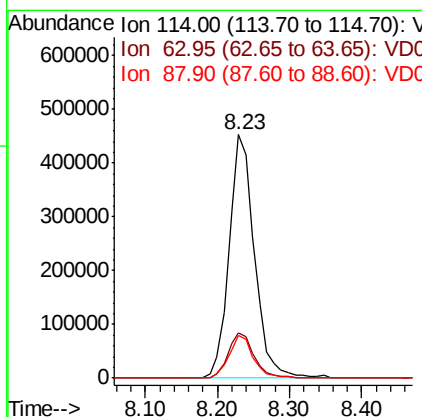
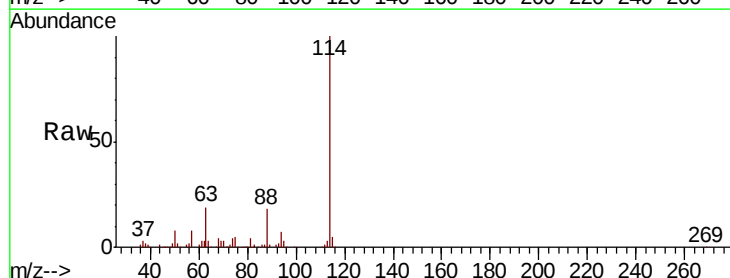
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-2

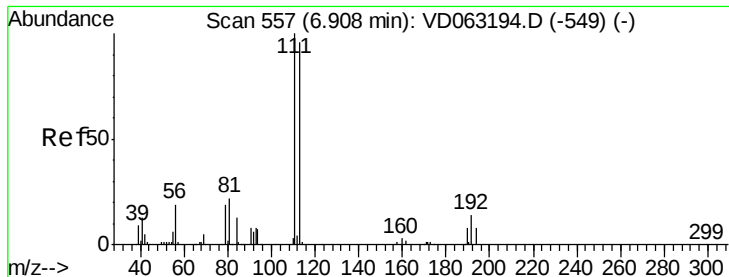
Tgt Ion: 65 Resp: 461974
 Ion Ratio Lower Upper
 65 100
 67 44.4 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063440.D
 Acq: 8 Aug 2019 16:03

Tgt Ion: 114 Resp: 1108570
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 35.2
 88 17.6 0.0 34.6





#35

Dibromofluoromethane

Concen: 51.696 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.03 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

Instrument :

MSVOA_D

ClientSampleID :

SP-2

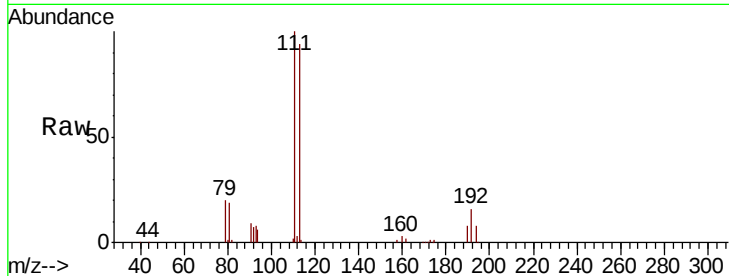
Tgt Ion:113 Resp: 489290

Ion Ratio Lower Upper

113 100

111 106.0 83.2 124.8

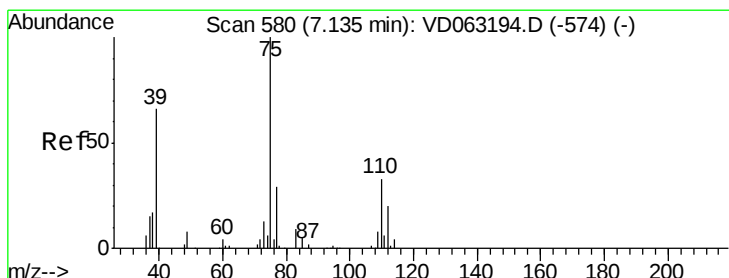
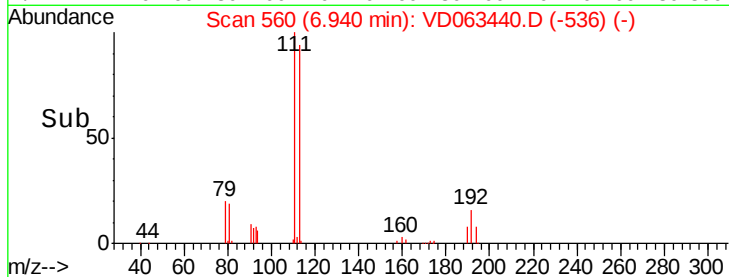
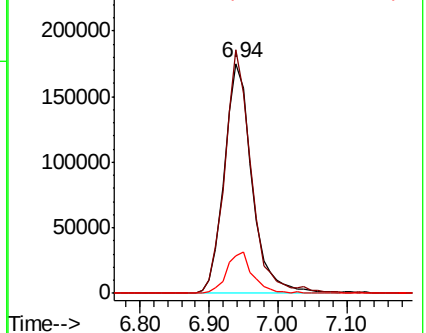
192 16.6 11.8 17.8



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: 5.672 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

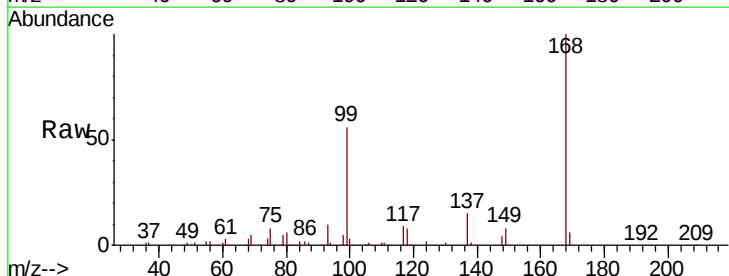
Tgt Ion: 75 Resp: 57388

Ion Ratio Lower Upper

75 100

110 8.5 16.1 48.2#

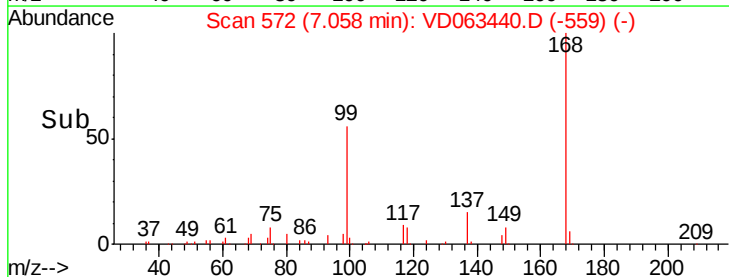
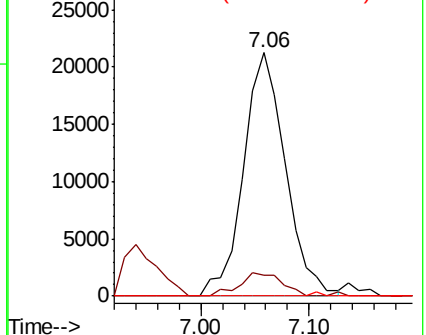
77 0.0 22.7 34.1#

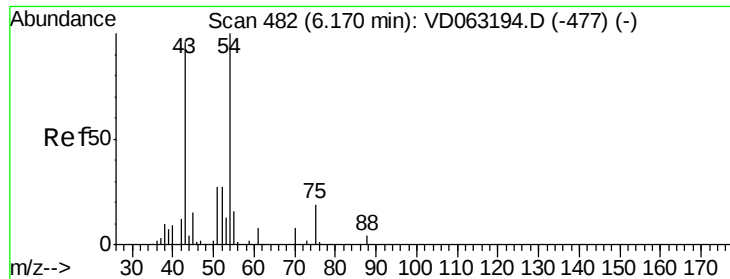


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 10.383 ug/l

RT: 6.10 min Scan# 475

Delta R.T. -0.07 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

SP-2

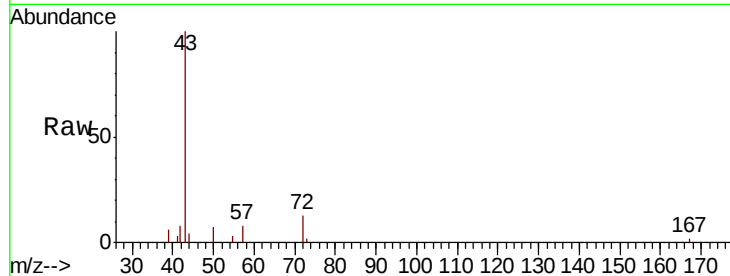
Tgt Ion: 43 Resp: 47191

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

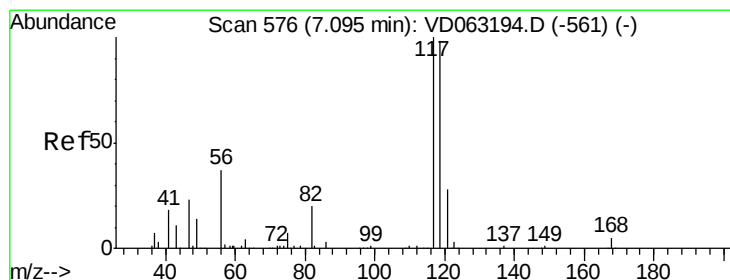
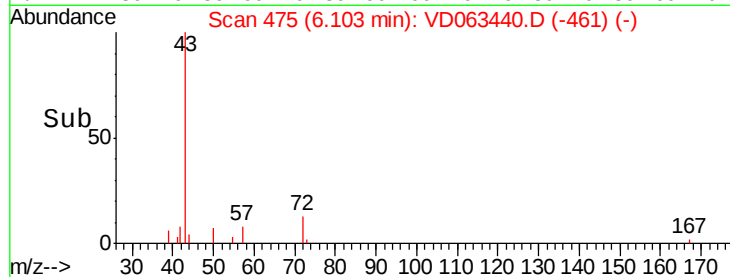
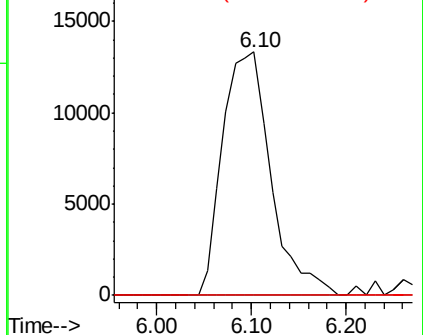
70 0.0 5.1 7.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 4.861 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

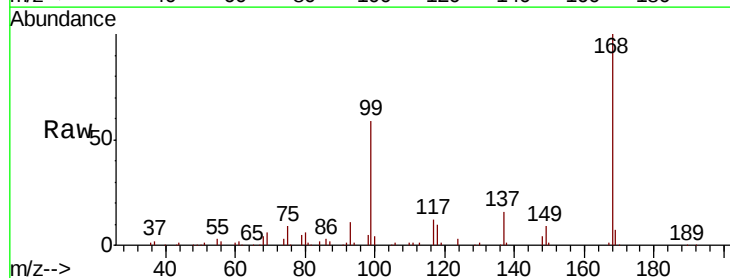
Tgt Ion: 117 Resp: 74032

Ion Ratio Lower Upper

117 100

119 5.5 78.2 117.2#

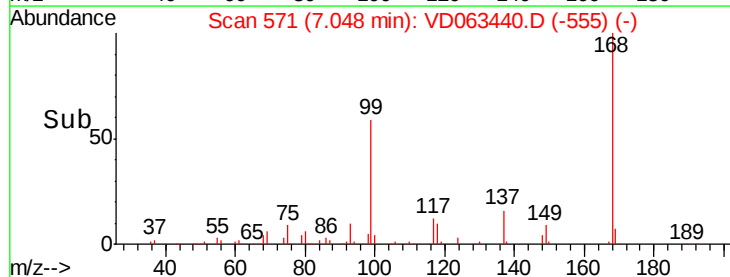
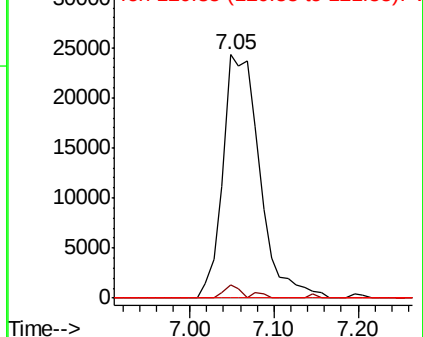
121 0.0 22.1 33.1#

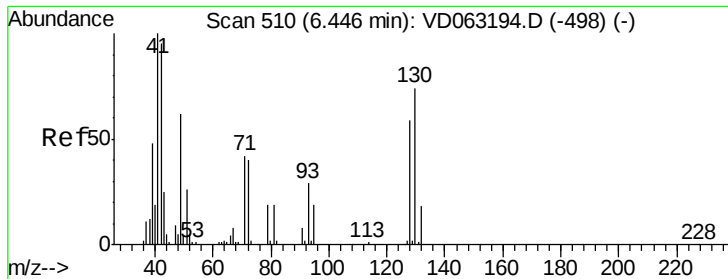


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

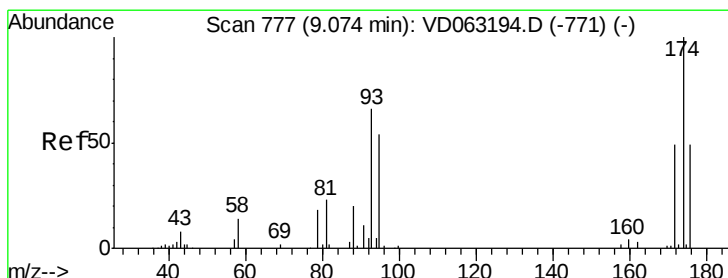
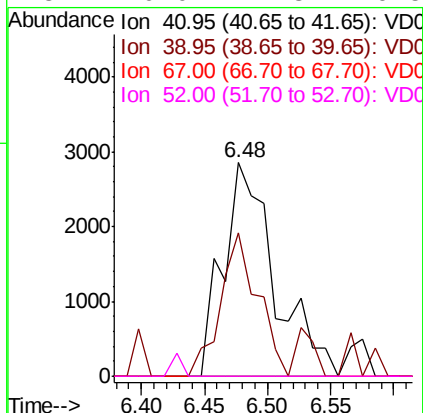
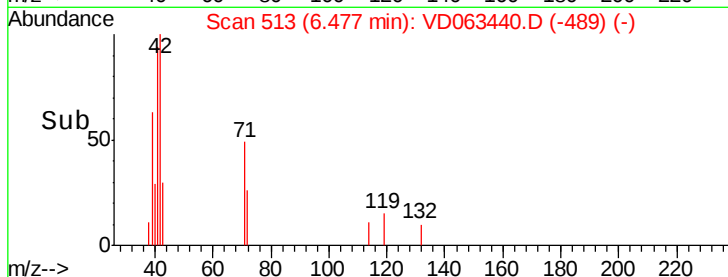
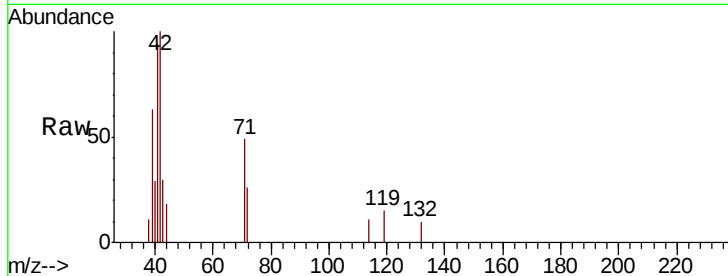




#41
Methacrylonitrile
Concen: 1.493 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.03 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

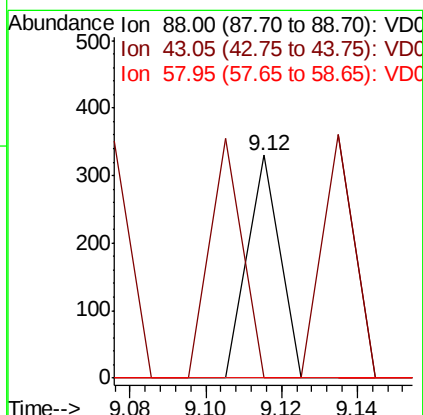
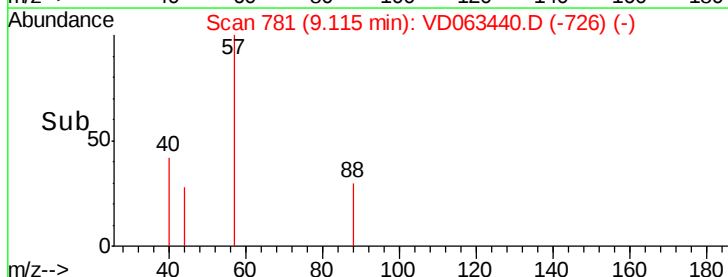
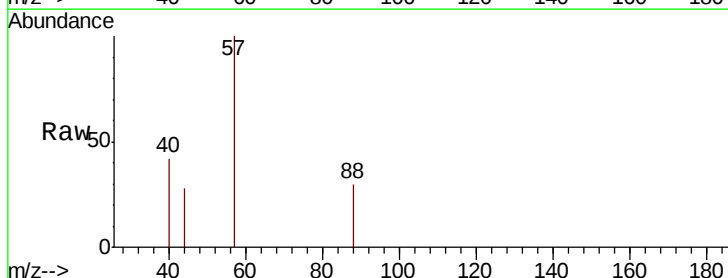
Instrument :
MSVOA_D
ClientSampled :
SP-2

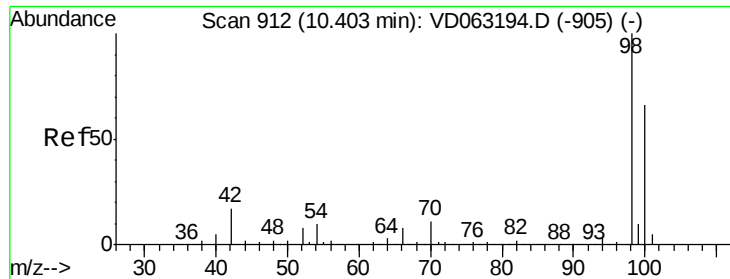
Tgt Ion: 41 Resp: 8115
Ion Ratio Lower Upper
41 100
39 67.1 38.4 57.6#
67 0.0 6.7 10.1#
52 0.0 4.3 6.5#



#49
1,4-Dioxane
Concen: 2.005 ug/l
RT: 9.12 min Scan# 781
Delta R.T. 0.04 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

Tgt Ion: 88 Resp: 195
Ion Ratio Lower Upper
88 100
43 0.0 30.7 46.1#
58 0.0 56.5 84.7#

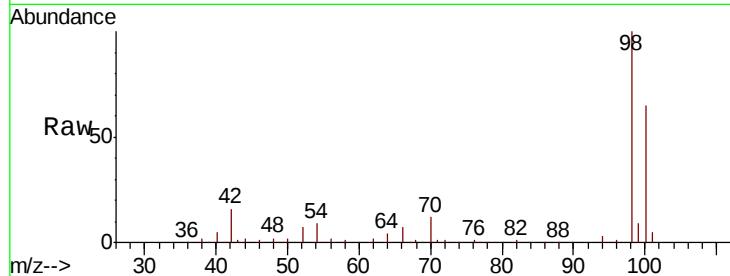




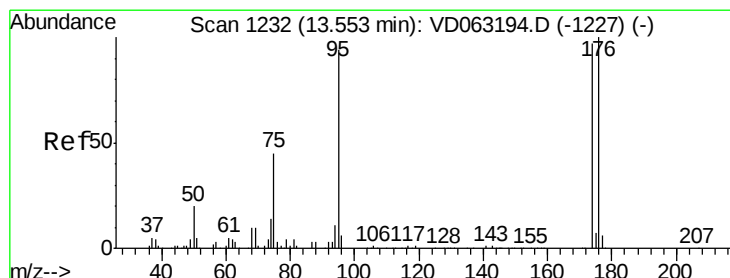
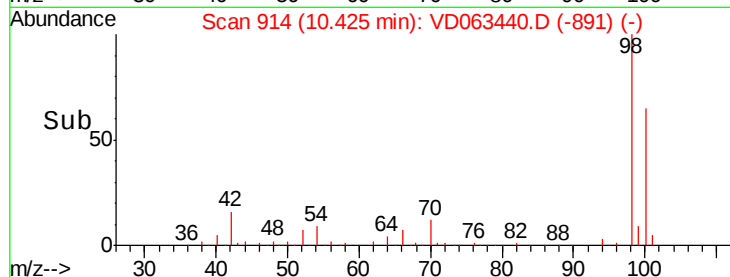
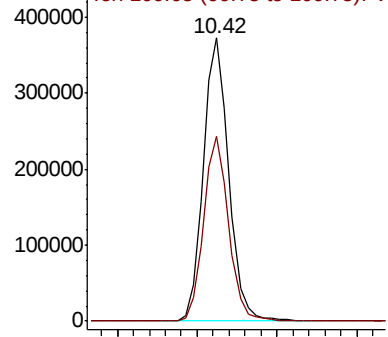
#50
Toluene-d8
Concen: 39.151 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
SP-2

Tgt Ion: 98 Resp: 829295
Ion Ratio Lower Upper
98 100
100 65.1 53.2 79.8

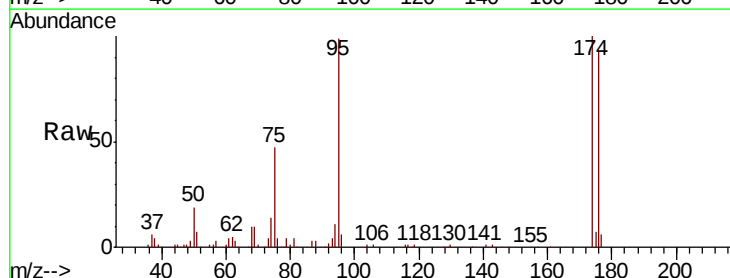


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

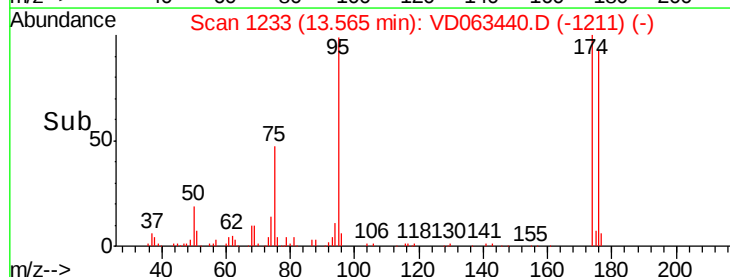
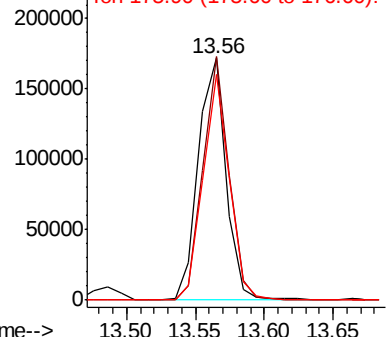


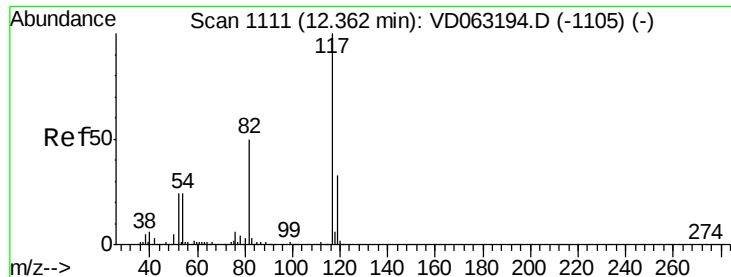
#62
4-Bromofluorobenzene
Concen: 24.960 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

Tgt Ion: 95 Resp: 240933
Ion Ratio Lower Upper
95 100
174 100.6 0.0 205.4
176 93.2 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

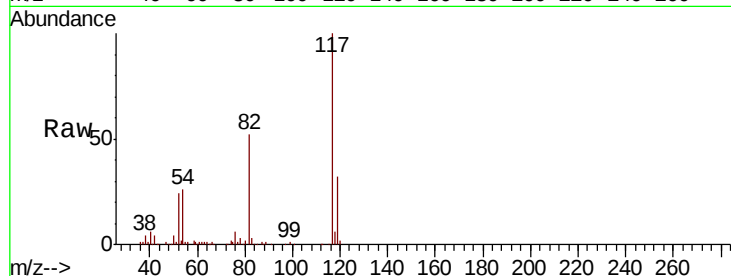




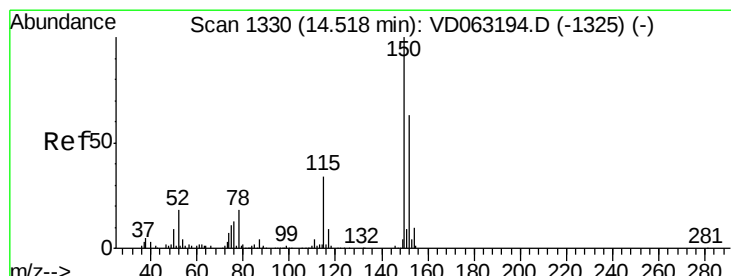
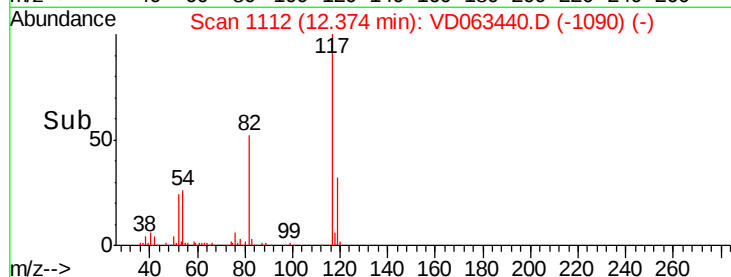
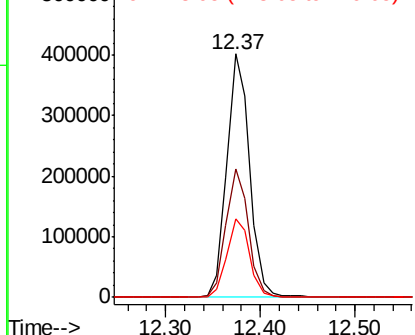
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
SP-2

Tgt Ion:117 Resp: 668150
Ion Ratio Lower Upper
117 100
82 52.5 40.1 60.1
119 32.4 26.5 39.7

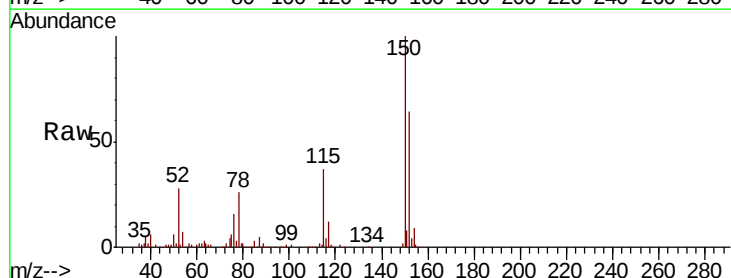


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

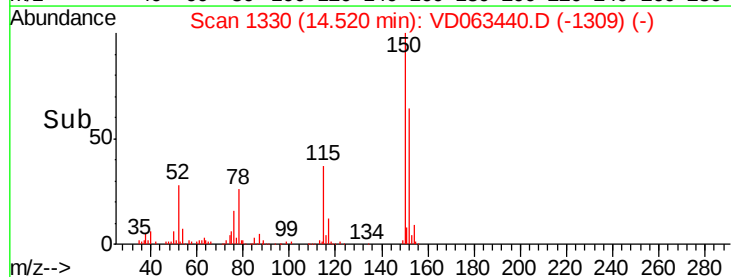
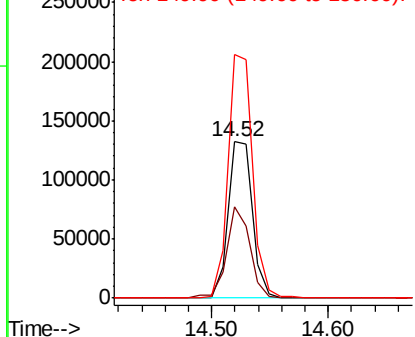


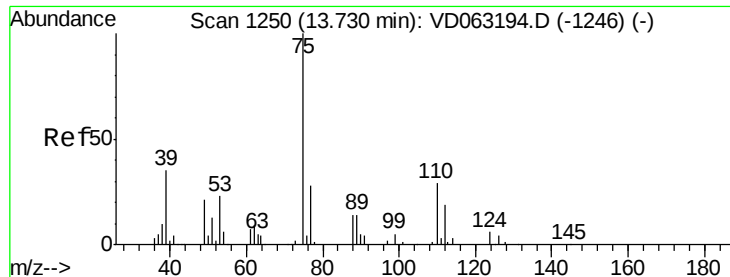
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063440.D
Acq: 8 Aug 2019 16:03

Tgt Ion:152 Resp: 190557
Ion Ratio Lower Upper
152 100
115 58.2 27.5 82.4
150 155.8 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





#76

1,2,3-Trichloropropane

Concen: 46.487 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

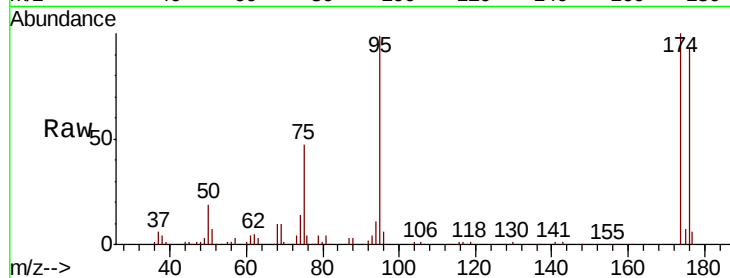
SP-2

Tgt Ion: 75 Resp: 106401

Ion Ratio Lower Upper

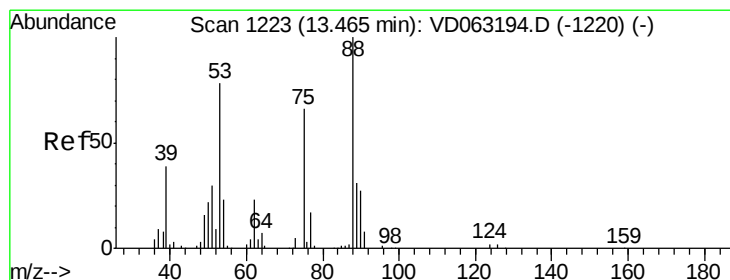
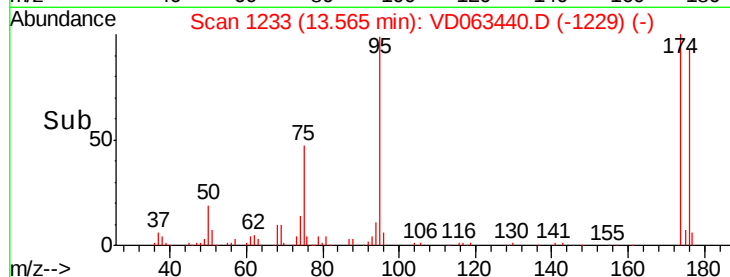
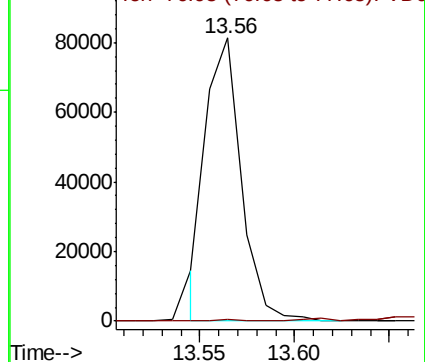
75 100

77 0.6 16.0 48.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 181.117 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

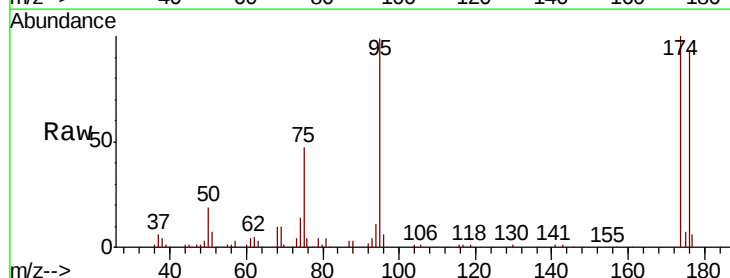
Tgt Ion: 75 Resp: 115111

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

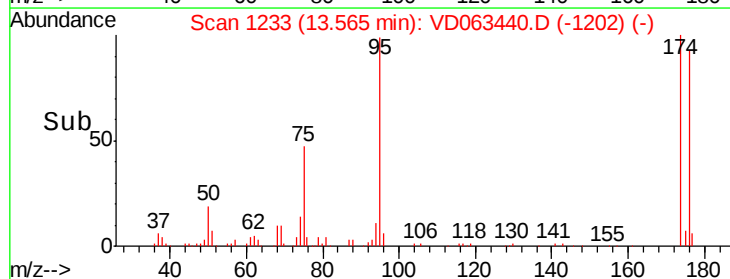
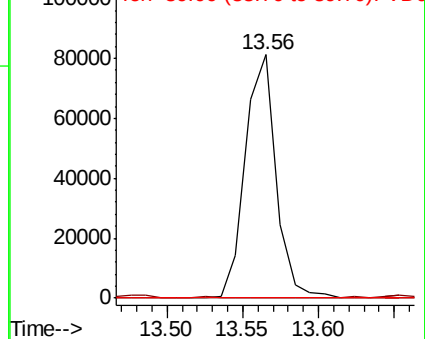
89 0.0 37.4 56.0#

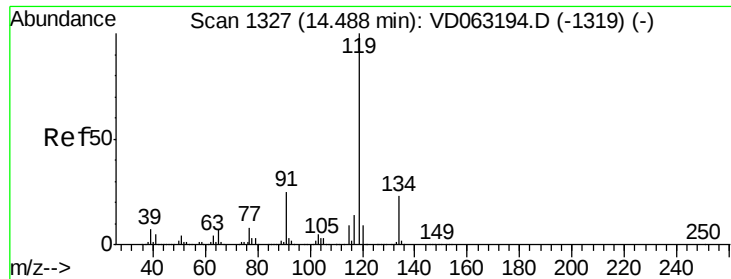


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#86

p-Isopropyltoluene

Concen: 2.785 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

SP-2

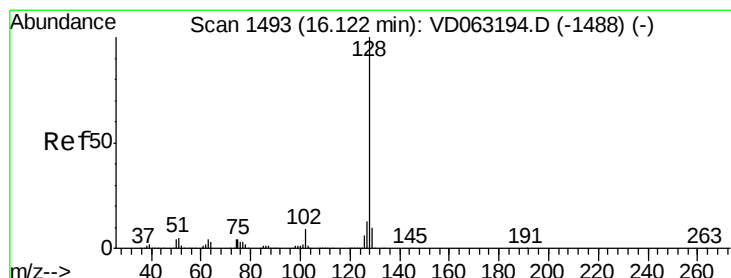
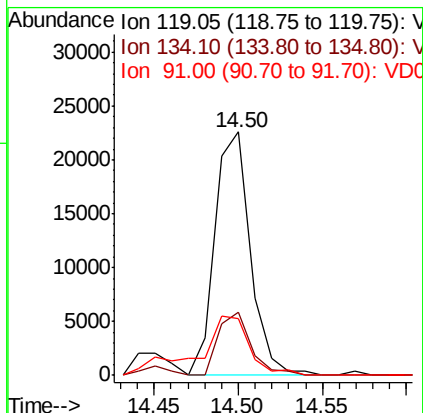
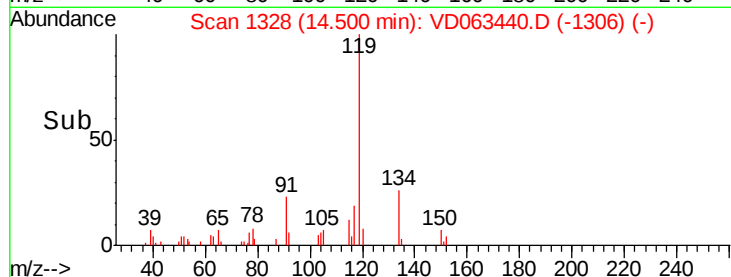
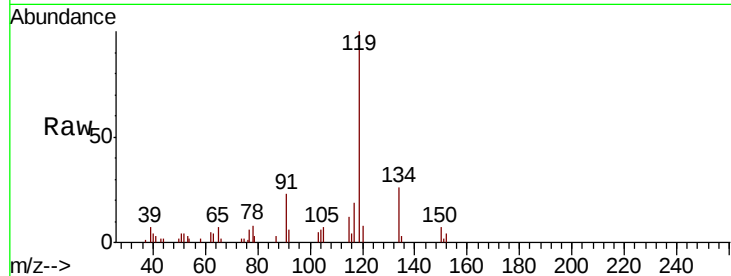
Tgt Ion:119 Resp: 32991

Ion Ratio Lower Upper

119 100

134 25.9 11.5 34.5

91 23.3 12.6 37.6



#95

Naphthalene

Concen: 2.341 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD063440.D

Acq: 8 Aug 2019 16:03

Tgt Ion:128 Resp: 13798

Ion Ratio Lower Upper

128 100

127 17.0 10.2 15.4#

129 14.8 7.8 11.8#

