

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081319\
 Data File : VD063565.D
 Acq On : 14 Aug 2019 10:16
 Operator : JC/SY
 Sample : K4095-07RE
 Misc : 6.50µl/5ml/MSVOA D/SOIL
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-04-080919-BRE

Quant Time: Aug 14 11:13:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	834572	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	1224402	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	912373	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	349650	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	445348	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
35) Dibromofluoromethane	6.94	113	27448	2.66	ug/l	0.00
Spiked Amount			Recovery	=	5.32%	
50) Toluene-d8	10.41	98	851328	37.55	ug/l	0.00
Spiked Amount			Recovery	=	75.10%	
62) 4-Bromofluorobenzene	13.55	95	306240	29.80	ug/l	0.00
Spiked Amount			Recovery	=	59.60%	

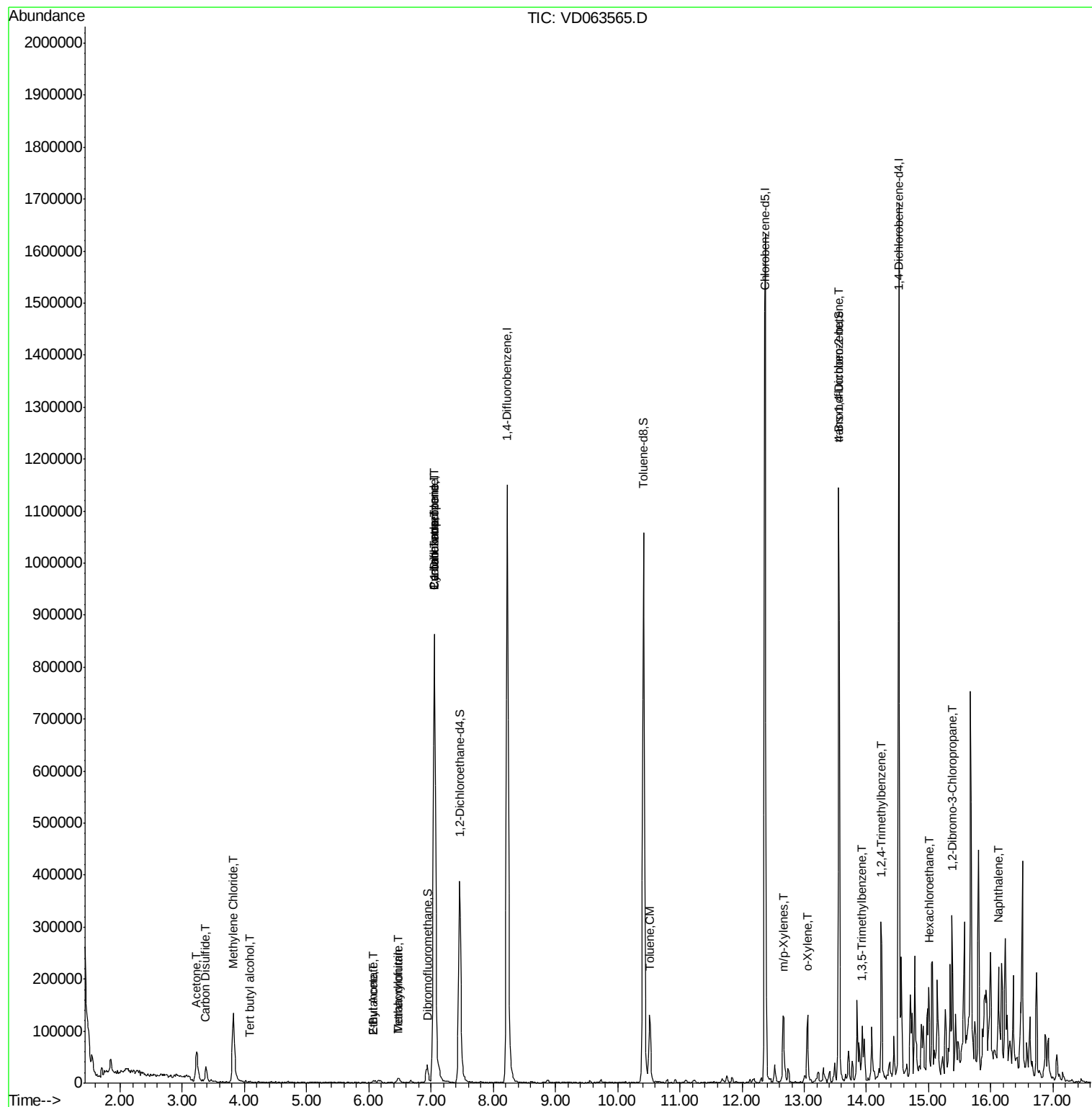
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.08	59	648	1.669	ug/l #	71
16) Acetone	3.23	43	117591	64.844	ug/l	95
17) Carbon Disulfide	3.38	76	50988	2.396	ug/l #	94
20) Methylene Chloride	3.82	84	83443	10.641	ug/l #	89
25) 2-Butanone	6.07	43	9047	5.051	ug/l #	80
29) Tetrahydrofuran	6.48	42	7741	9.275	ug/l #	86
31) Cyclohexane	7.05	56	19405	2.409	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	60685	5.607	ug/l #	56
37) Ethyl Acetate	6.07	43	9047	1.995	ug/l #	73
38) Carbon Tetrachloride	7.05	117	82261	5.043	ug/l #	17
41) Methacrylonitrile	6.48	41	6372	1.116	ug/l #	78
52) Toluene	10.51	92	60804	3.963	ug/l	88
68) m/p-Xylenes	12.67	106	37505	3.590	ug/l	85
69) o-Xylene	13.05	106	27860	2.771	ug/l	88
80) 1,3,5-Trimethylbenzene	13.94	105	45952	2.365	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.55	75	143742	133.275	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.23	105	144849	8.056	ug/l	89
90) Hexachloroethane	15.00	117	12244	2.345	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	15.38	75	1060	1.525	ug/l #	1
95) Naphthalene	16.12	128	93537	8.992	ug/l	97

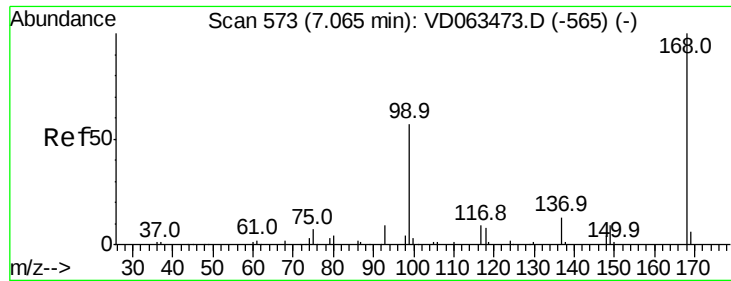
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081319\
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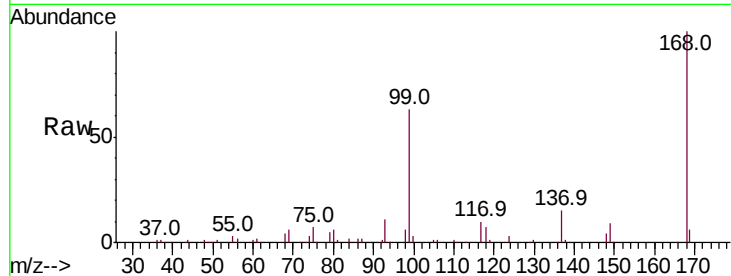


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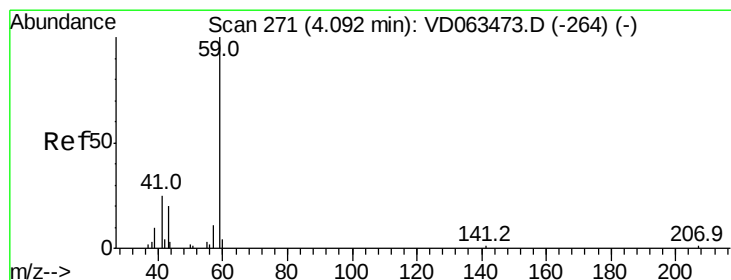
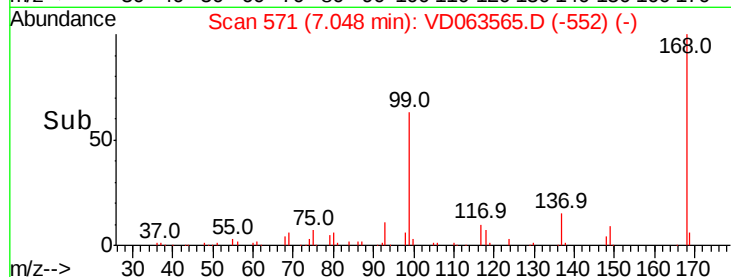
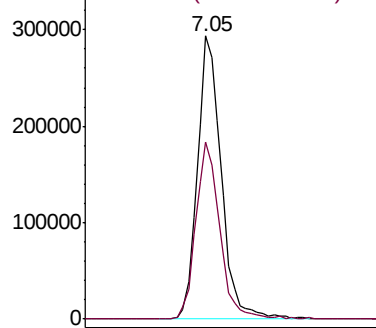
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.02 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-04-080919-BRE

Tot Ion:168 Resp: 834572
 Ion Ratio Lower Upper
 168 100
 99 62.5 46.7 70.1



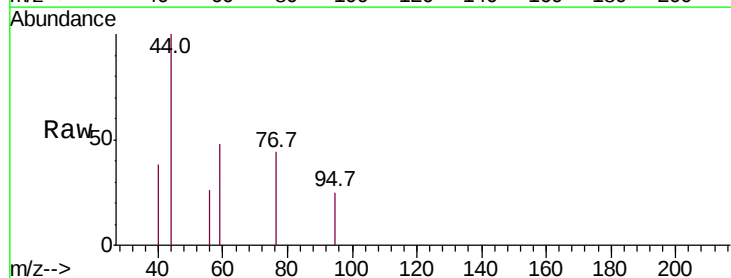
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



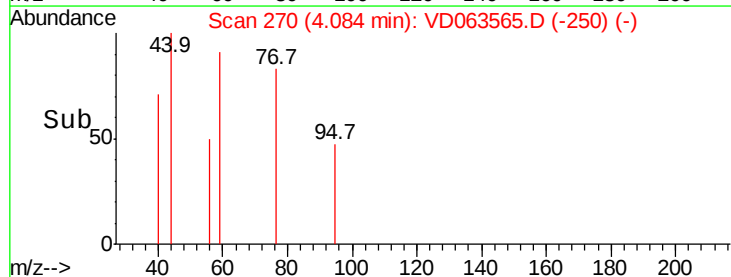
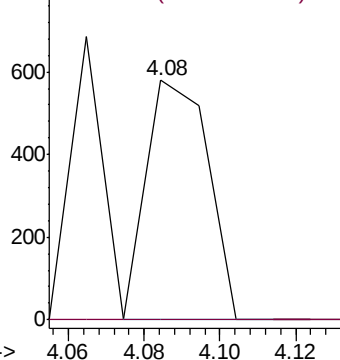
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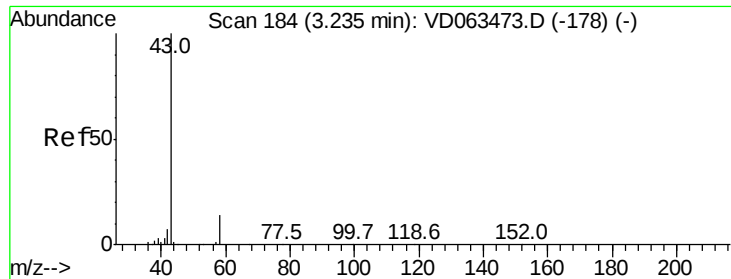
Tert butyl alcohol
 Concen: 1.669 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. -0.01 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

Tgt Ion: 59 Resp: 648
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#



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





#16

Acetone

Concen: 64.844 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD063565.D

Acq: 14 Aug 2019 10:16

Instrument :

MSVOA_D

ClientSampleId :

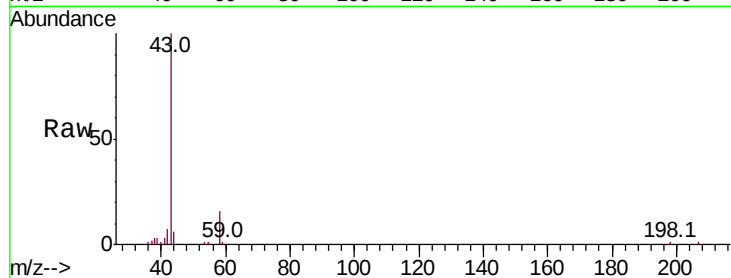
SU-04-080919-BRE

Tot Ion: 43 Resp: 117591

Ion Ratio Lower Upper

43 100

58 16.5 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

40000

30000

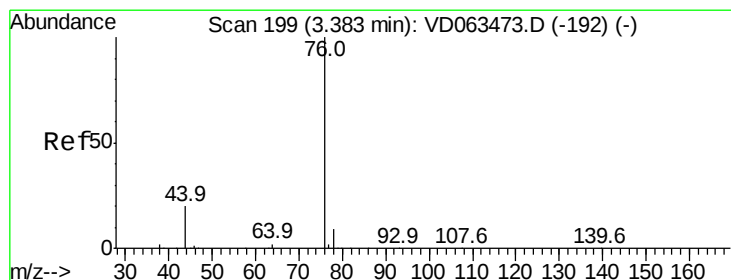
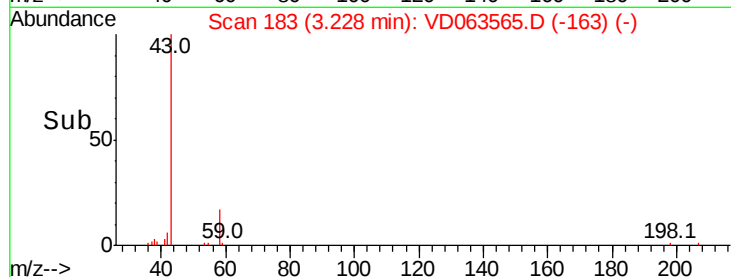
20000

10000

0

Time-->

3.10 3.20 3.30 3.40



#17

Carbon Disulfide

Concen: 2.396 ug/l

RT: 3.38 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD063565.D

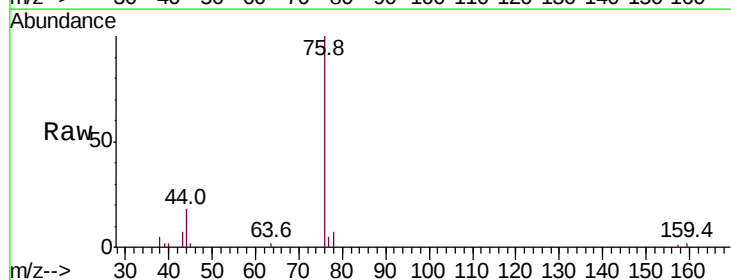
Acq: 14 Aug 2019 10:16

Tgt Ion: 76 Resp: 50988

Ion Ratio Lower Upper

76 100

78 7.0 7.4 11.0#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.38

20000

15000

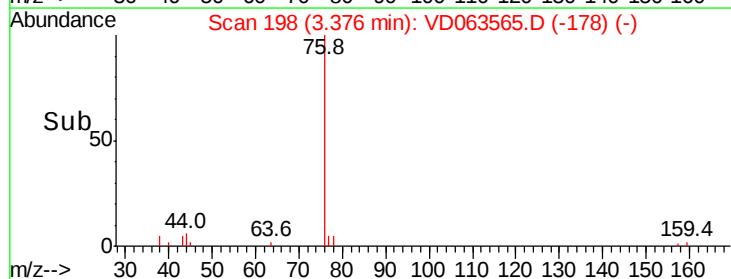
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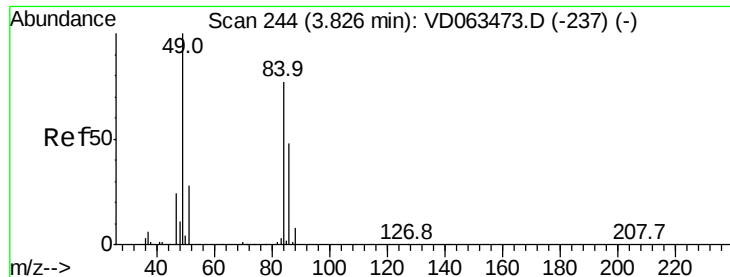
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0

Time-->

3.30 3.40 3.50

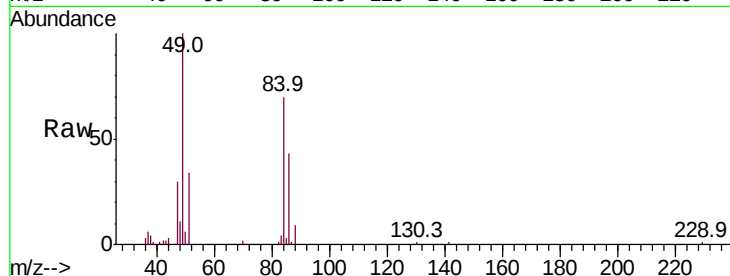




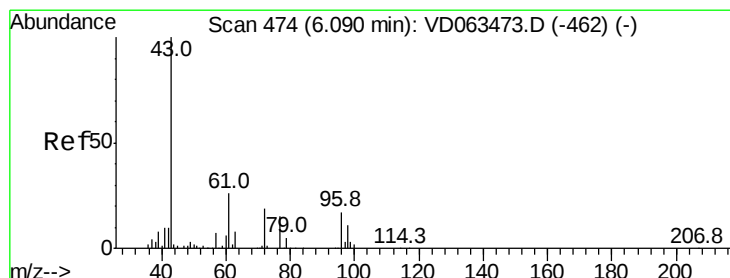
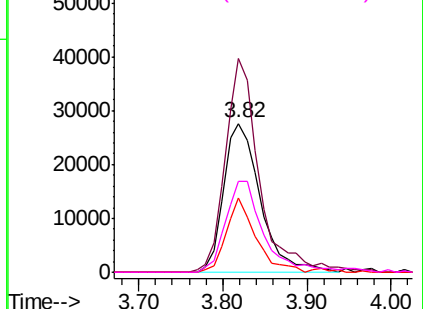
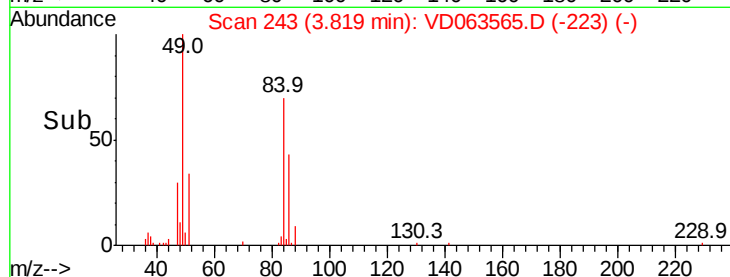
#20
Methvlene Chloride
Concen: 10.641 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Instrument :
MSVOA_D
ClientSampleId :
SU-04-080919-BRE

Tot Ion: 84 Resp: 83443
Ion Ratio Lower Upper
84 100
49 143.7 103.4 155.2
51 49.6 28.5 42.7#
86 61.2 49.4 74.2

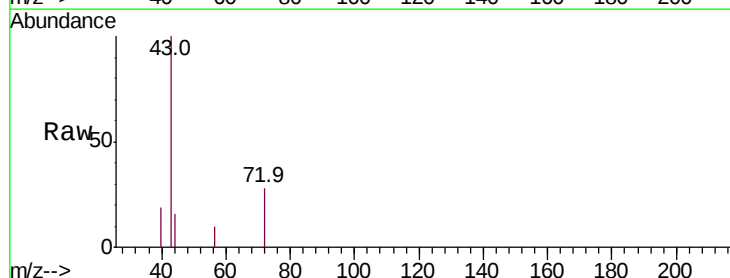


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

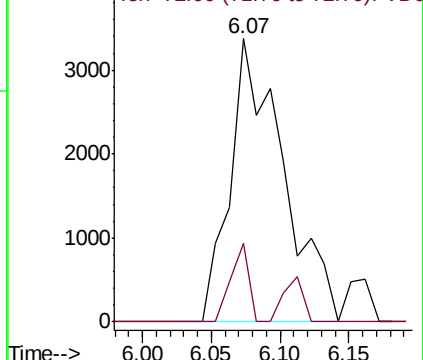
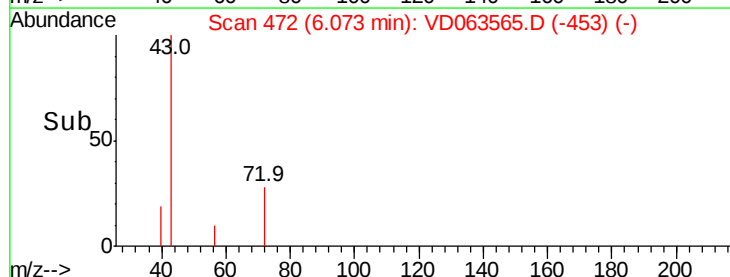


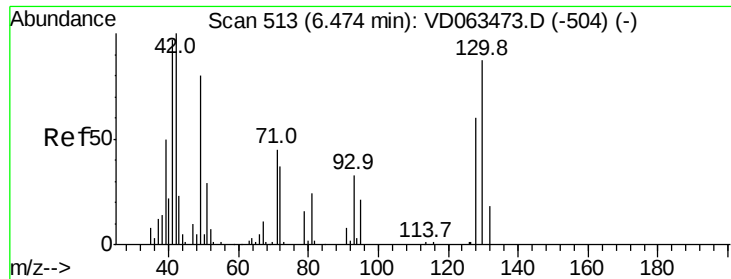
#25
2-Butanone
Concen: 5.051 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.02 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Tgt Ion: 43 Resp: 9047
Ion Ratio Lower Upper
43 100
72 27.8 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

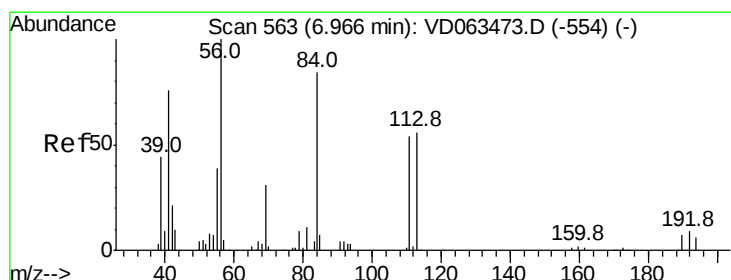
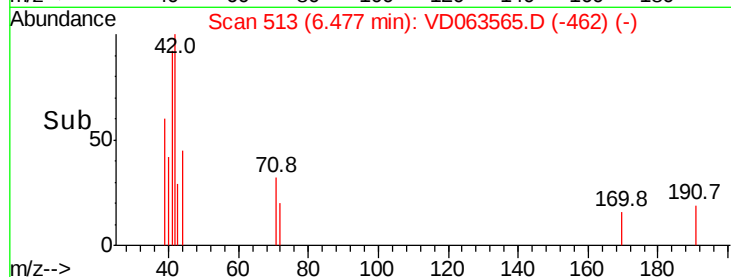
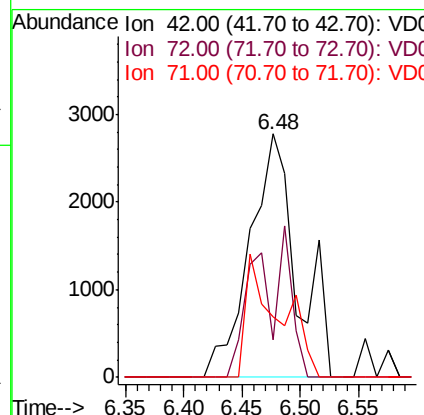
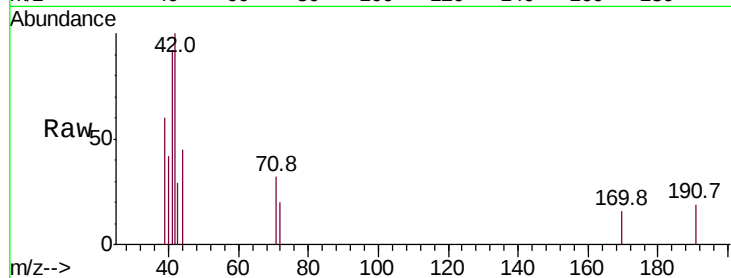




#29
Tetrahydrofuran
Concen: 9.275 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.00 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

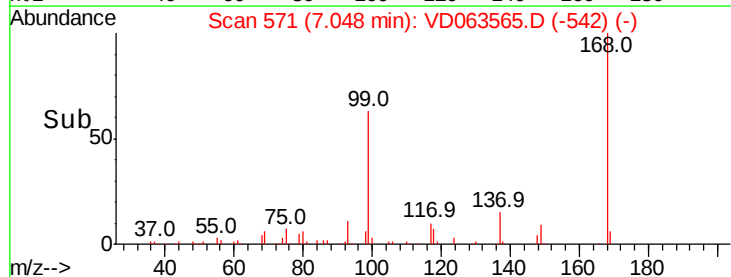
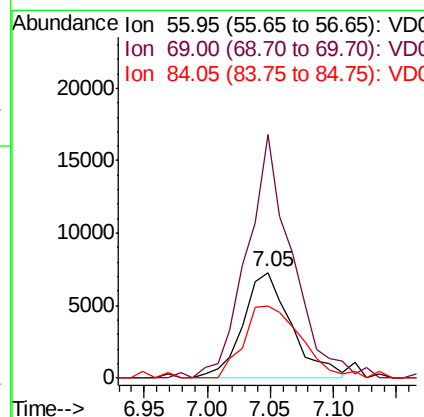
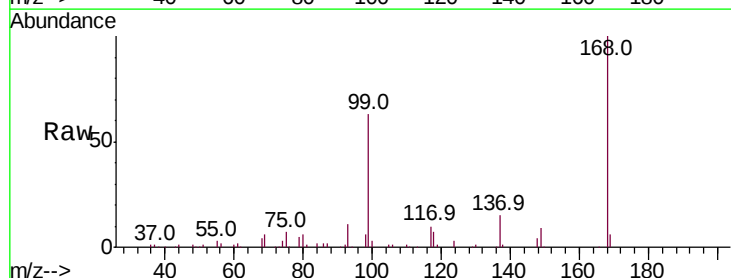
Instrument :
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ClientSampleId :
SU-04-080919-BRE

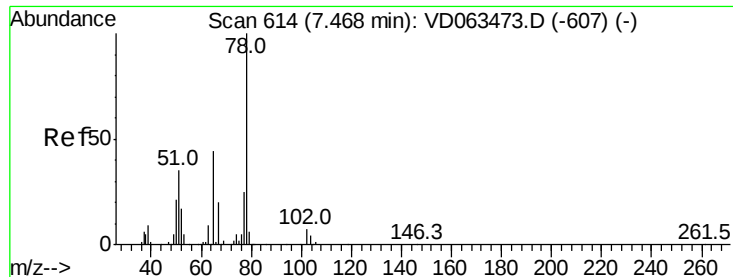
Tot Ion: 42 Resp: 7741
Ion Ratio Lower Upper
42 100
72 27.3 31.5 47.3#
71 36.4 33.8 50.8



#31
Cyclohexane
Concen: 2.409 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Tgt Ion: 56 Resp: 19405
Ion Ratio Lower Upper
56 100
69 230.7 25.0 37.6#
84 68.2 69.7 104.5#

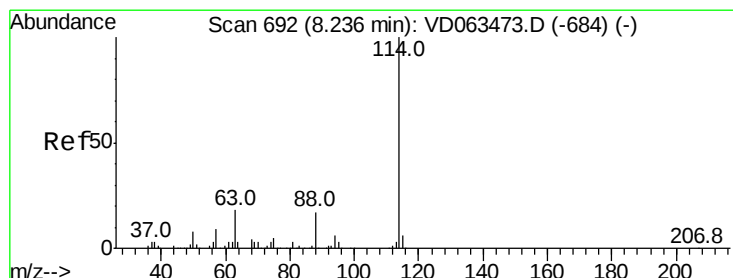
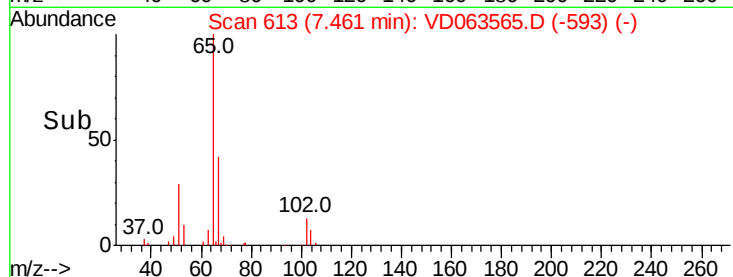
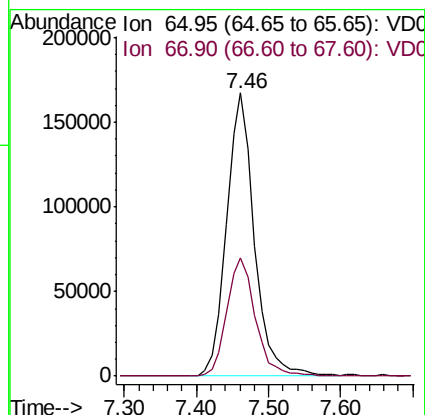
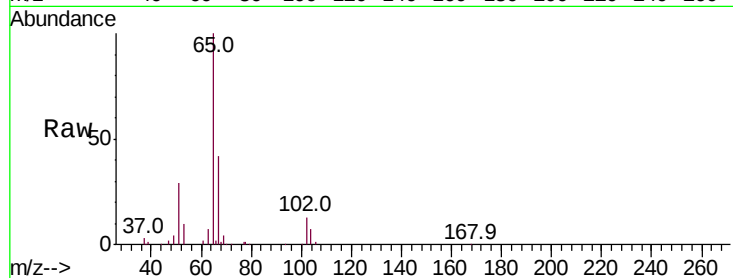




#33
 1,2-Dichloroethane-d4
 Concen: 49.922 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.01 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

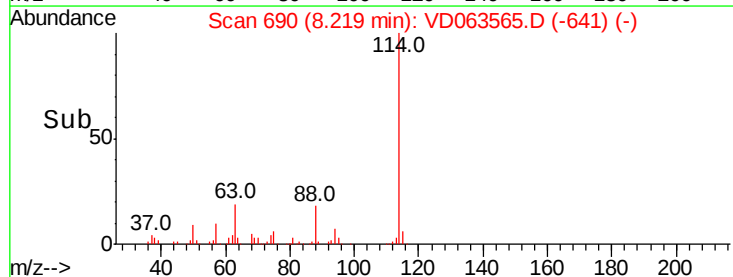
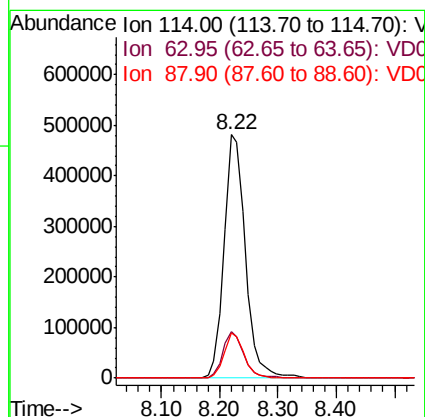
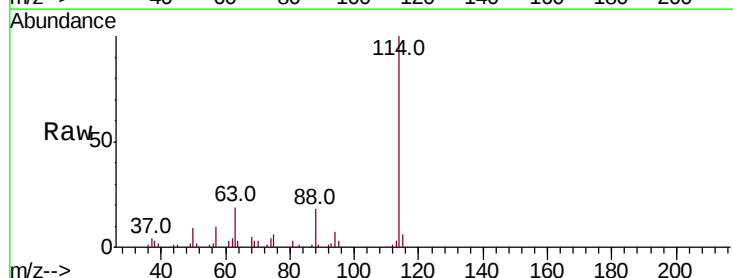
Instrument :
 MSVOA_D
 ClientSampleId :
 SU-04-080919-BRE

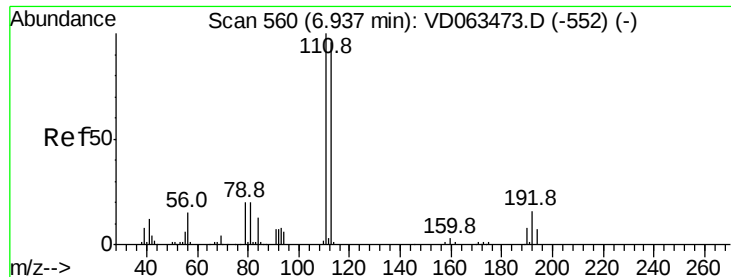
Tot Ion: 65 Resp: 445348
 Ion Ratio Lower Upper
 65 100
 67 41.9 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.02 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

Tgt Ion: 114 Resp: 1224402
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 36.2
 88 18.4 0.0 35.0





#35

Dibromofluoromethane

Concen: 2.662 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD063565.D

Acq: 14 Aug 2019 10:16

Instrument :

MSVOA_D

ClientSampleId :

SU-04-080919-BRE

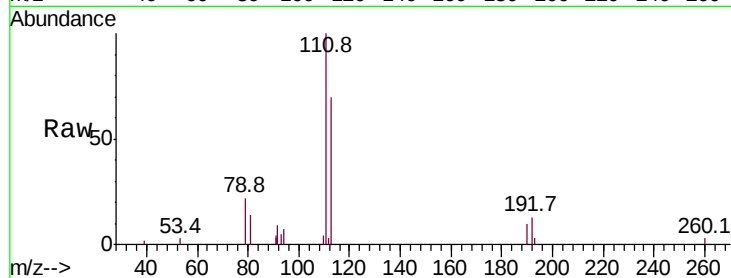
Tot Ion:113 Resp: 27448

Ion Ratio Lower Upper

113 100

111 142.0 83.1 124.7#

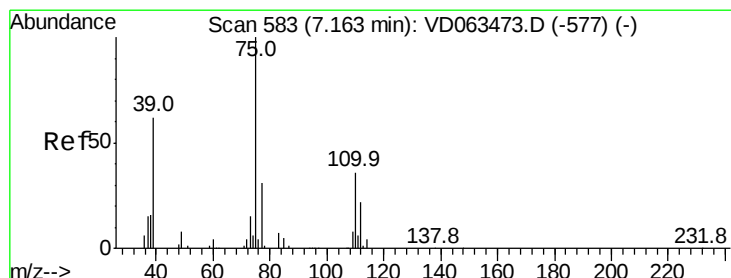
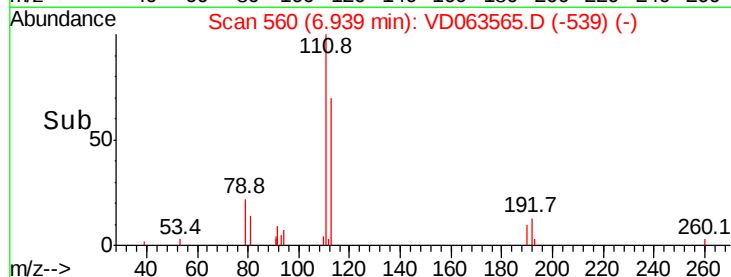
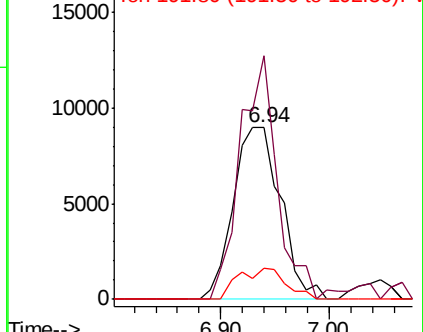
192 17.9 13.1 19.7



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: 5.607 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.12 min

Lab File: VD063565.D

Acq: 14 Aug 2019 10:16

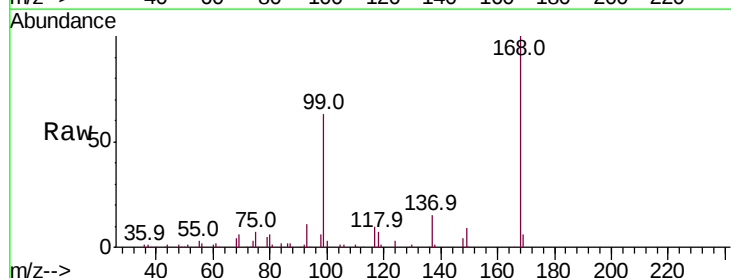
Tgt Ion: 75 Resp: 60685

Ion Ratio Lower Upper

75 100

110 15.1 17.6 52.8#

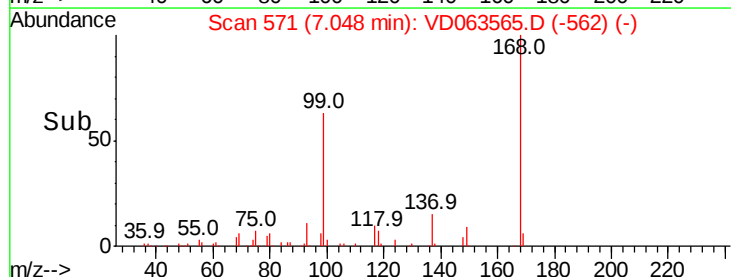
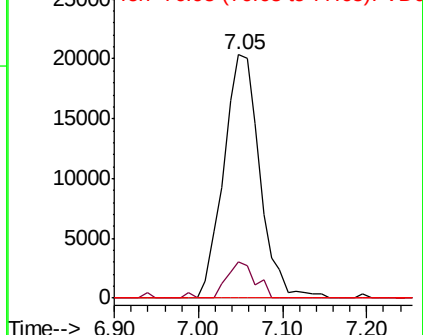
77 0.0 24.3 36.5#

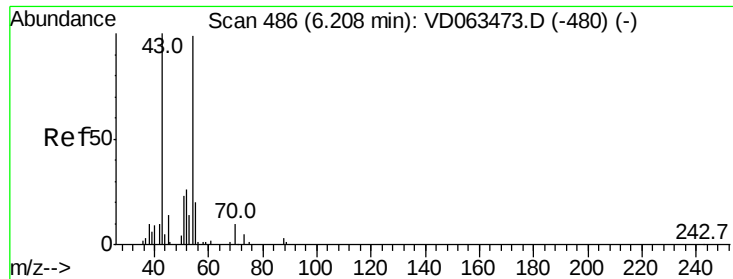


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

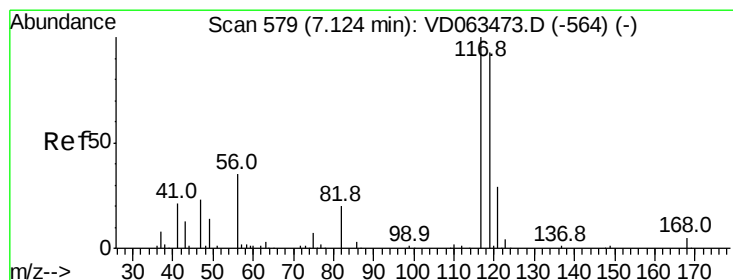
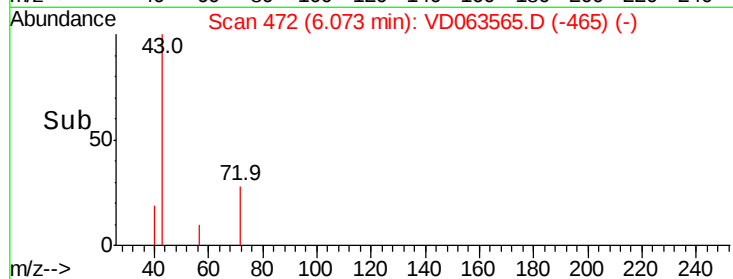
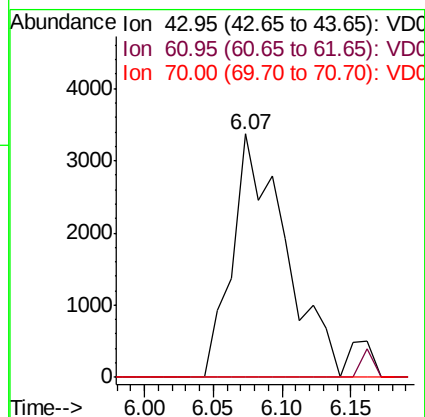
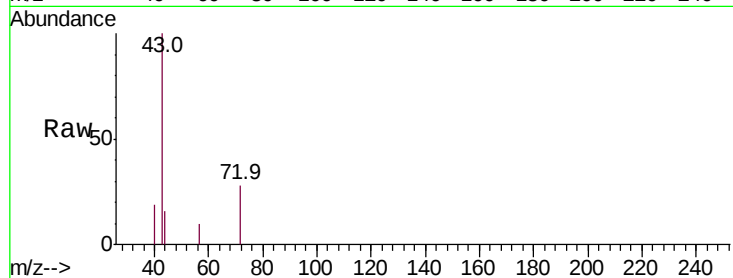




#37
Ethyl Acetate
Concen: 1.995 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.14 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

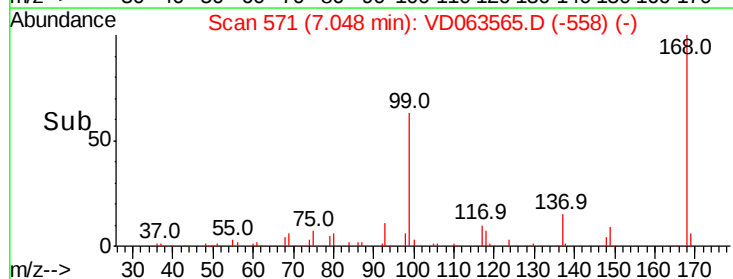
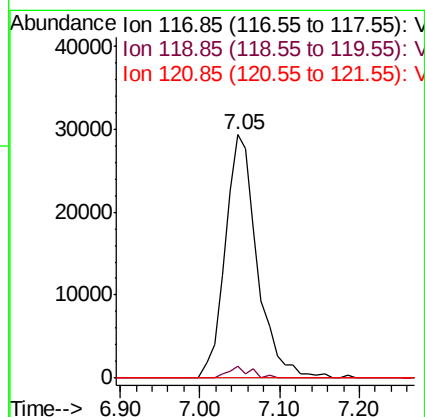
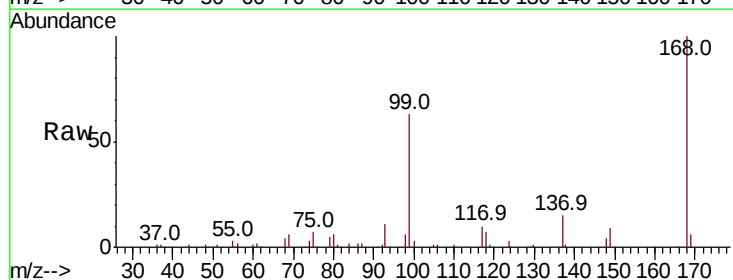
Instrument :
MSVOA_D
ClientSampleId :
SU-04-080919-BRE

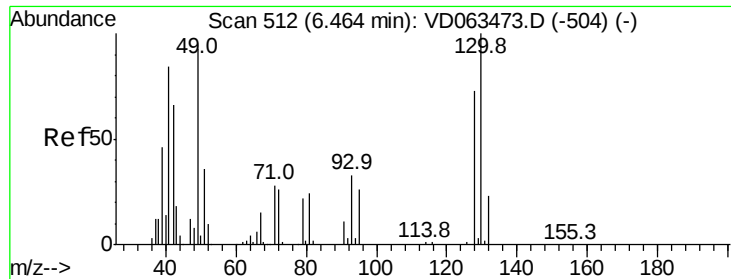
Tot Ion: 43 Resp: 9047
Ion Ratio Lower Upper
43 100
61 0.0 9.0 13.6#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 5.043 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.08 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Tgt Ion: 117 Resp: 82261
Ion Ratio Lower Upper
117 100
119 5.1 74.2 111.2#
121 0.0 23.1 34.7#





#41

Methacrylonitrile

Concen: 1.116 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.01 min

Lab File: VD063565.D

Acq: 14 Aug 2019 10:16

Instrument :

MSVOA_D

ClientSampleId :

SU-04-080919-BRE

Tot Ion: 41 Resp: 6372

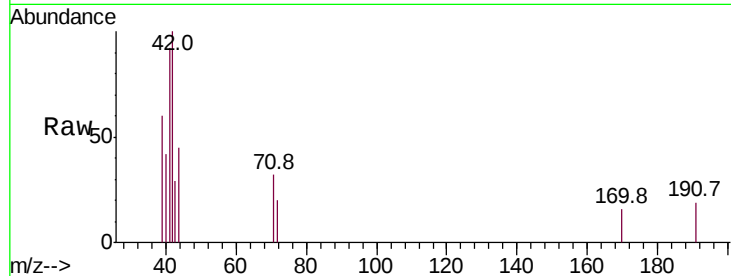
Ion Ratio Lower Upper

41 100

39 66.0 44.6 66.8

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

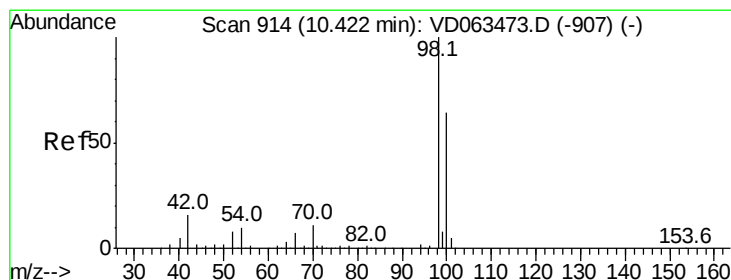
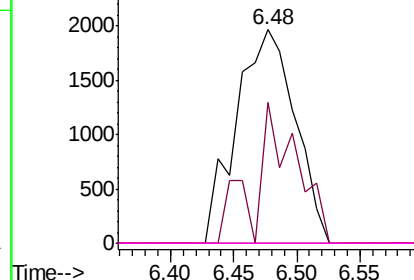
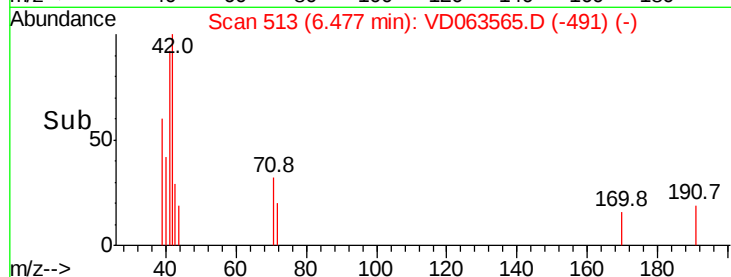


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 37.551 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD063565.D

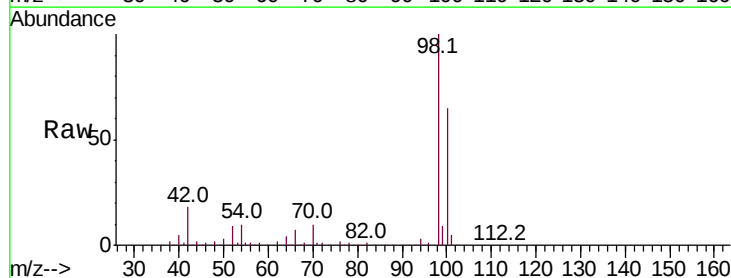
Acq: 14 Aug 2019 10:16

Tgt Ion: 98 Resp: 851328

Ion Ratio Lower Upper

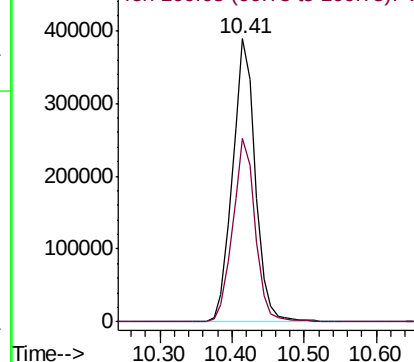
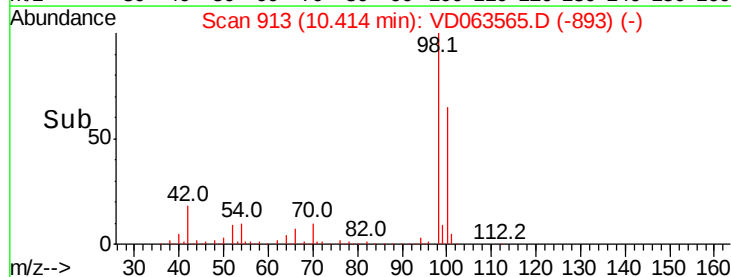
98 100

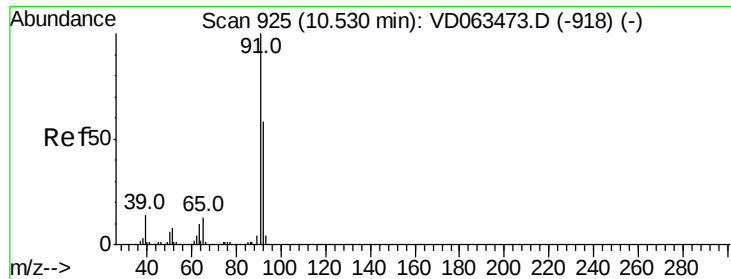
100 64.8 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 3.963 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.02 min

Lab File: VD063565.D

Acq: 14 Aug 2019 10:16

Instrument :

MSVOA_D

ClientSampleId :

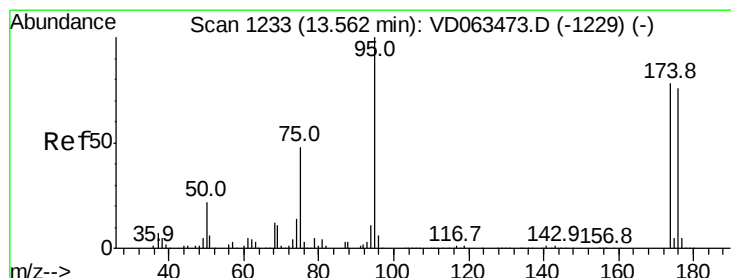
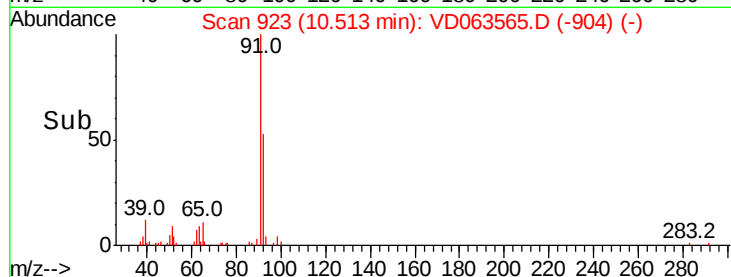
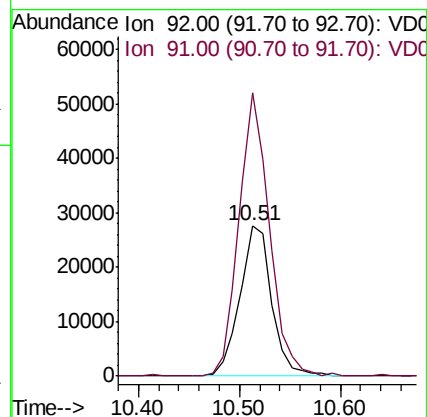
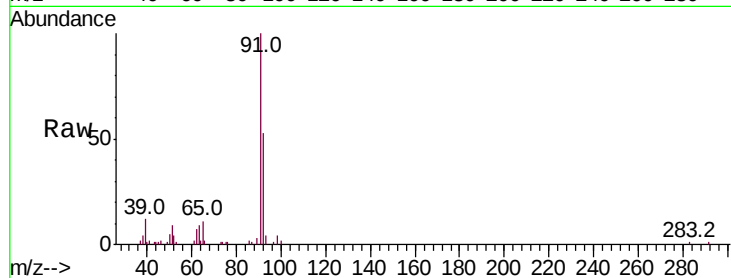
SU-04-080919-BRE

Tot Ion: 92 Resp: 60804

Ion Ratio Lower Upper

92 100

91 188.3 137.9 206.9



#62

4-Bromofluorobenzene

Concen: 29.803 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063565.D

Acq: 14 Aug 2019 10:16

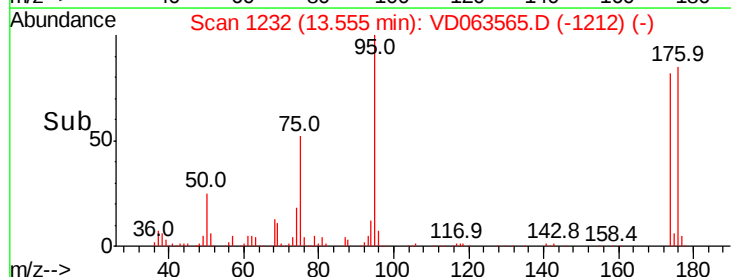
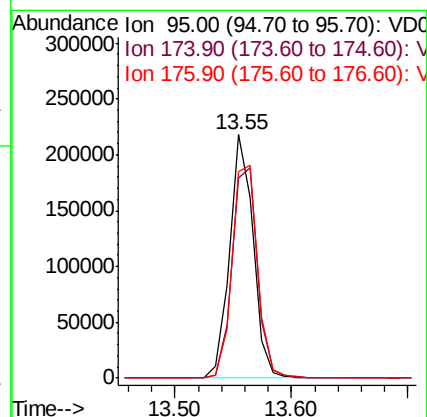
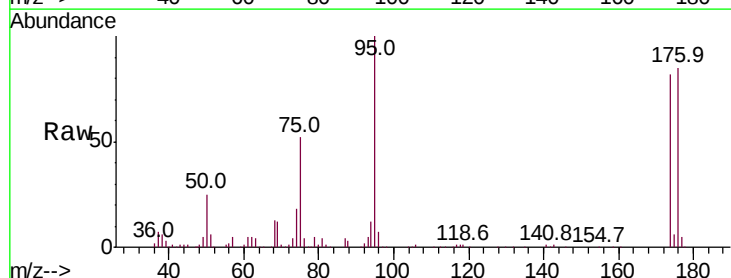
Tgt Ion: 95 Resp: 306240

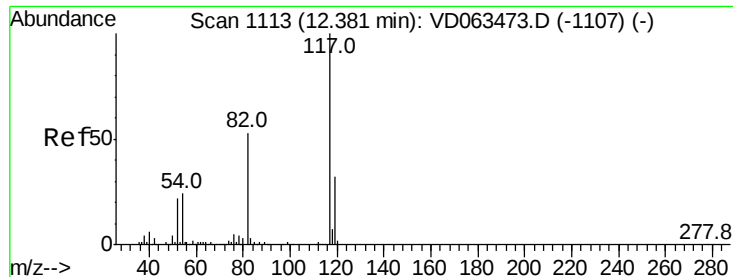
Ion Ratio Lower Upper

95 100

174 82.2 0.0 155.4

176 85.1 0.0 152.4

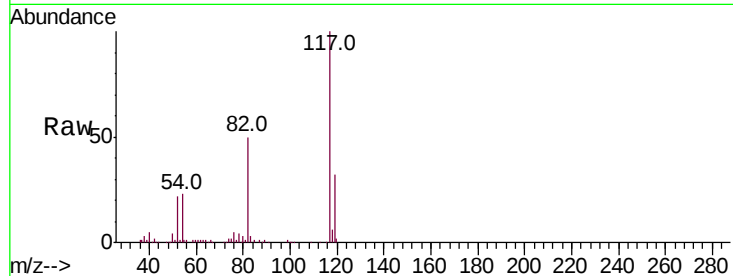




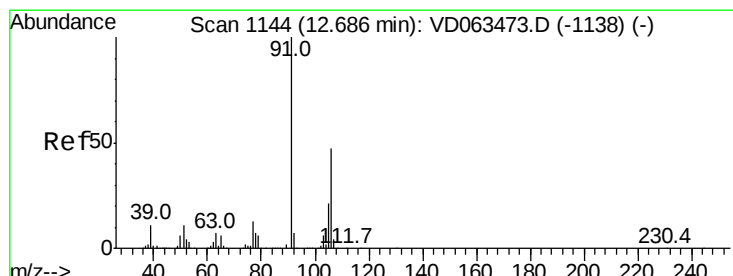
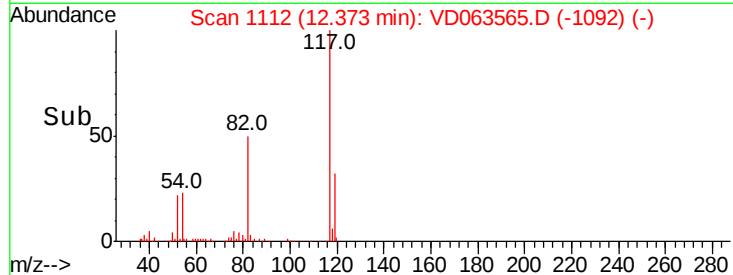
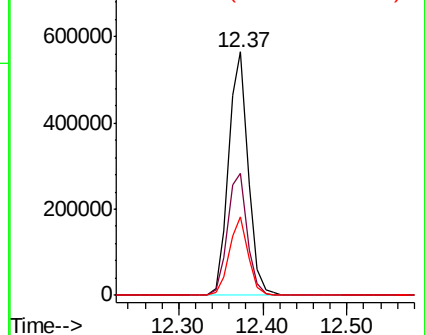
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Instrument :
MSVOA_D
ClientSampleId :
SU-04-080919-BRE

Tot Ion:117 Resp: 912373
Ion Ratio Lower Upper
117 100
82 49.9 42.0 63.0
119 32.3 25.4 38.0

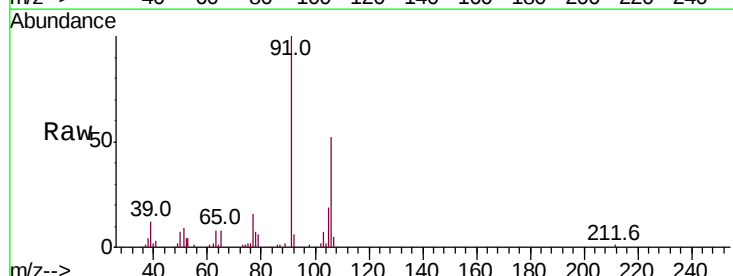


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

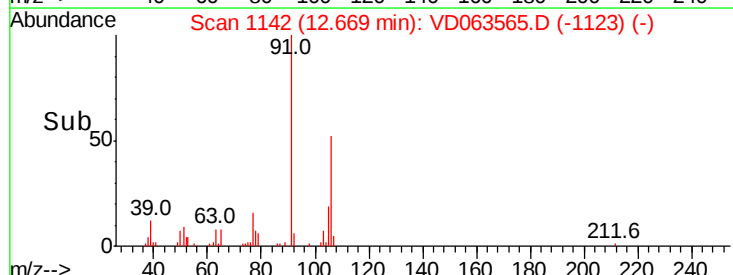
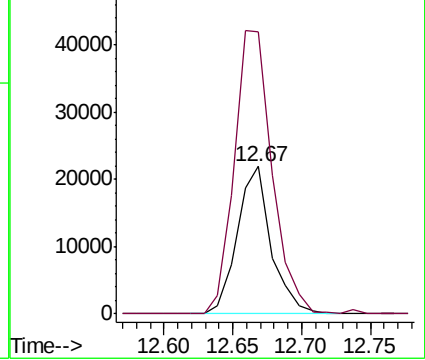


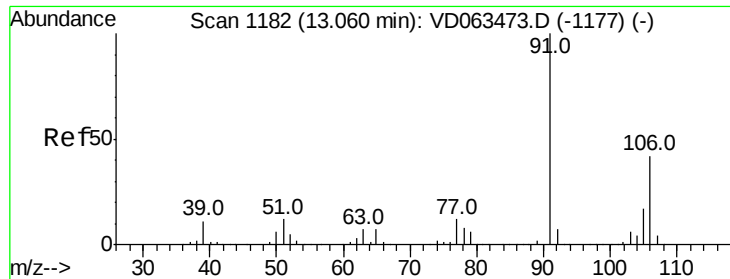
#68
m/p-Xylenes
Concen: 3.590 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Tgt Ion:106 Resp: 37505
Ion Ratio Lower Upper
106 100
91 191.4 171.8 257.8



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

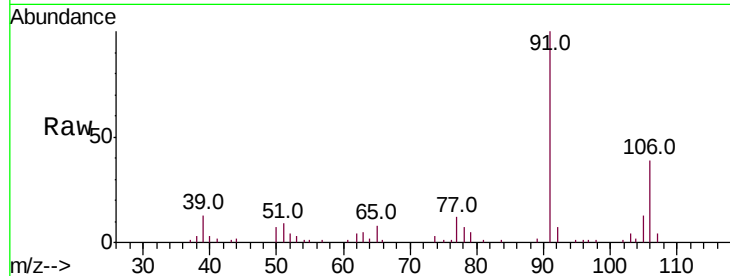




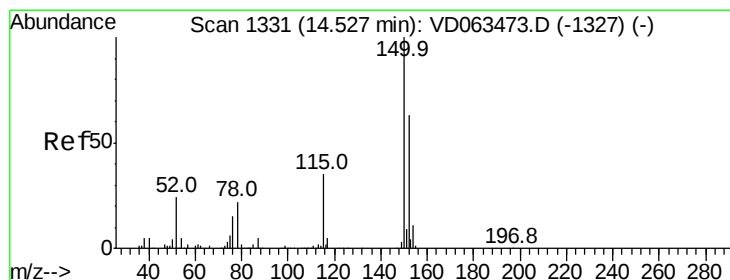
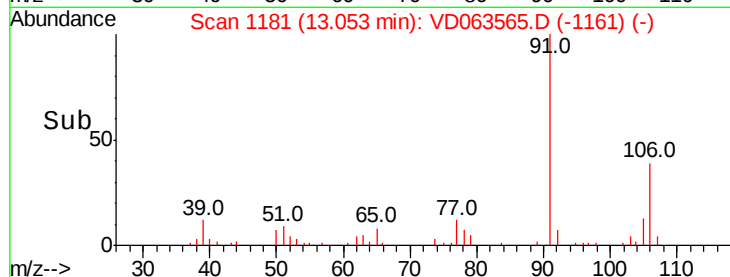
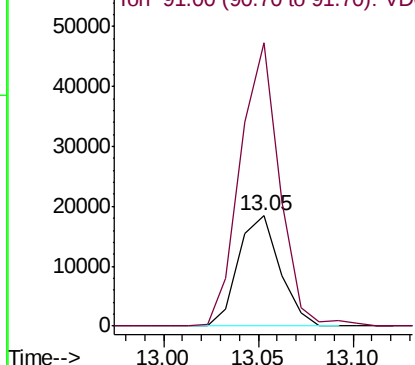
#69
o-Xylene
Concen: 2.771 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Instrument :
MSVOA_D
ClientSampleId :
SU-04-080919-BRE

Tot Ion:106 Resp: 27860
Ion Ratio Lower Upper
106 100
91 257.0 118.1 354.2

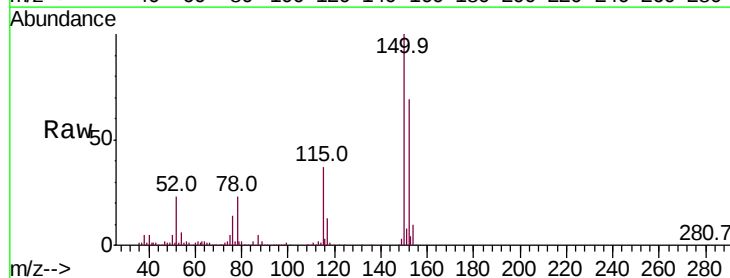


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

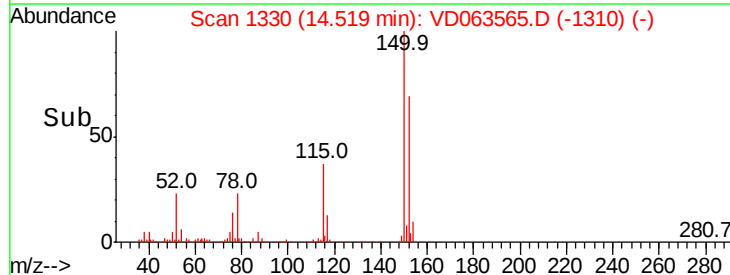
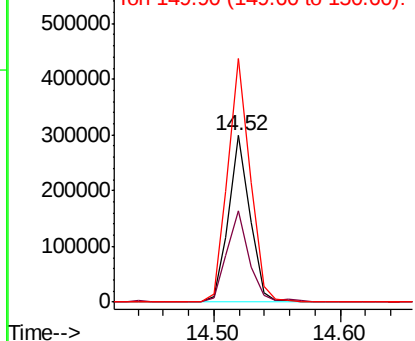


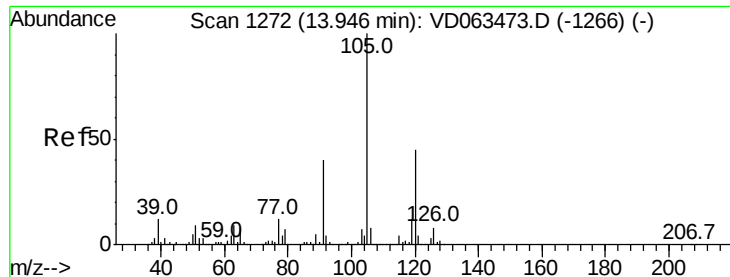
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063565.D
Acq: 14 Aug 2019 10:16

Tgt Ion:152 Resp: 349650
Ion Ratio Lower Upper
152 100
115 54.7 30.9 92.7
150 146.0 0.0 318.6



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

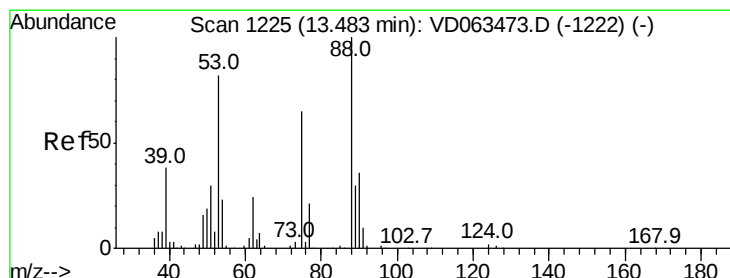
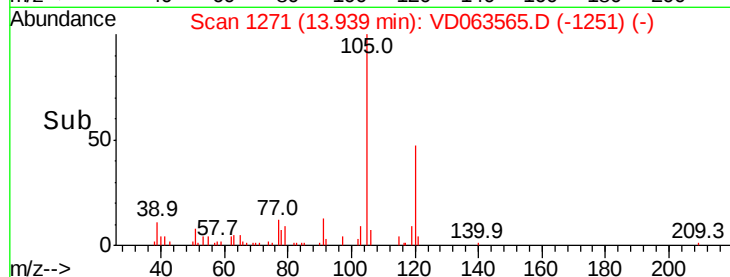
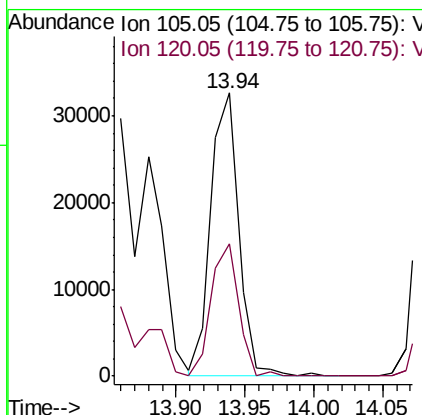
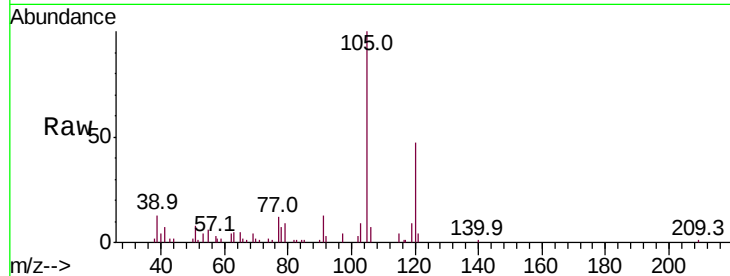




#80
 1,3,5-Trimethylbenzene
 Concen: 2.365 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. -0.01 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

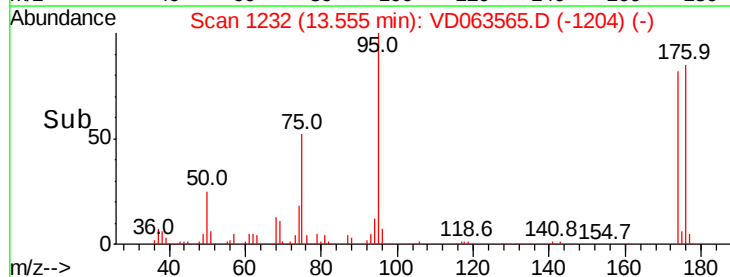
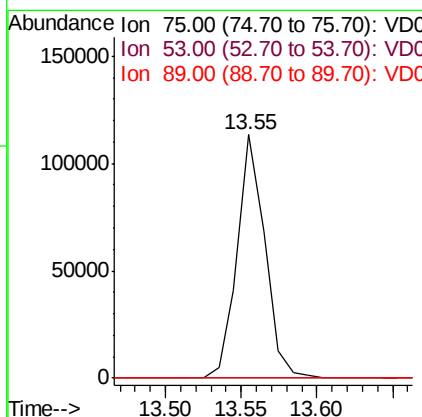
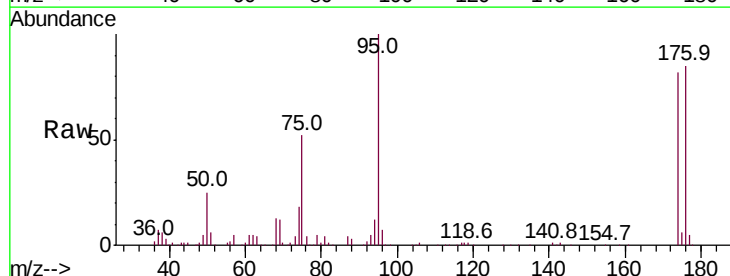
Instrument :
 MSVOA_D
 ClientSampleId :
 SU-04-080919-BRE

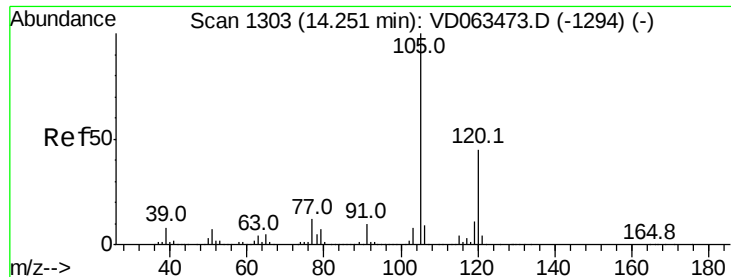
Tot Ion:105 Resp: 45952
 Ion Ratio Lower Upper
 105 100
 120 46.8 22.8 68.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 133.275 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

Tgt Ion: 75 Resp: 143742
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.0 151.4#
 89 0.0 37.0 55.6#

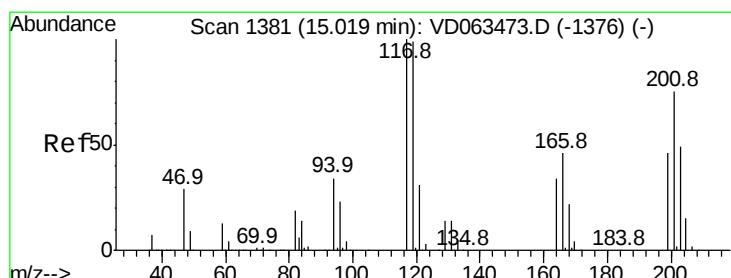
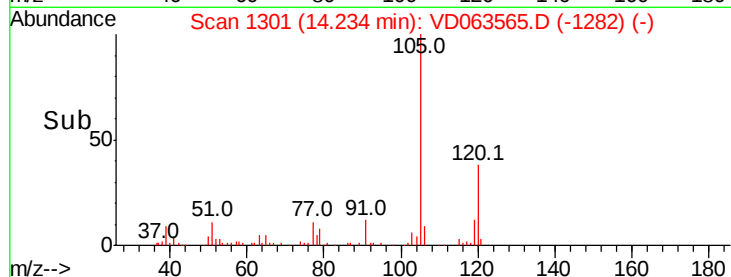
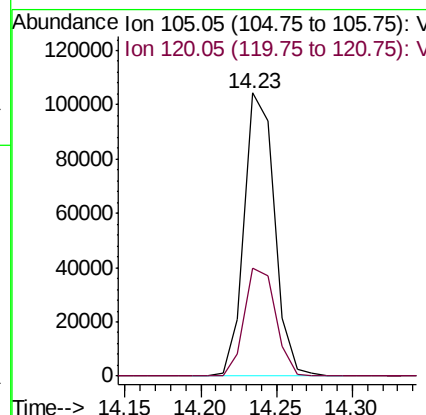
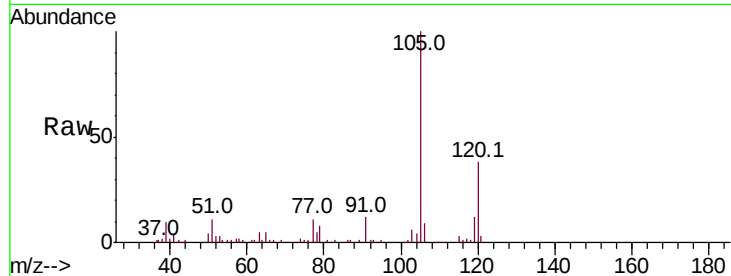




#84
 1,2,4-Trimethylbenzene
 Concen: 8.056 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.02 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

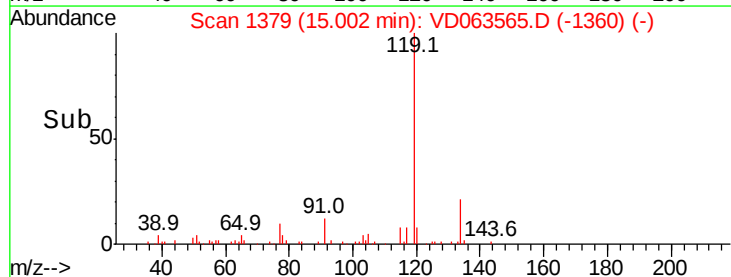
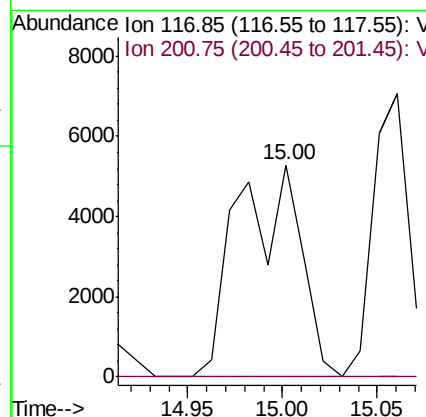
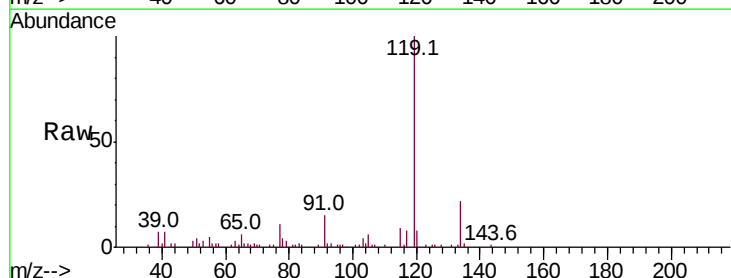
Instrument :
 MSVOA_D
 ClientSampleId :
 SU-04-080919-BRE

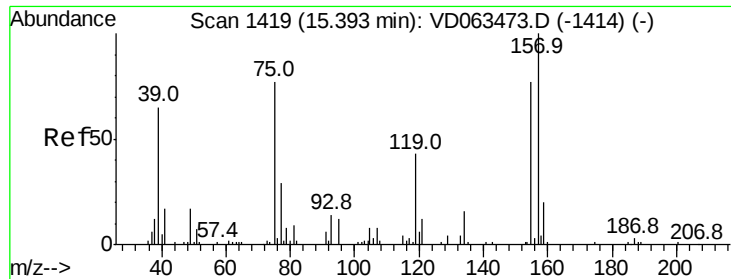
Tot Ion:105 Resp: 144849
 Ion Ratio Lower Upper
 105 100
 120 38.1 22.7 68.1



#90
 Hexachloroethane
 Concen: 2.345 ug/l
 RT: 15.00 min Scan# 1379
 Delta R.T. -0.02 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

Tgt Ion:117 Resp: 12244
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.5 112.5#

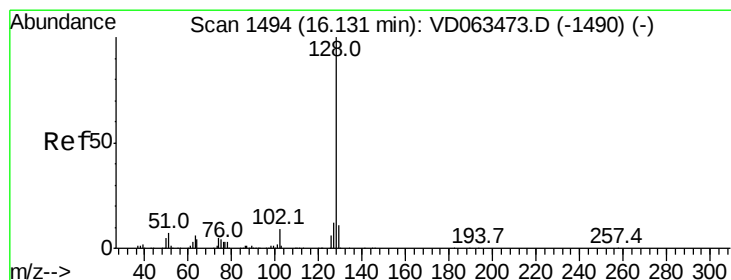
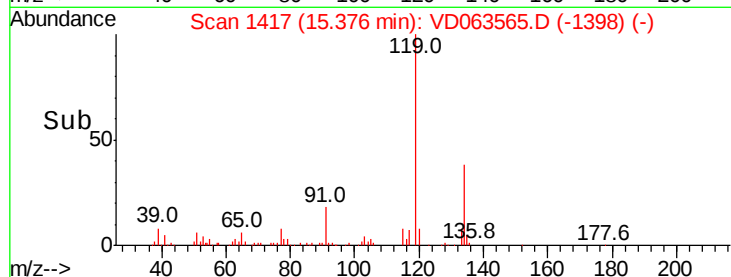
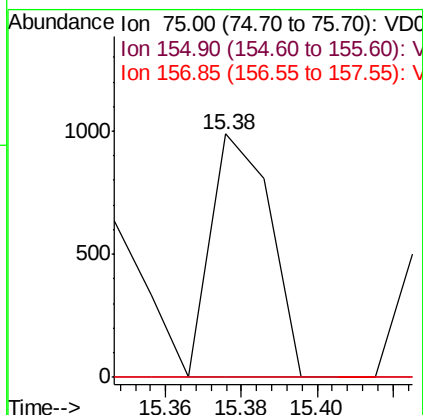
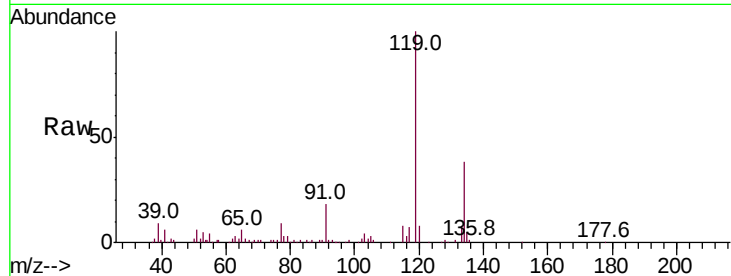




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.525 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-04-080919-BRE

Tot Ion: 75 Resp: 1060
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.1 150.3#
 157 0.0 65.0 195.1#



#95
 Naphthalene
 Concen: 8.992 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VD063565.D
 Acq: 14 Aug 2019 10:16

Tgt Ion: 128 Resp: 93537
 Ion Ratio Lower Upper
 128 100
 127 12.9 9.4 14.0
 129 9.9 8.5 12.7

