

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053119\
 Data File : VD062564.D
 Acq On : 31 May 2019 15:26
 Operator : VA/AP
 Sample : K3125-21
 Misc : 5.04g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 13903

Quant Time: May 31 23:26:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	423597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	636644	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	344218	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	79610	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	278515	56.08	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.16%	
35) Dibromofluoromethane	6.94	113	275078	47.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.82%	
50) Toluene-d8	10.42	98	348677	27.43	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	54.86%	
62) 4-Bromofluorobenzene	13.56	95	104719	18.27	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	36.54%	

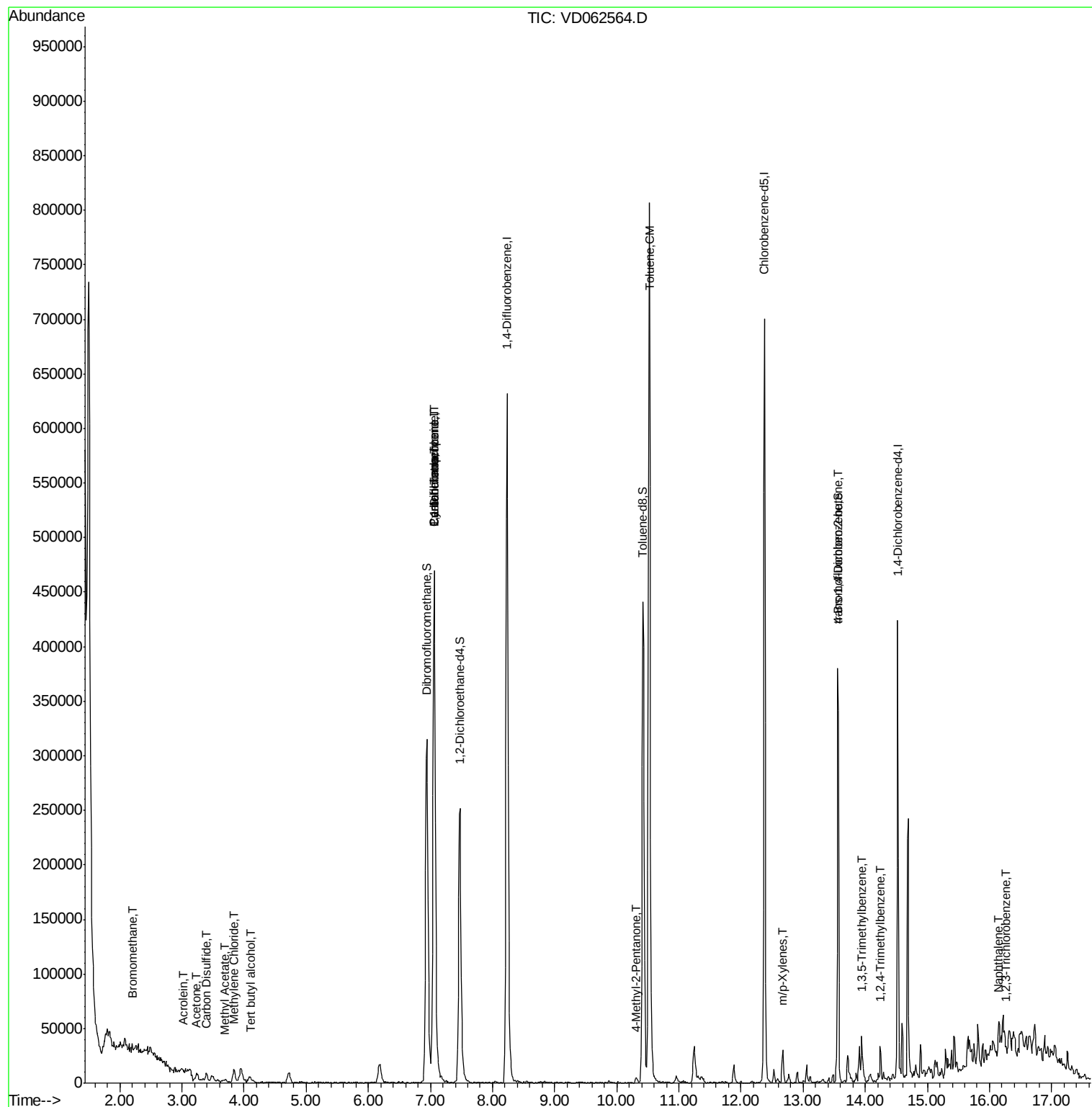
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	982	Below Cal	#	43
5) Bromomethane	2.20	94	1904	1.562	ug/l #	12
11) Tert butyl alcohol	4.11	59	12658	59.751	ug/l #	80
13) Acrolein	3.03	56	235	2.546	ug/l #	10
16) Acetone	3.23	43	16592	17.002	ug/l #	77
17) Carbon Disulfide	3.39	76	12819	1.190	ug/l	96
18) Methyl Acetate	3.67	43	3748	2.353	ug/l #	63
20) Methylene Chloride	3.83	84	7711	2.135	ug/l	85
31) Cyclohexane	7.07	56	12109	2.625	ug/l #	10
36) 1,1-Dichloropropene	7.06	75	35737	5.639	ug/l #	48
38) Carbon Tetrachloride	7.06	117	47636	5.049	ug/l #	17
51) 4-Methyl-2-Pentanone	10.31	43	4815	2.075	ug/l #	74
52) Toluene	10.53	92	420951	49.620	ug/l	99
68) m/p-Xylenes	12.67	106	8687	2.044	ug/l	88
80) 1,3,5-Trimethylbenzene	13.93	105	9483	2.115	ug/l	82
81) trans-1,4-Dichloro-2-buten	13.56	75	52181	190.669	ug/l #	5
84) 1,2,4-Trimethylbenzene	14.24	105	14699	3.216	ug/l	98
95) Naphthalene	16.13	128	4344	1.901	ug/l #	81
96) 1,2,3-Trichlorobenzene	16.28	180	1438	1.147	ug/l #	35

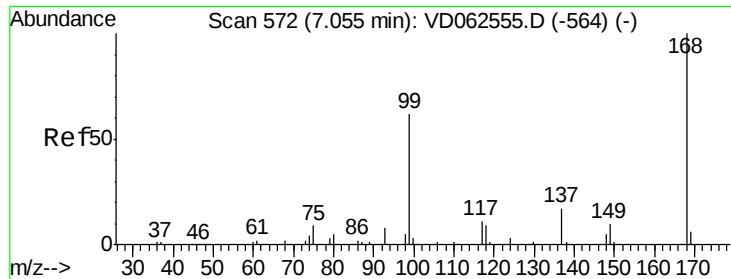
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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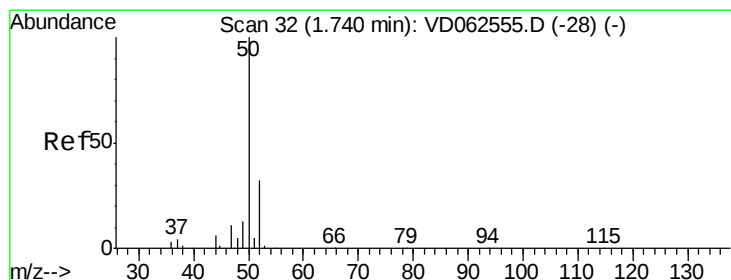
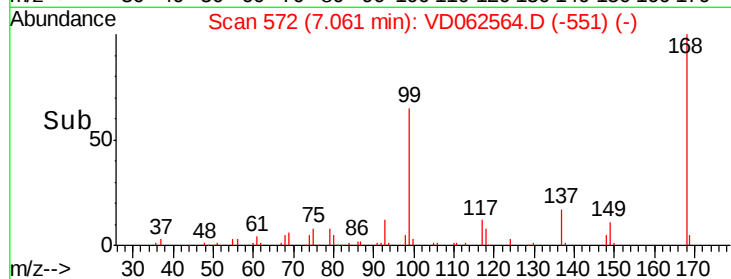
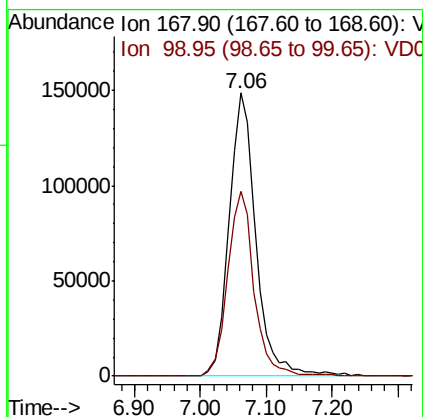
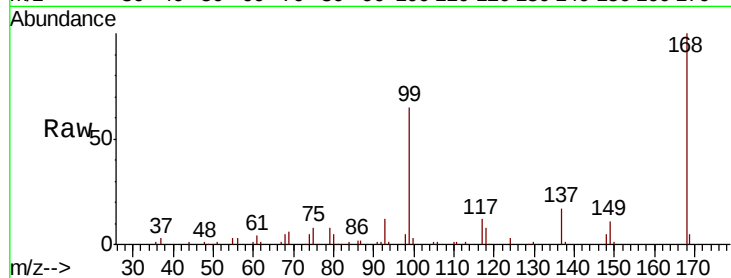




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.01 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

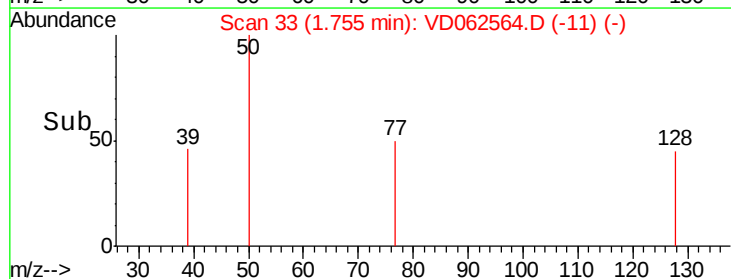
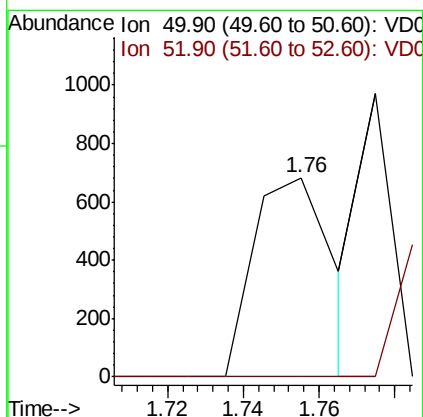
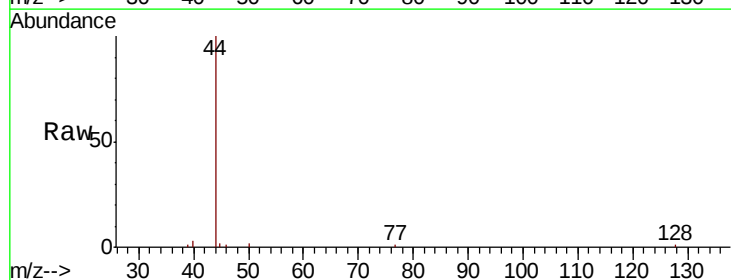
Instrument :
MSVOA_D
ClientSampleId :
13903

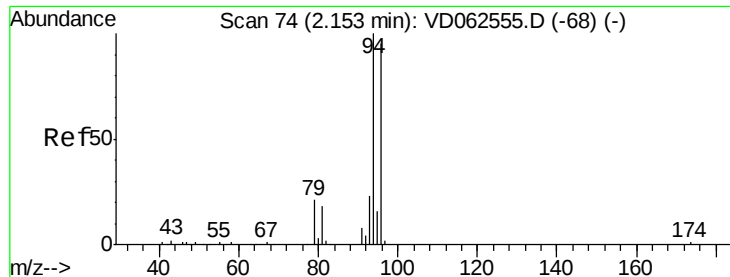
Tot Ion:168 Resp: 423597
Ion Ratio Lower Upper
168 100
99 65.5 50.8 76.2



#3
Chloromethane
Concen: Below Cal
RT: 1.76 min Scan# 33
Delta R.T. 0.02 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Tgt Ion: 50 Resp: 982
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#





#5

Bromomethane

Concen: 1.562 ug/l

RT: 2.20 min Scan# 78

Delta R.T. 0.05 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

Instrument :

MSVOA_D

ClientSampleId :

13903

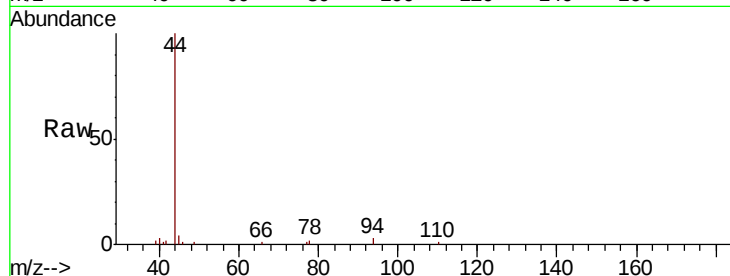
Tot Ion: 94 Resp: 1904

Ion Ratio Lower Upper

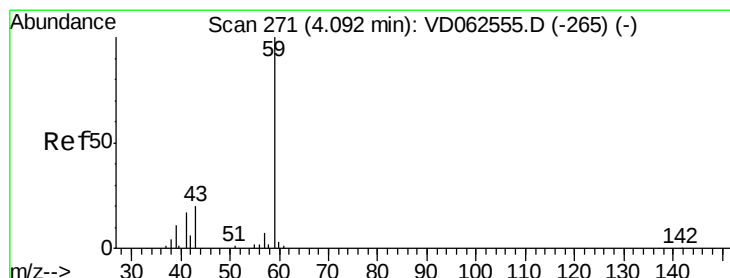
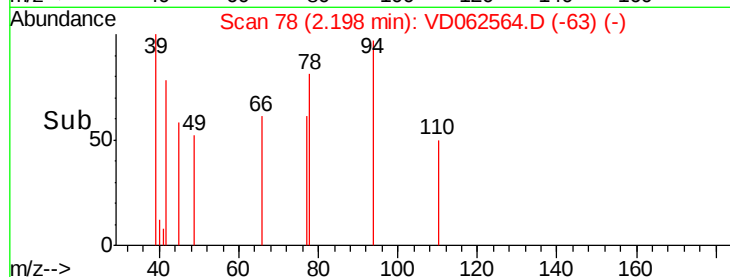
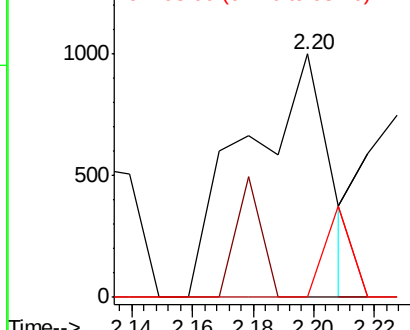
94 100

96 0.0 76.2 114.4#

93 0.0 18.4 27.6#



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



#11

Tert butyl alcohol

Concen: 59.751 ug/l

RT: 4.11 min Scan# 272

Delta R.T. 0.02 min

Lab File: VD062564.D

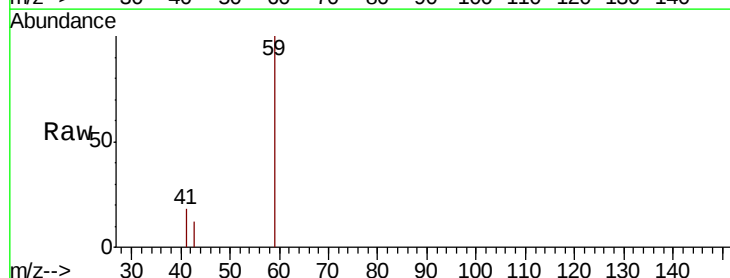
Acq: 31 May 2019 15:26

Tgt Ion: 59 Resp: 12658

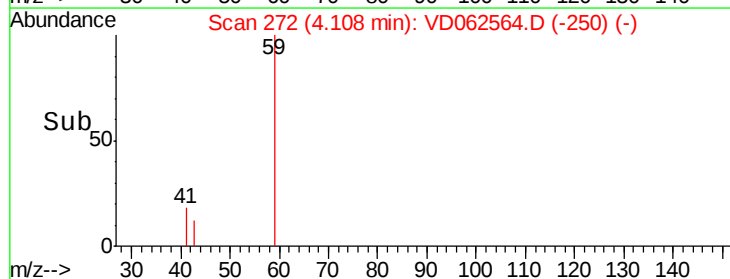
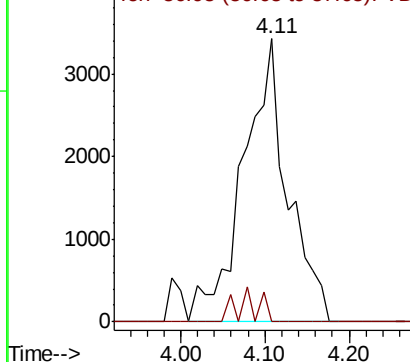
Ion Ratio Lower Upper

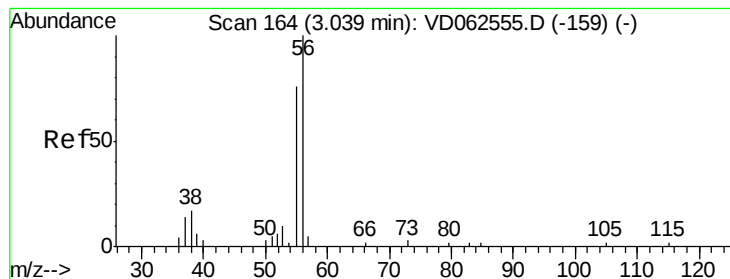
59 100

57 0.0 5.4 8.0#



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





#13

Acrolein

Concen: 2.546 ug/l

RT: 3.03 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

Instrument :

MSVOA_D

ClientSampleId :

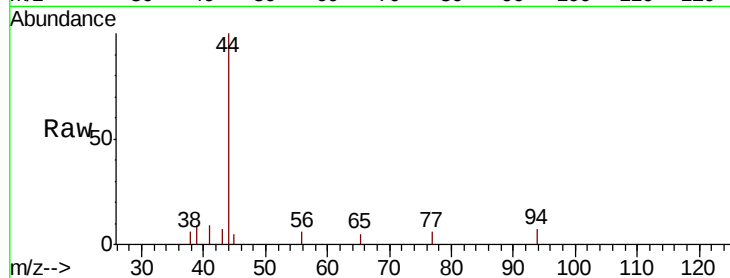
13903

Tot Ion: 56 Resp: 235

Ion Ratio Lower Upper

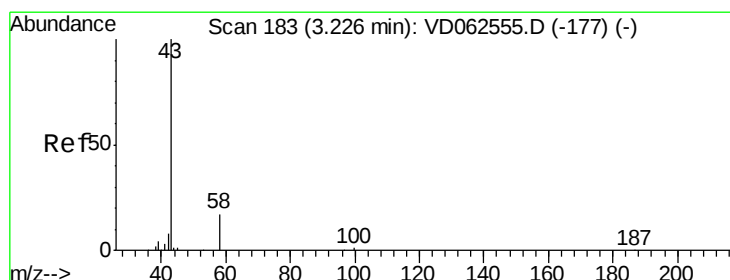
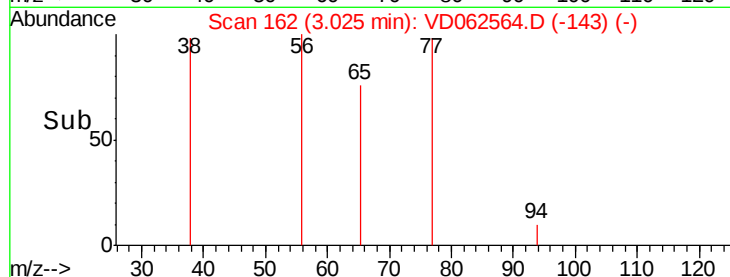
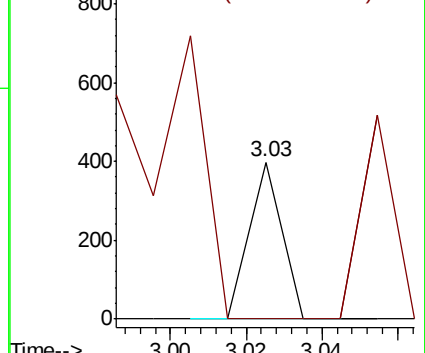
56 100

55 0.0 62.6 93.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 17.002 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062564.D

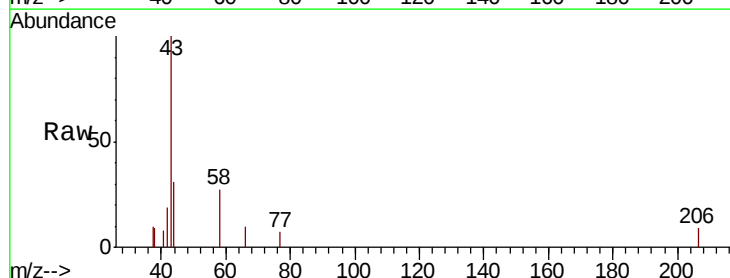
Acq: 31 May 2019 15:26

Tgt Ion: 43 Resp: 16592

Ion Ratio Lower Upper

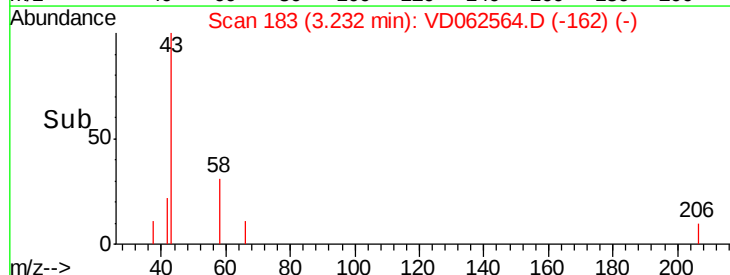
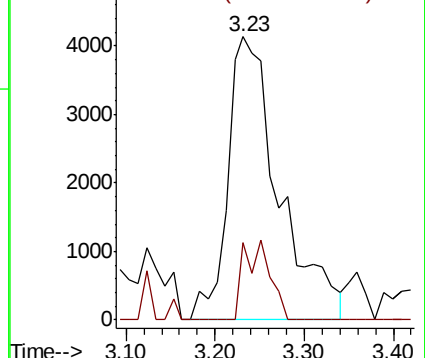
43 100

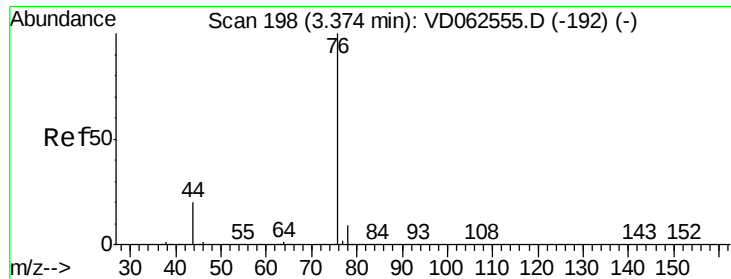
58 27.3 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

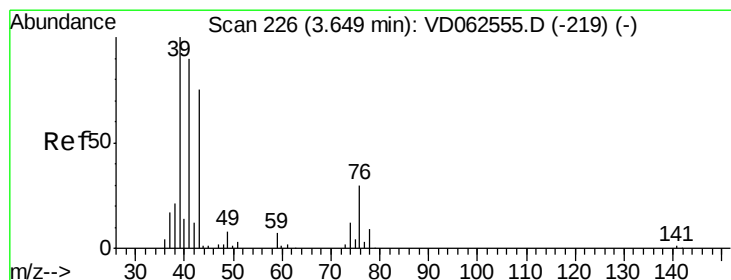
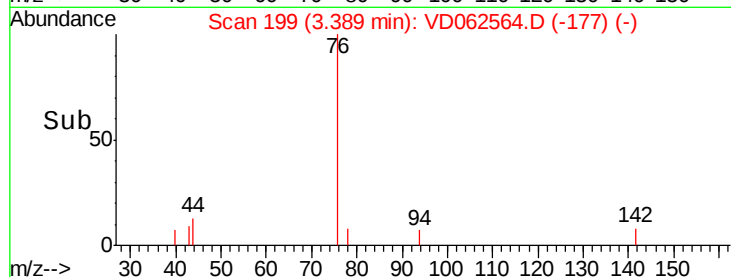
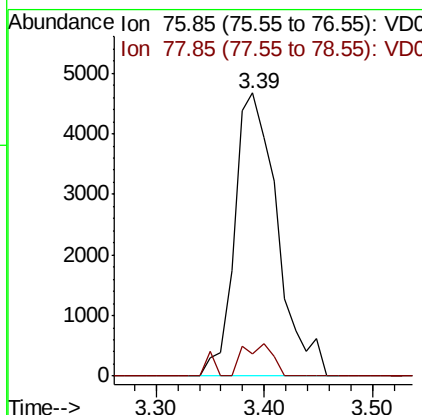
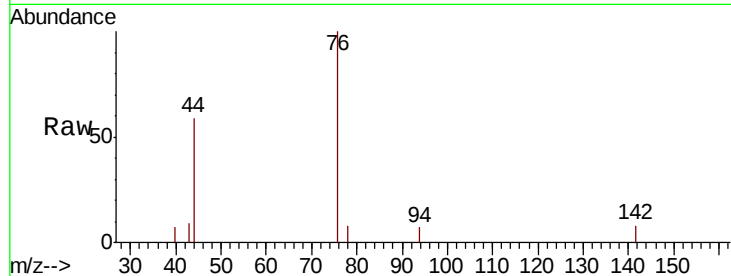




#17
Carbon Disulfide
Concen: 1.190 ug/l
RT: 3.39 min Scan# 199
Delta R.T. 0.02 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

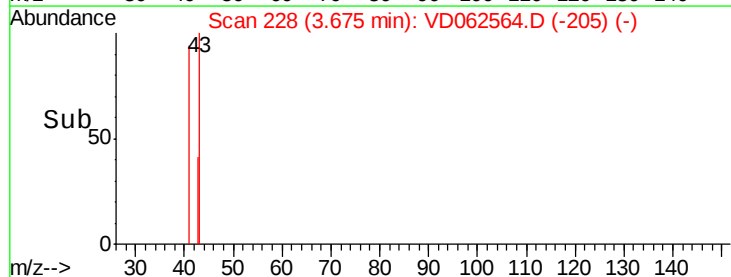
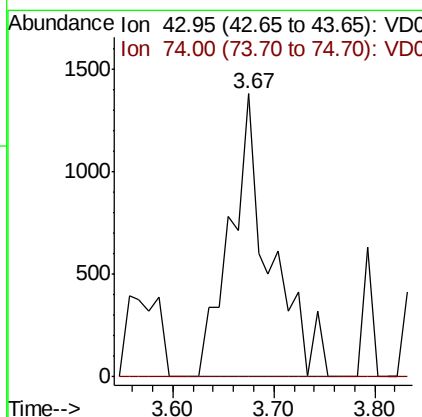
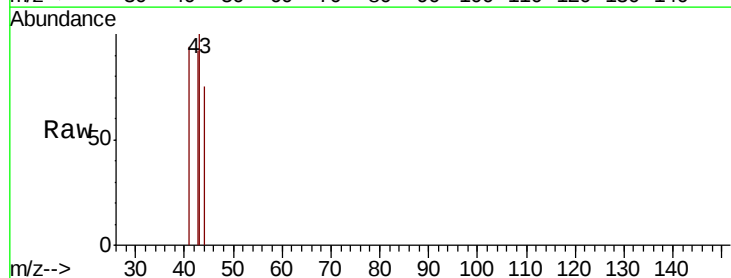
Instrument :
MSVOA_D
ClientSampleId :
13903

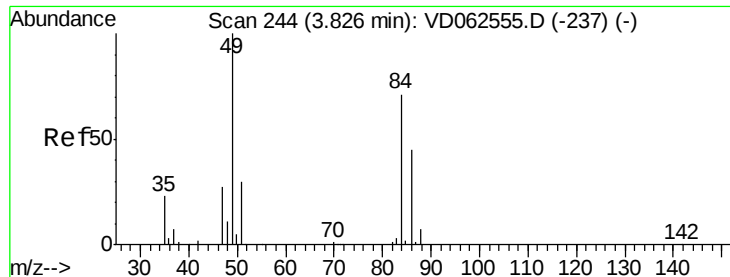
Tot Ion: 76 Resp: 12819
Ion Ratio Lower Upper
76 100
78 7.8 7.4 11.2



#18
Methyl Acetate
Concen: 2.353 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.03 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Tgt Ion: 43 Resp: 3748
Ion Ratio Lower Upper
43 100
74 0.0 12.5 18.7#

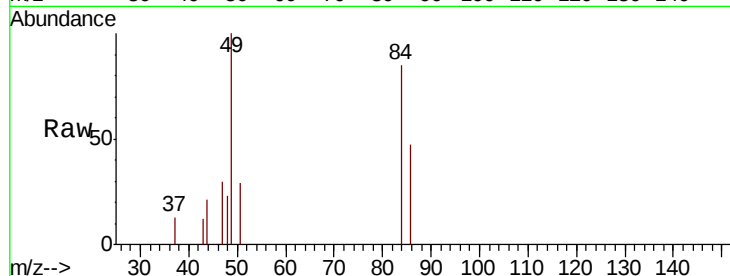




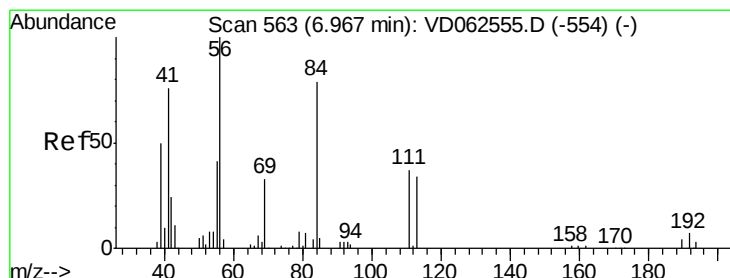
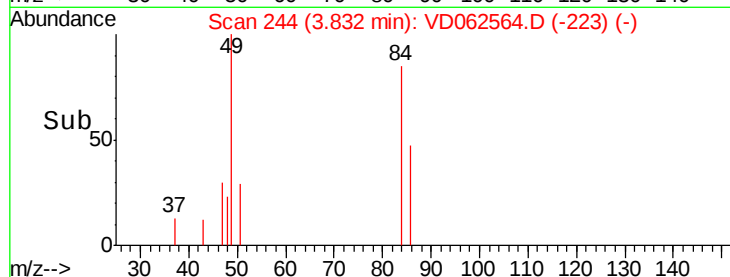
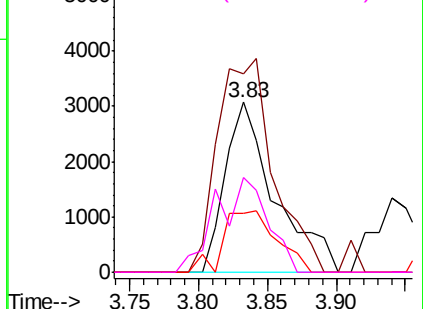
#20
Methvlene Chloride
Concen: 2.135 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Instrument :
MSVOA_D
ClientSampleId :
13903

Tot Ion:	84	Resp:	7711
Ion	Ratio	Lower	Upper
84	100		
49	117.1	112.3	168.5
51	34.5	33.6	50.4
86	55.6	50.4	75.6

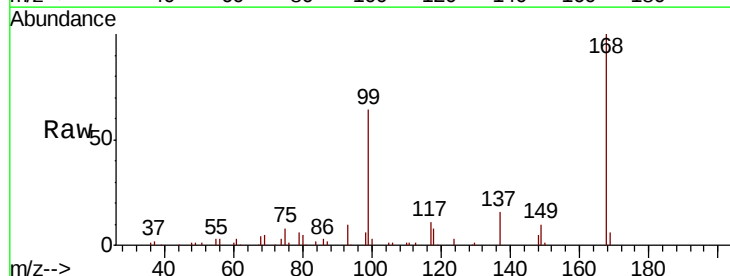


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

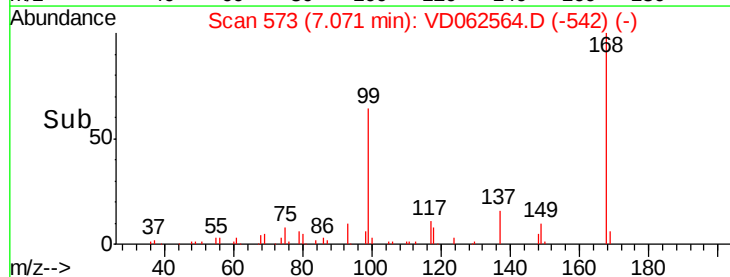
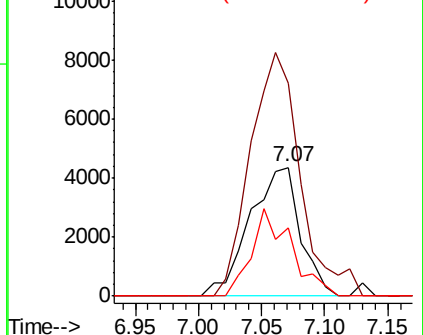


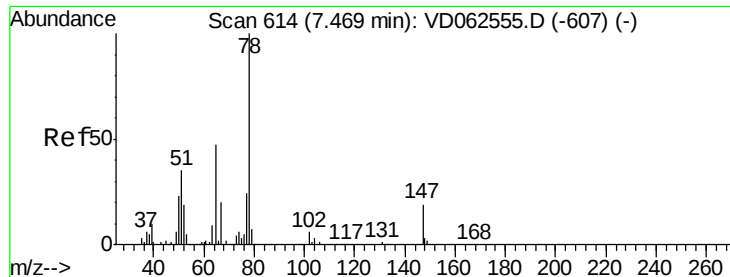
#31
Cyclohexane
Concen: 2.625 ug/l
RT: 7.07 min Scan# 573
Delta R.T. 0.10 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Tgt Ion:	56	Resp:	12109
Ion	Ratio	Lower	Upper
56	100		
69	165.4	26.2	39.2#
84	53.1	65.2	97.8#



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: 56.075 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

Instrument :

MSVOA_D

ClientSampleId :

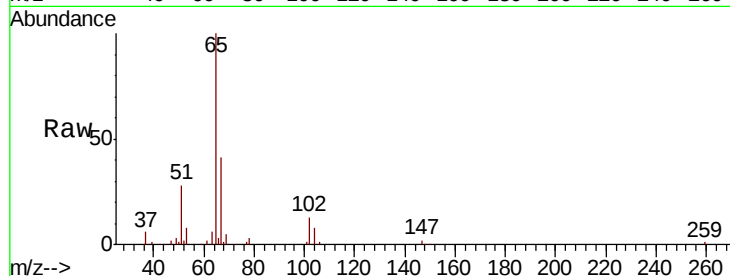
13903

Tot Ion: 65 Resp: 278515

Ion Ratio Lower Upper

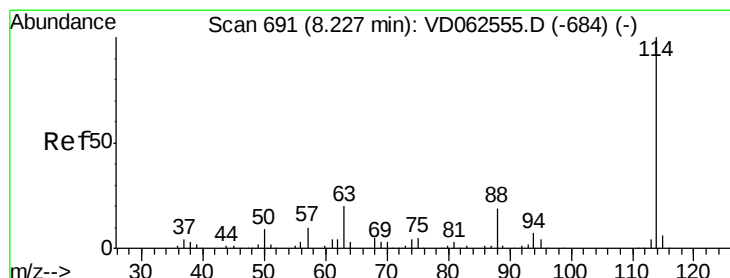
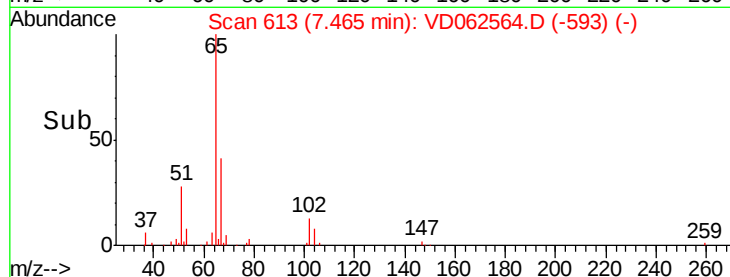
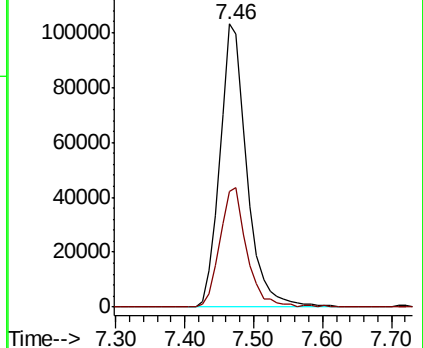
65 100

67 41.0 0.0 83.6



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

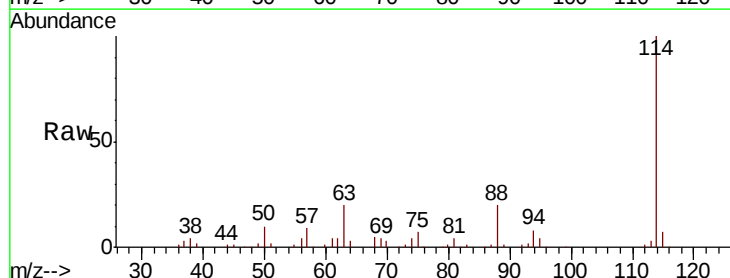
Tgt Ion: 114 Resp: 636644

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.6

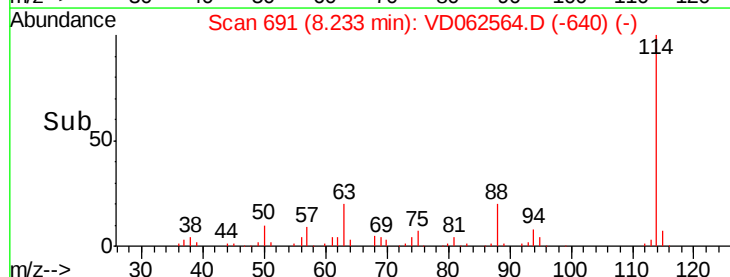
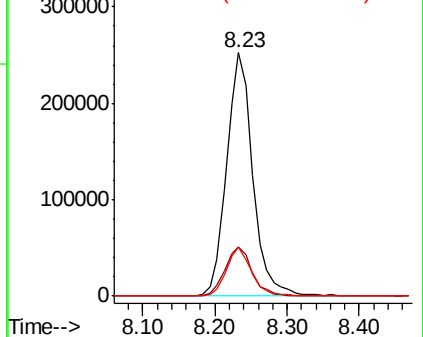
88 19.9 0.0 37.6

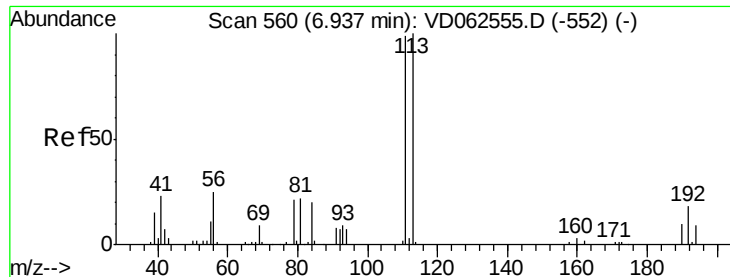


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 47.415 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

Instrument :

MSVOA_D

ClientSampleId :

13903

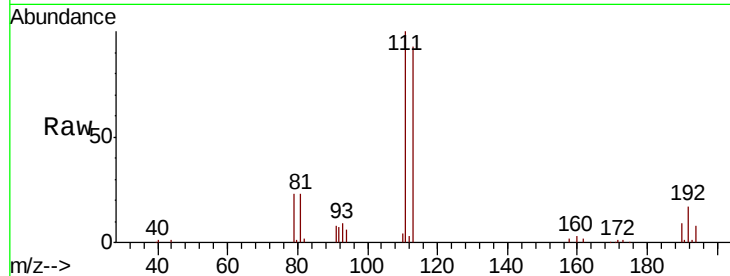
Tot Ion:113 Resp: 275078

Ion Ratio Lower Upper

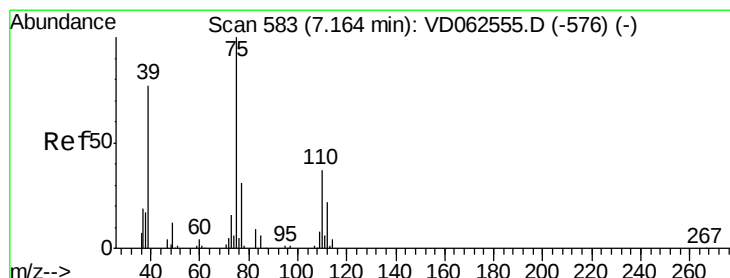
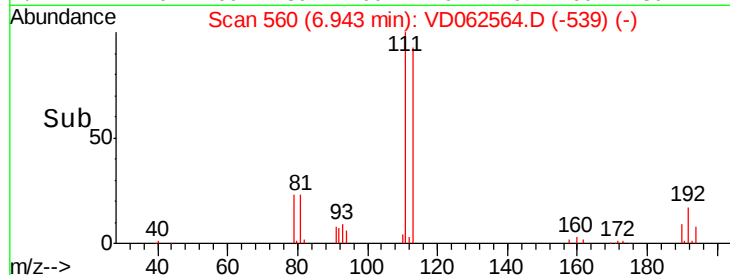
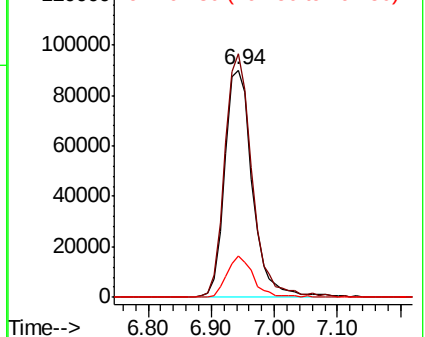
113 100

111 107.0 78.8 118.2

192 18.3 14.6 22.0



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: 5.639 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.10 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

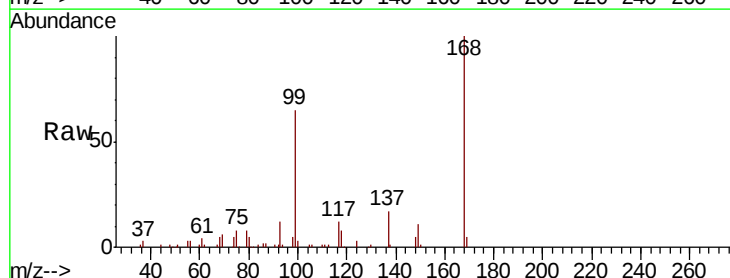
Tgt Ion: 75 Resp: 35737

Ion Ratio Lower Upper

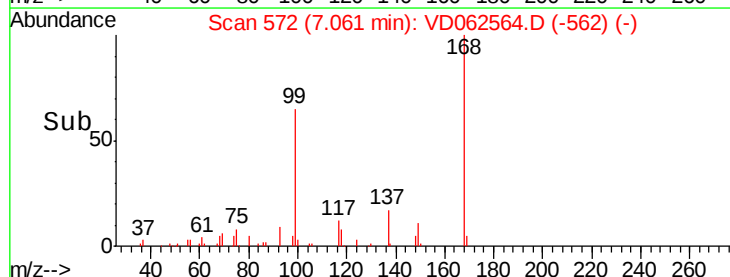
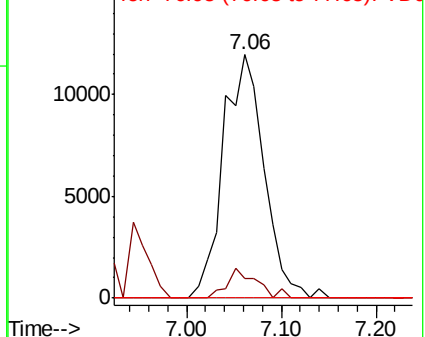
75 100

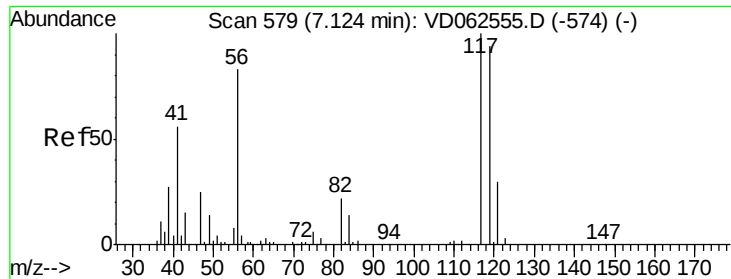
110 8.0 18.3 54.8#

77 0.0 24.4 36.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.049 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

Instrument :

MSVOA_D

ClientSampled :

13903

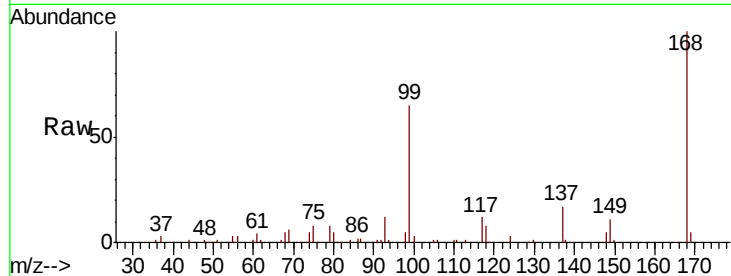
Tot Ion:117 Resp: 47636

Ion Ratio Lower Upper

117 100

119 3.2 71.4 107.2#

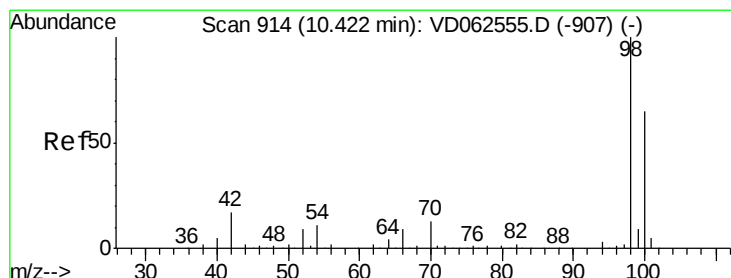
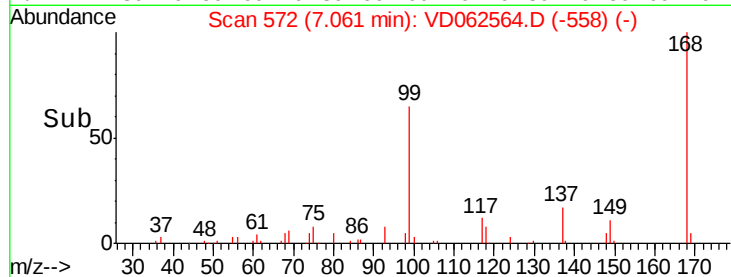
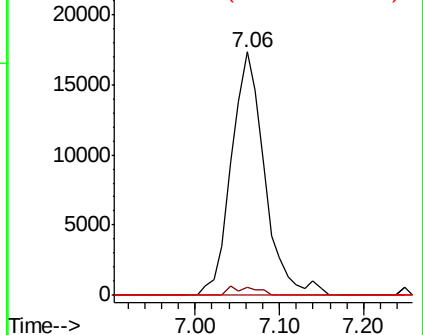
121 0.0 22.5 33.7#



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



#50

Toluene-d8

Concen: 27.431 ug/l

RT: 10.42 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062564.D

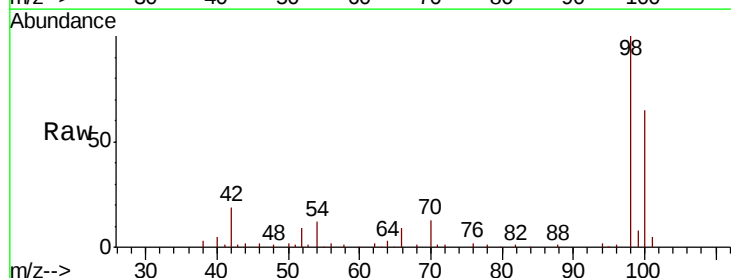
Acq: 31 May 2019 15:26

Tgt Ion: 98 Resp: 348677

Ion Ratio Lower Upper

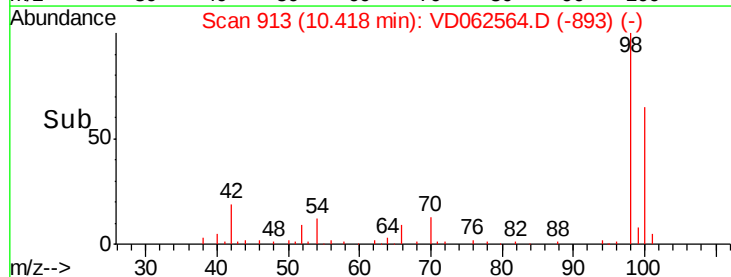
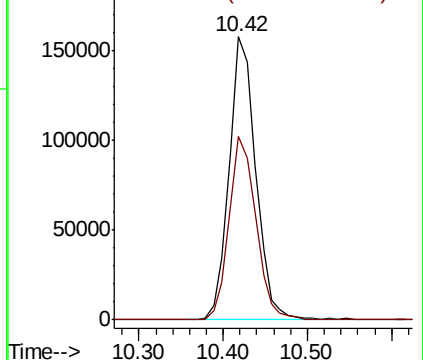
98 100

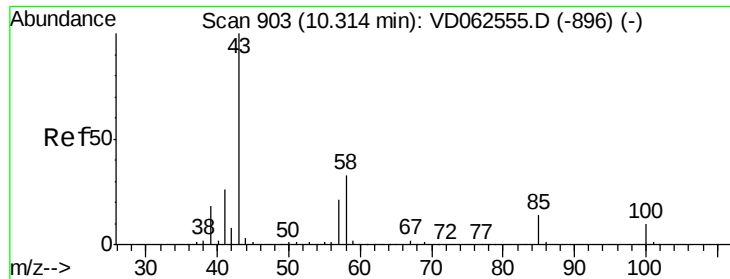
100 64.9 52.3 78.5



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 2.075 ug/l

RT: 10.31 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD062564.D

Acq: 31 May 2019 15:26

Instrument :

MSVOA_D

ClientSampled :

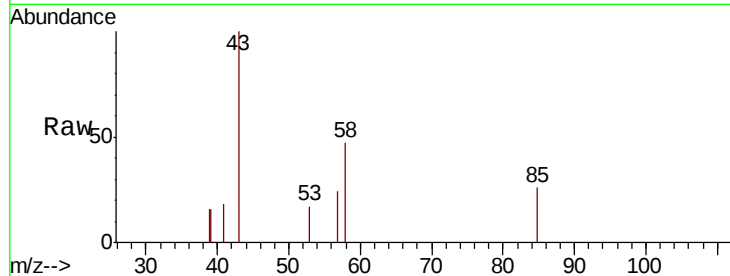
13903

Tot Ion: 43 Resp: 4815

Ion Ratio Lower Upper

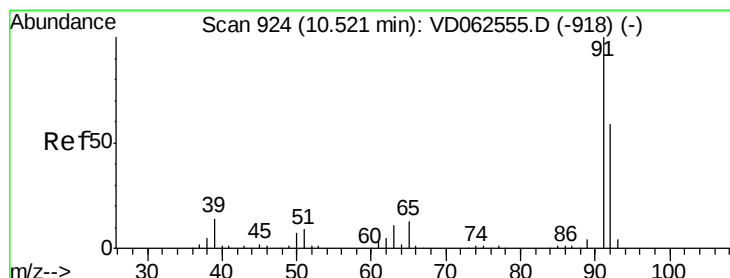
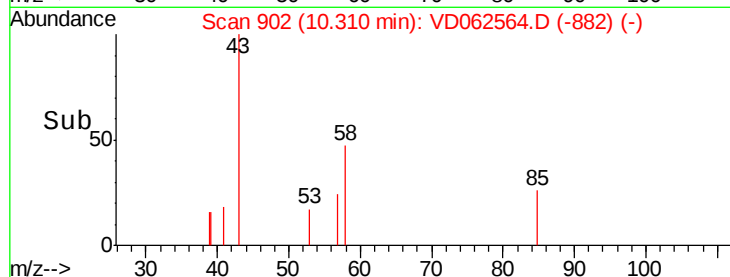
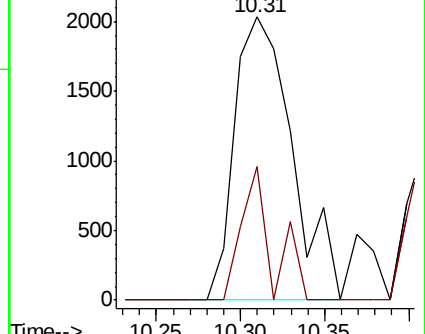
43 100

58 47.4 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 49.620 ug/l

RT: 10.53 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD062564.D

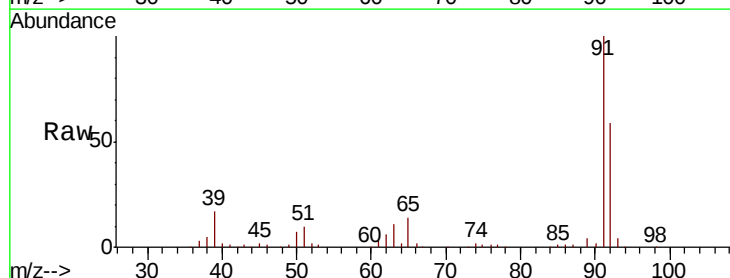
Acq: 31 May 2019 15:26

Tgt Ion: 92 Resp: 420951

Ion Ratio Lower Upper

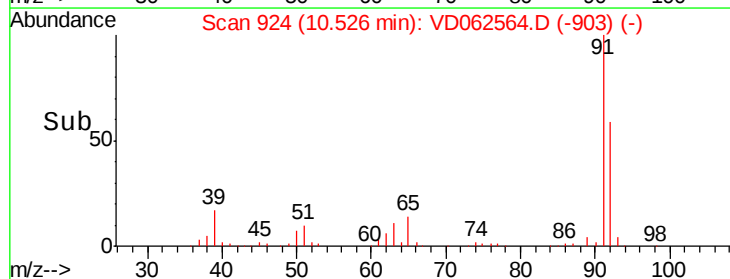
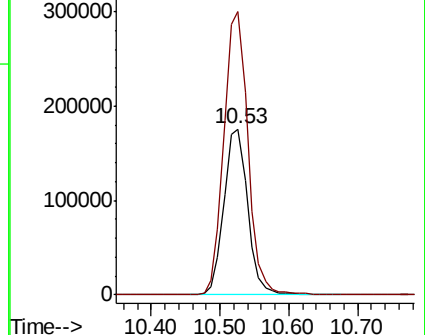
92 100

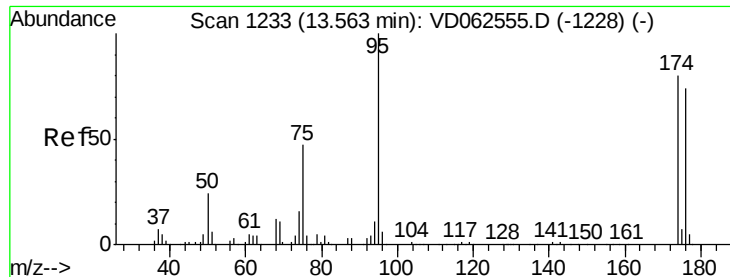
91 170.5 135.5 203.3



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

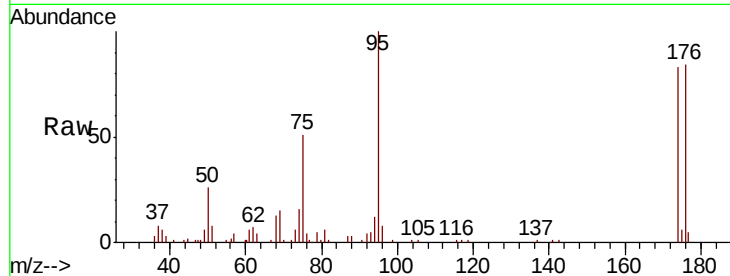




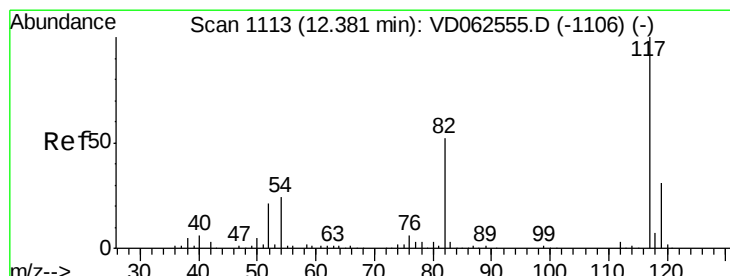
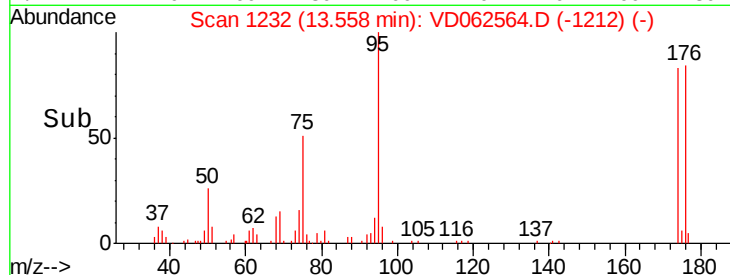
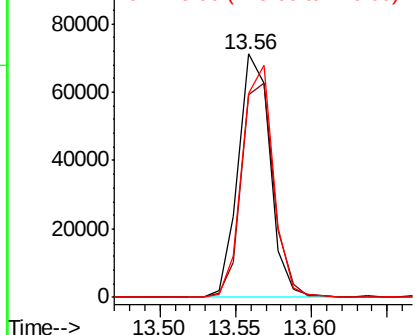
#62
4-Bromofluorobenzene
Concen: 18.268 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Instrument :
MSVOA_D
ClientSampled :
13903

Tot Ion: 95 Resp: 104719
Ion Ratio Lower Upper
95 100
174 83.1 0.0 160.2
176 83.9 0.0 148.0

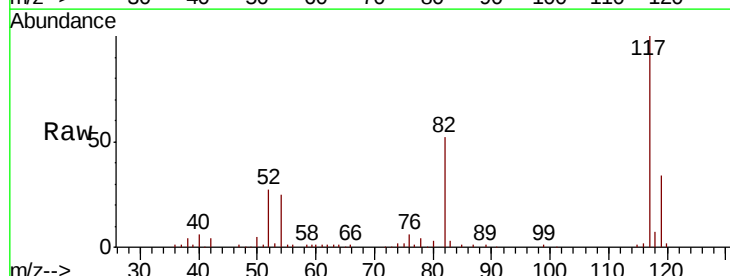


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

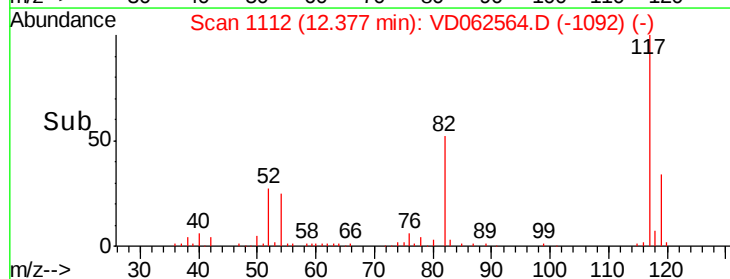
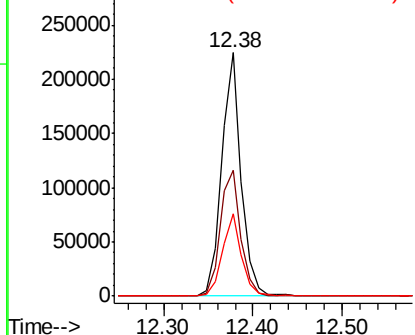


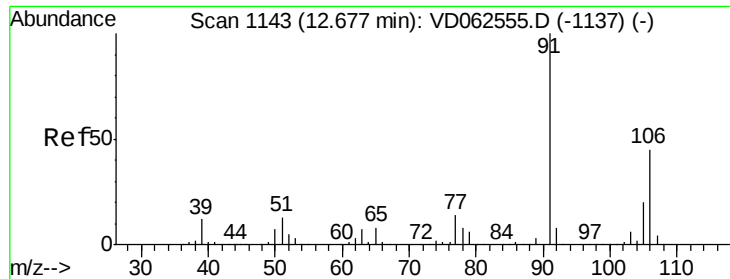
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Tgt Ion: 117 Resp: 344218
Ion Ratio Lower Upper
117 100
82 51.7 41.4 62.2
119 33.9 24.9 37.3



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

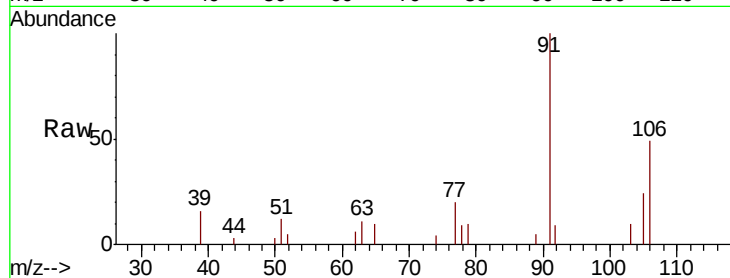




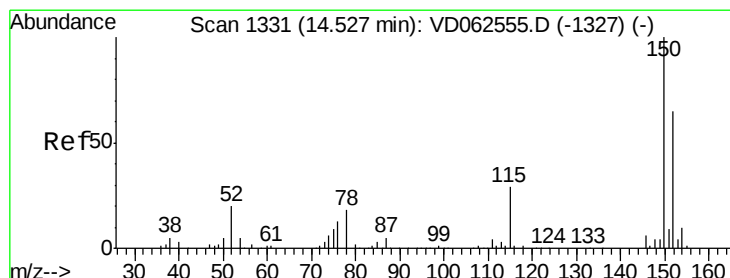
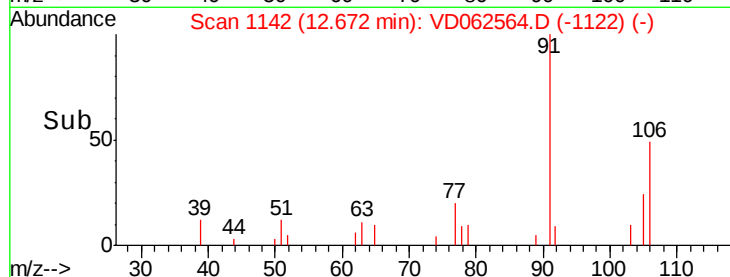
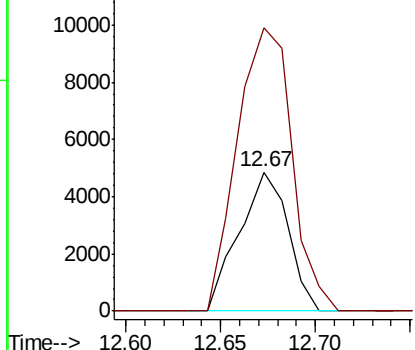
#68
m/p-Xvlenes
Concen: 2.044 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Instrument :
MSVOA_D
ClientSampled :
13903

Tot Ion:106 Resp: 8687
Ion Ratio Lower Upper
106 100
91 203.8 178.9 268.3

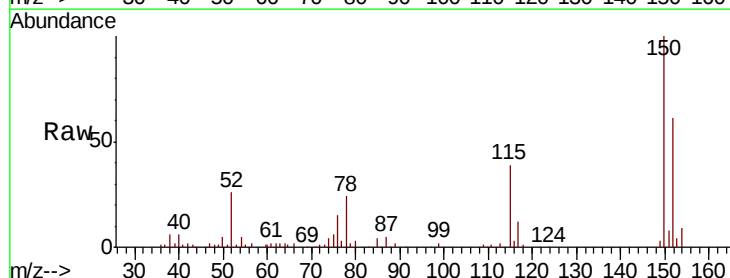


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

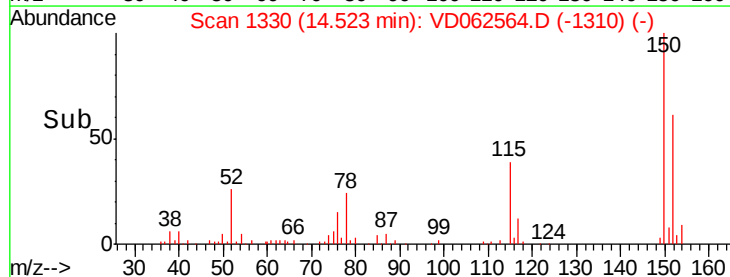
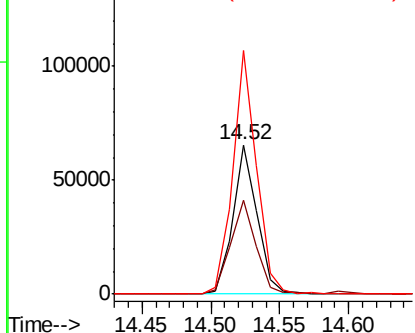


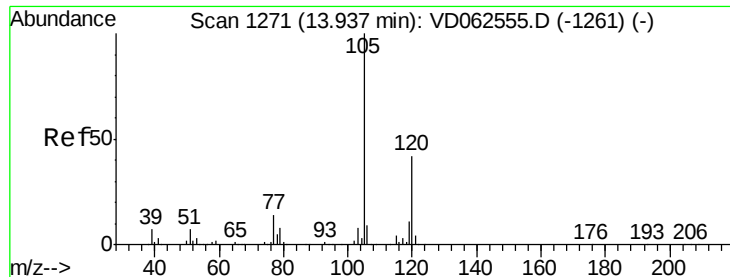
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062564.D
Acq: 31 May 2019 15:26

Tgt Ion:152 Resp: 79610
Ion Ratio Lower Upper
152 100
115 63.0 28.4 85.3
150 163.3 0.0 310.4



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

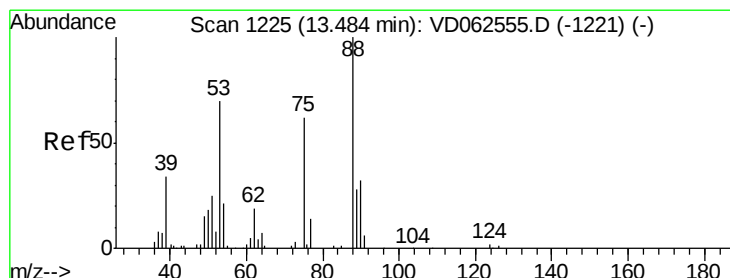
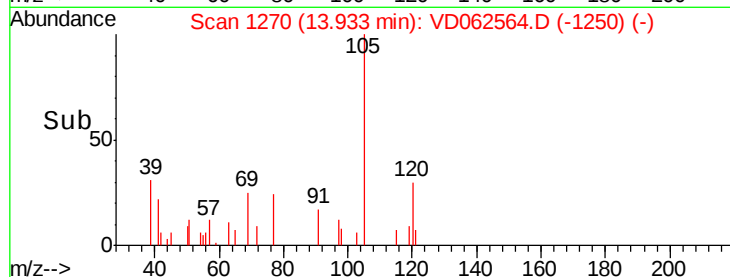
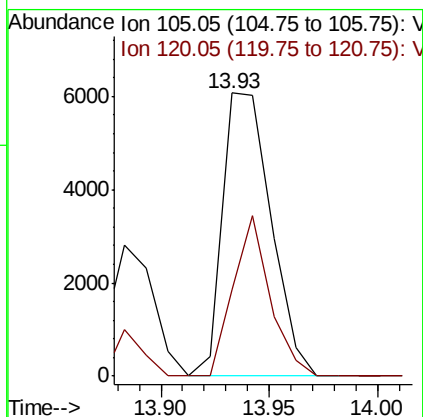
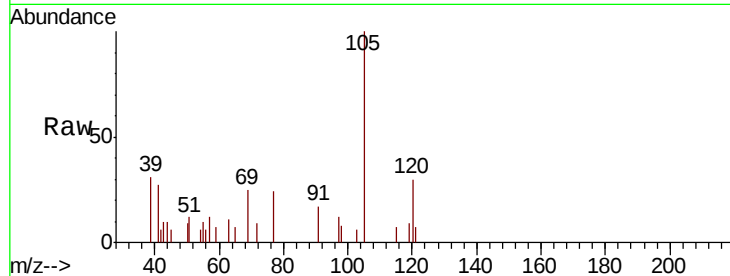




#80
 1,3,5-Trimethylbenzene
 Concen: 2.115 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD062564.D
 Acq: 31 May 2019 15:26

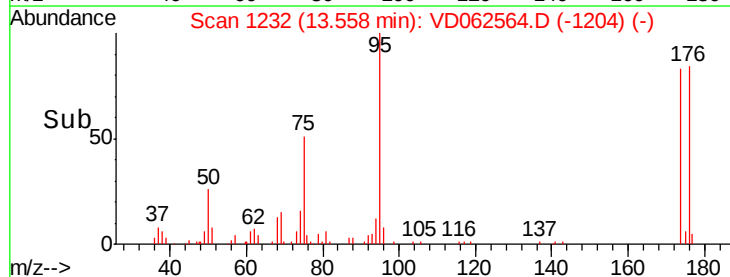
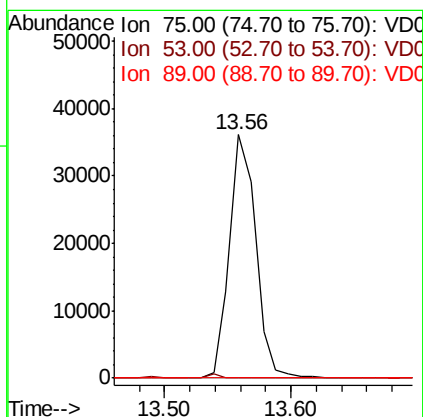
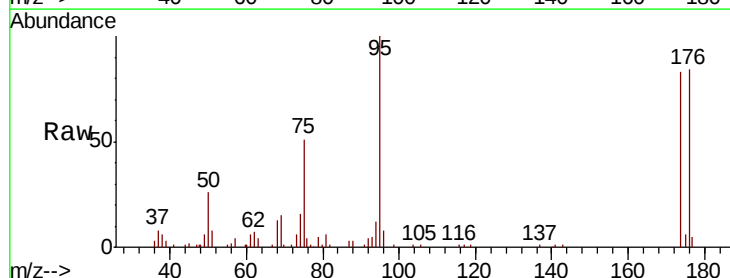
Instrument :
 MSVOA_D
 ClientSampled :
 13903

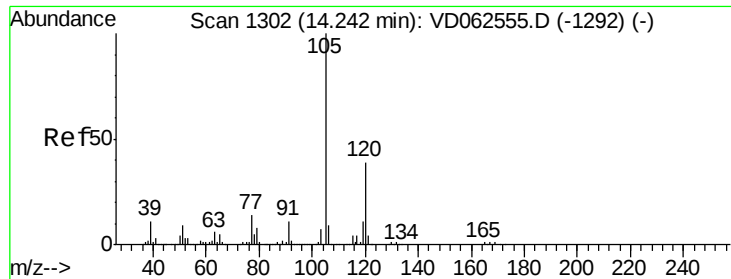
Tot Ion:105 Resp: 9483
 Ion Ratio Lower Upper
 105 100
 120 30.4 20.8 62.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 190.669 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD062564.D
 Acq: 31 May 2019 15:26

Tgt Ion: 75 Resp: 52181
 Ion Ratio Lower Upper
 75 100
 53 0.0 91.0 136.4#
 89 0.0 36.9 55.3#

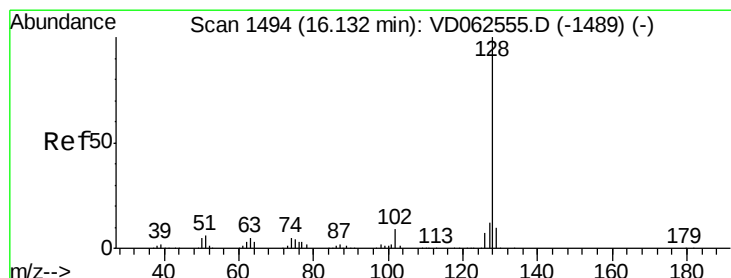
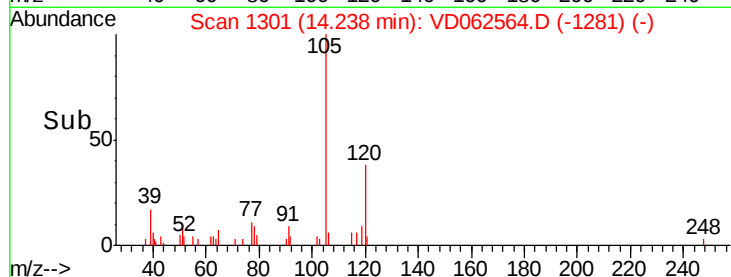
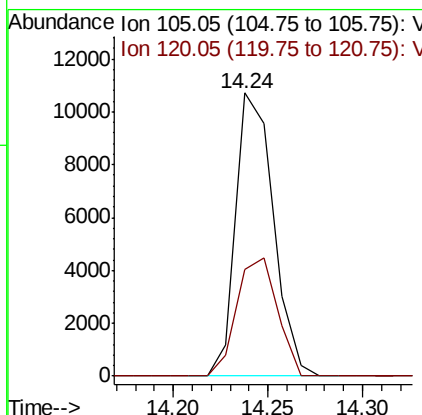
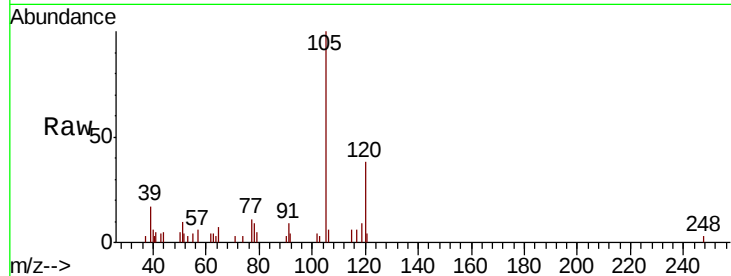




#84
 1,2,4-Trimethylbenzene
 Concen: 3.216 ug/l
 RT: 14.24 min Scan# 1301
 Delta R.T. -0.00 min
 Lab File: VD062564.D
 Acq: 31 May 2019 15:26

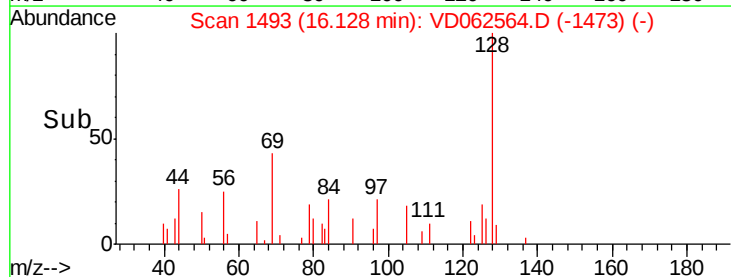
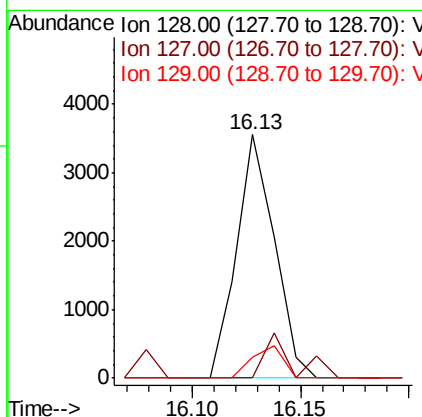
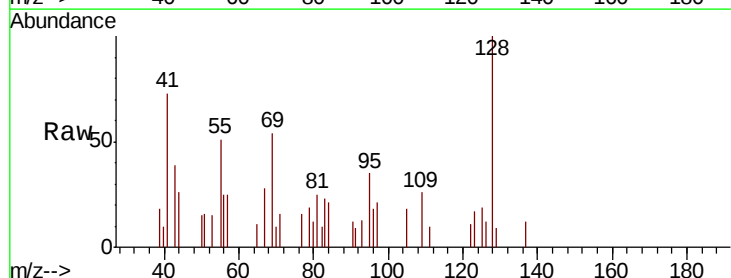
Instrument :
 MSVOA_D
 ClientSampleId :
 13903

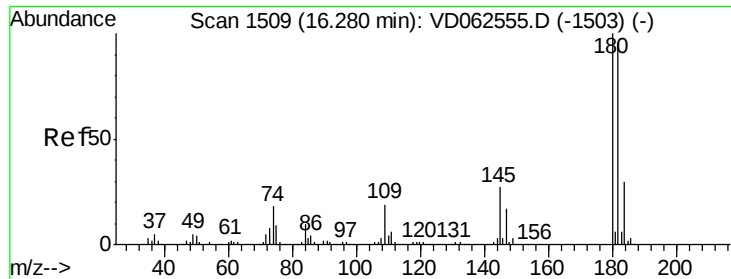
Tot Ion:105 Resp: 14699
 Ion Ratio Lower Upper
 105 100
 120 37.8 19.6 58.8



#95
 Naphthalene
 Concen: 1.901 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD062564.D
 Acq: 31 May 2019 15:26

Tgt Ion:128 Resp: 4344
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.7 14.5#
 129 8.6 8.2 12.2

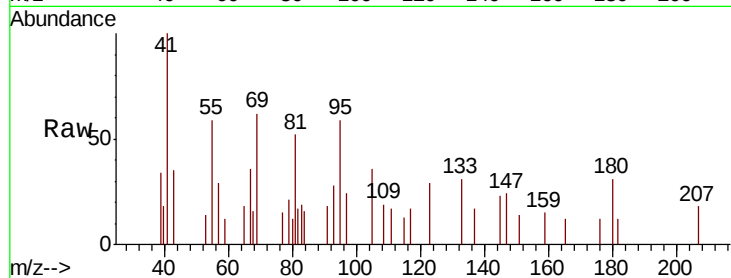




#96
 1,2,3-Trichlorobenzene
 Concen: 1.147 ug/l
 RT: 16.28 min Scan# 1508
 Delta R.T. -0.00 min
 Lab File: VD062564.D
 Acq: 31 May 2019 15:26

Instrument :
 MSVOA_D
 ClientSampleId :
 13903

Tot Ion:180 Resp: 1438
 Ion Ratio Lower Upper
 180 100
 182 40.6 48.1 144.3#
 145 76.0 13.3 39.9#



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

