

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053119\
 Data File : VD062562.D
 Acq On : 31 May 2019 14:31
 Operator : VA/AP
 Sample : K3124-04
 Misc : 5.45g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-25-S2

Quant Time: May 31 23:26:22 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	797721	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.24	114	1084432	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	936234	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	489519	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	364191	38.94	ug/l	0.00
Spiked Amount			Recovery	=	77.88%	
35) Dibromofluoromethane	6.94	113	371250	37.57	ug/l	0.00
Spiked Amount			Recovery	=	75.14%	
50) Toluene-d8	10.42	98	759644	35.08	ug/l	0.00
Spiked Amount			Recovery	=	70.16%	
62) 4-Bromofluorobenzene	13.56	95	354863	36.34	ug/l	0.00
Spiked Amount			Recovery	=	72.68%	

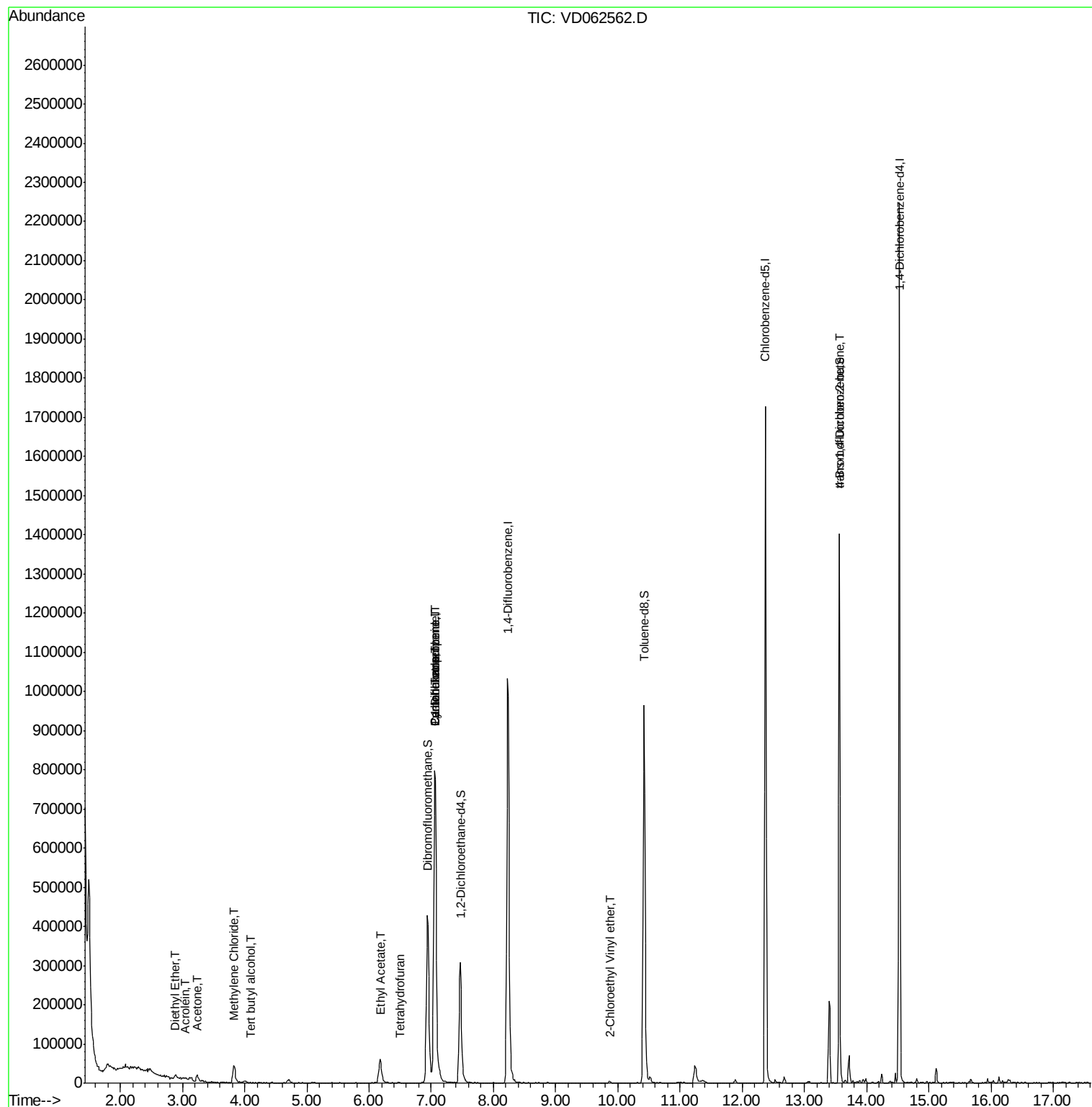
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	4941	Below Cal		90
8) Diethyl Ether	2.89	74	2300	1.200	ug/l	93
11) Tert butyl alcohol	4.09	59	1157	2.900	ug/l #	80
13) Acrolein	3.06	56	440	2.531	ug/l	82
16) Acetone	3.24	43	39289	21.379	ug/l	99
20) Methylene Chloride	3.83	84	31111	4.573	ug/l	92
29) Tetrahydrofuran	6.48	42	1427	1.841	ug/l #	45
31) Cyclohexane	7.05	56	20873	2.403	ug/l #	17
36) 1,1-Dichloropropene	7.05	75	65361	6.055	ug/l #	49
37) Ethyl Acetate	6.18	43	5179	1.138	ug/l #	1
38) Carbon Tetrachloride	7.05	117	86904	5.407	ug/l #	17
58) 2-Chloroethyl Vinyl ether	9.88	63	2671	1.030	ug/l #	3
81) trans-1,4-Dichloro-2-buten	13.56	75	172796	102.683	ug/l #	5

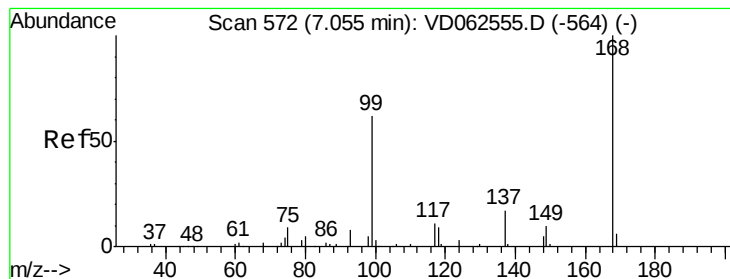
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD062562.D

Acq: 31 May 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

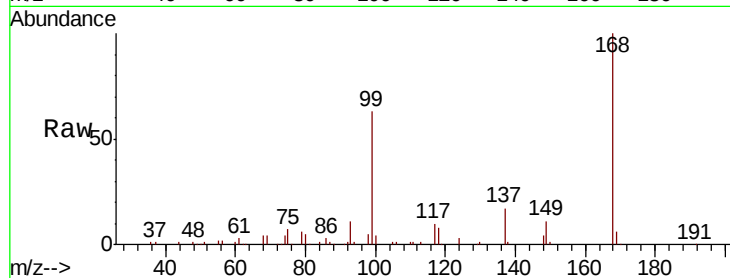
TP-25-S2

Tot Ion:168 Resp: 797721

Ion Ratio Lower Upper

168 100

99 62.9 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

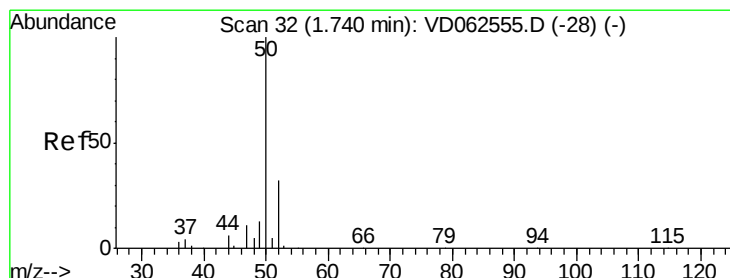
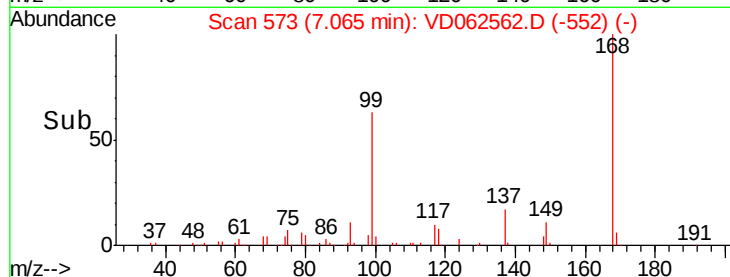
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD062562.D

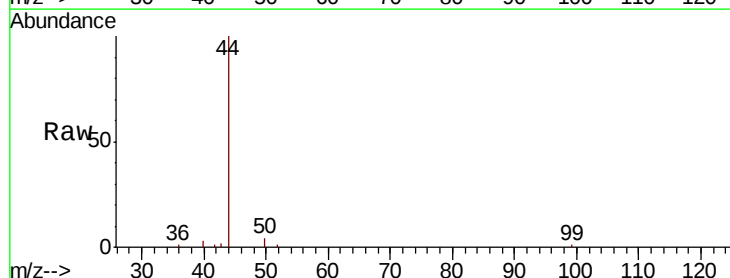
Acq: 31 May 2019 14:31

Tgt Ion: 50 Resp: 4941

Ion Ratio Lower Upper

50 100

52 37.2 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1500

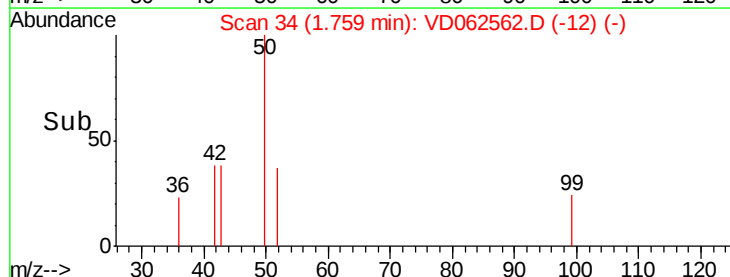
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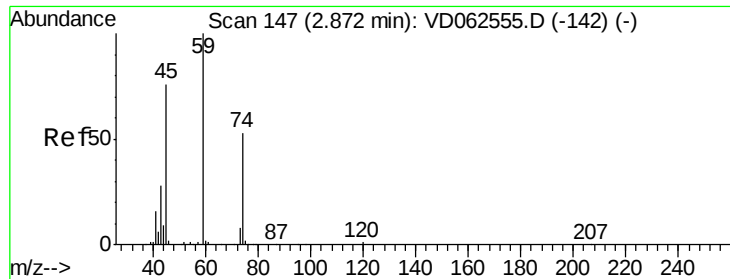
500

0

Time-->

1.70 1.75 1.80 1.85





#8

Diethyl Ether

Concen: 1.200 ug/l

RT: 2.89 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD062562.D

Acq: 31 May 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

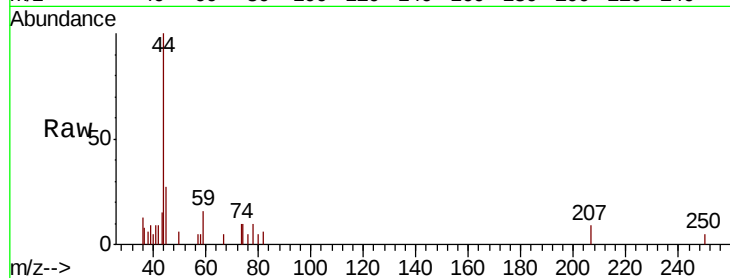
TP-25-S2

Tot Ion: 74 Resp: 2300

Ion Ratio Lower Upper

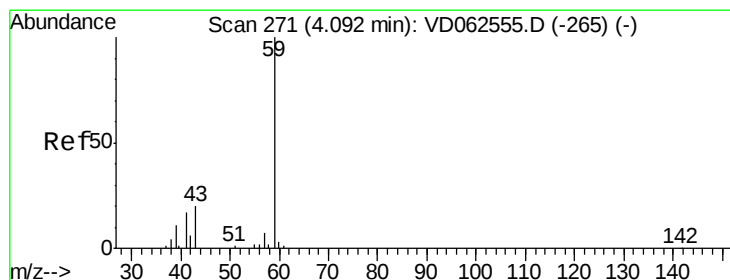
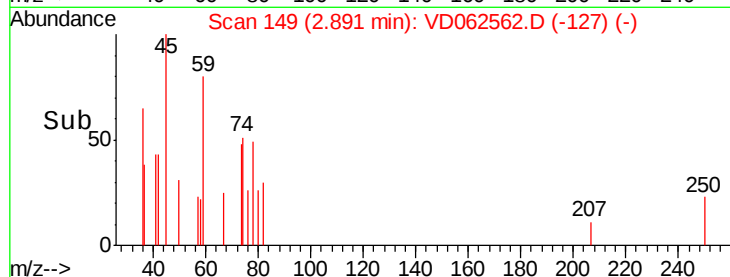
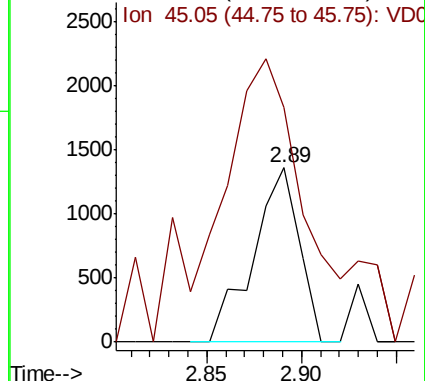
74 100

45 134.6 71.9 215.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 2.900 ug/l

RT: 4.09 min Scan# 271

Delta R.T. -0.00 min

Lab File: VD062562.D

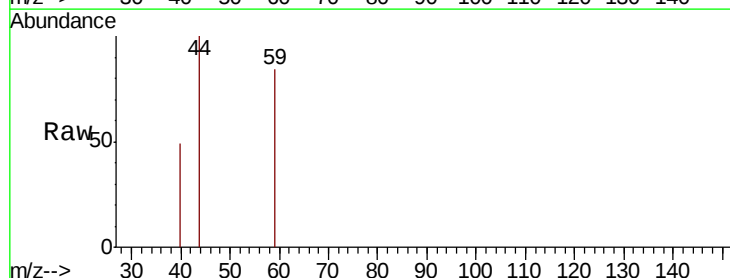
Acq: 31 May 2019 14:31

Tgt Ion: 59 Resp: 1157

Ion Ratio Lower Upper

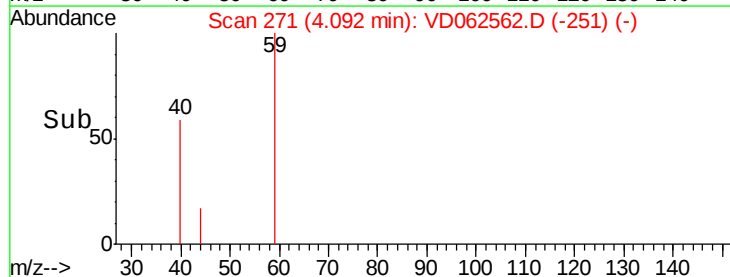
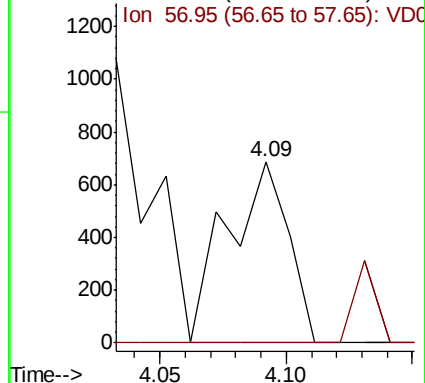
59 100

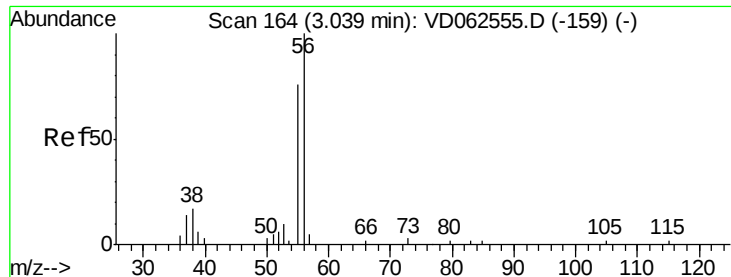
57 0.0 5.4 8.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

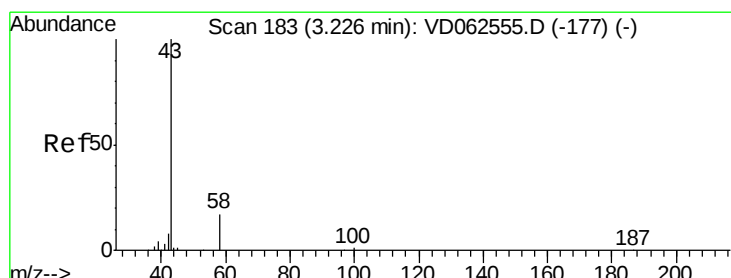
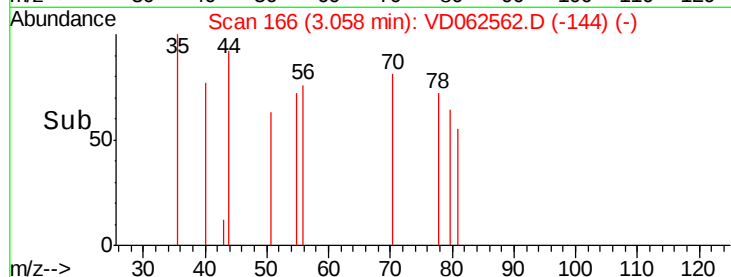
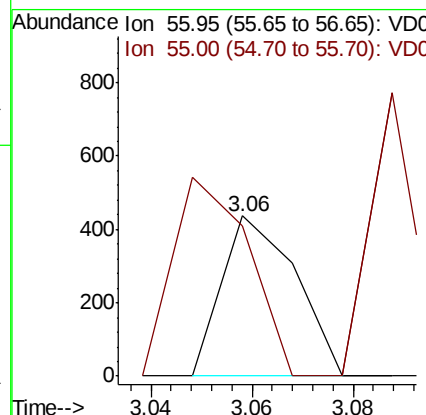
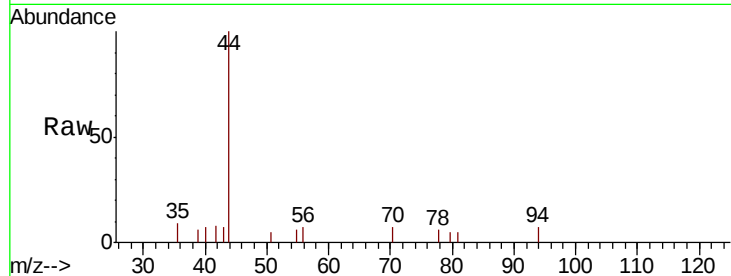




#13
Acrolein
Concen: 2.531 ug/l
RT: 3.06 min Scan# 166
Delta R.T. 0.02 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

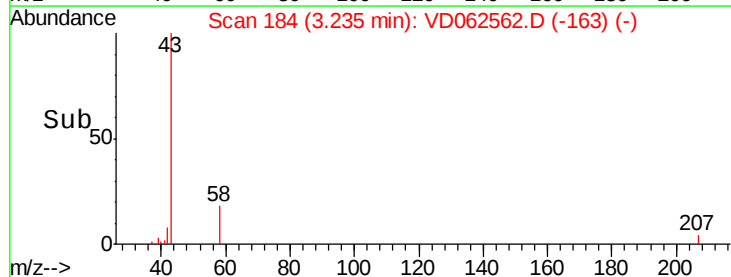
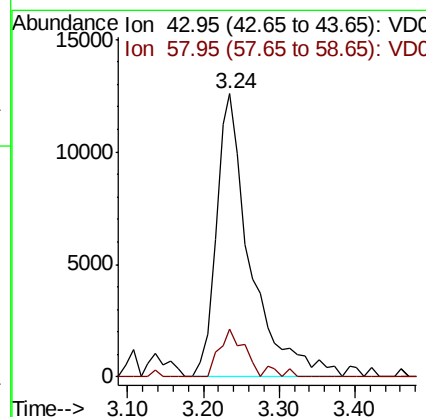
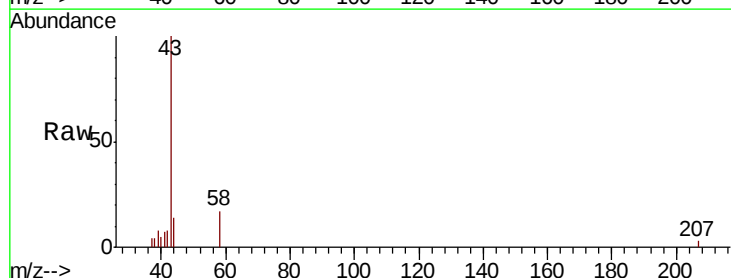
Instrument :
MSVOA_D
ClientSampled :
TP-25-S2

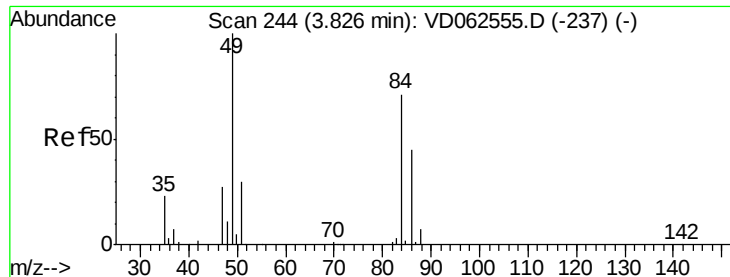
Tot Ion: 56 Resp: 440
Ion Ratio Lower Upper
56 100
55 93.6 62.6 93.8



#16
Acetone
Concen: 21.379 ug/l
RT: 3.24 min Scan# 184
Delta R.T. 0.01 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Tgt Ion: 43 Resp: 39289
Ion Ratio Lower Upper
43 100
58 16.9 13.8 20.8

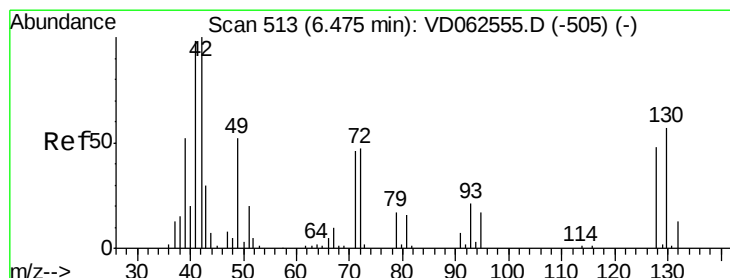
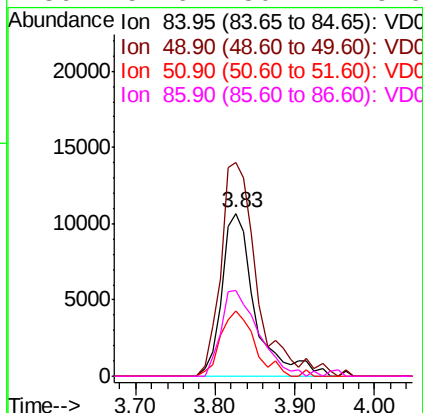
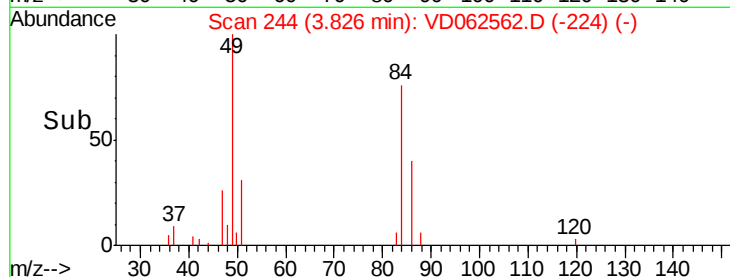
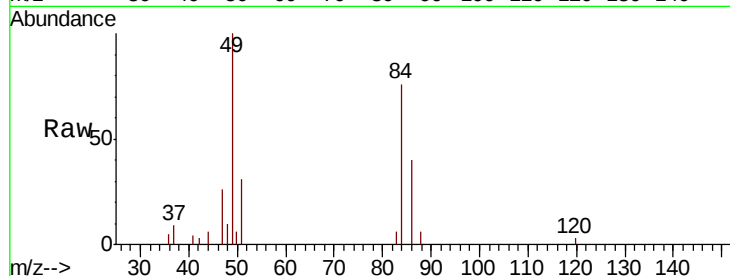




#20
Methvlene Chloride
Concen: 4.573 ug/l
RT: 3.83 min Scan# 244
Delta R.T. -0.00 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

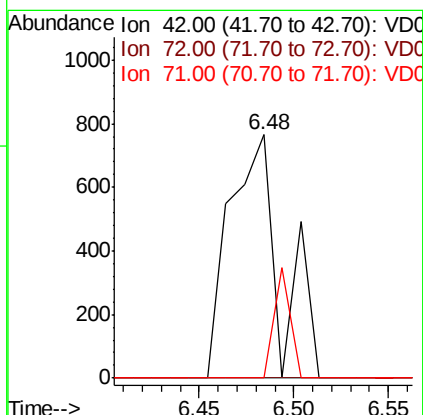
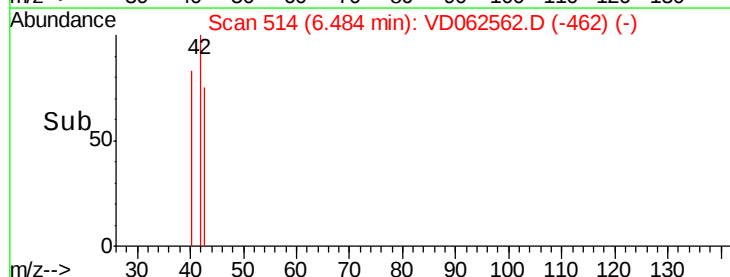
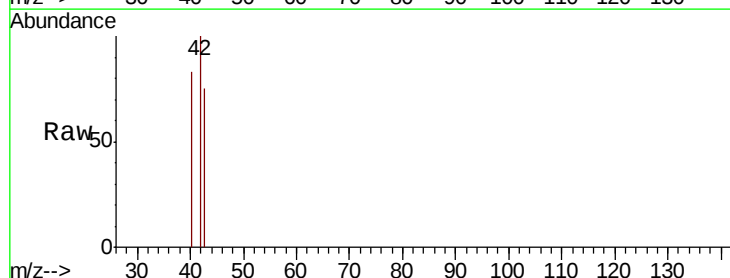
Instrument :
MSVOA_D
ClientSampled :
TP-25-S2

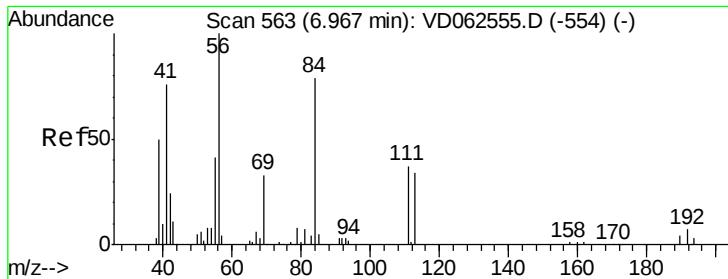
Tot Ion: 84 Resp: 31111
Ion Ratio Lower Upper
84 100
49 131.3 112.3 168.5
51 40.2 33.6 50.4
86 52.6 50.4 75.6



#29
Tetrahydrofuran
Concen: 1.841 ug/l
RT: 6.48 min Scan# 514
Delta R.T. 0.01 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Tgt Ion: 42 Resp: 1427
Ion Ratio Lower Upper
42 100
72 0.0 34.5 51.7#
71 14.4 33.0 49.6#

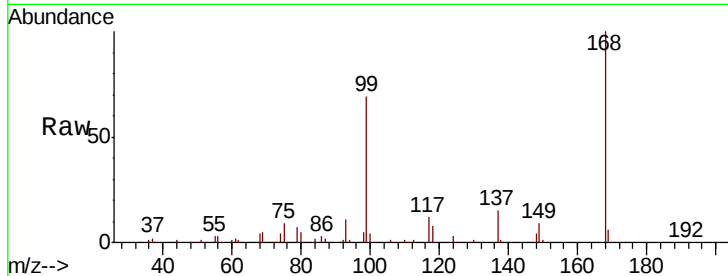




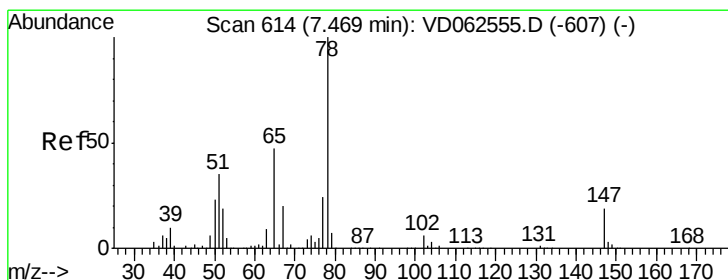
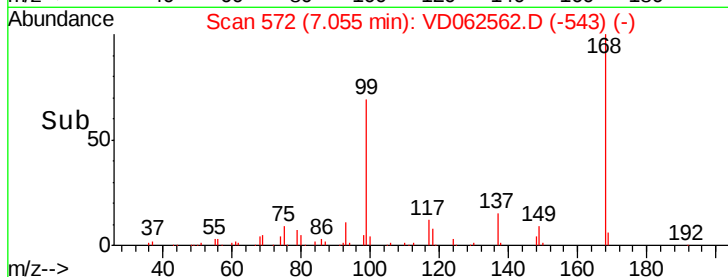
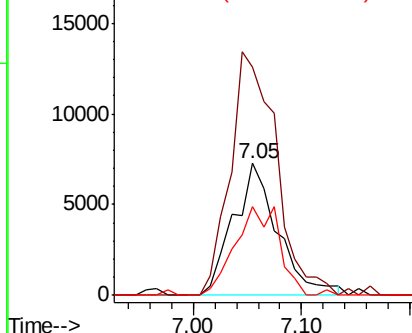
#31
Cyclohexane
Concen: 2.403 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.09 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Instrument :
MSVOA_D
ClientSampleId :
TP-25-S2

Tot Ion: 56 Resp: 20873
Ion Ratio Lower Upper
56 100
69 173.5 26.2 39.2#
84 67.3 65.2 97.8

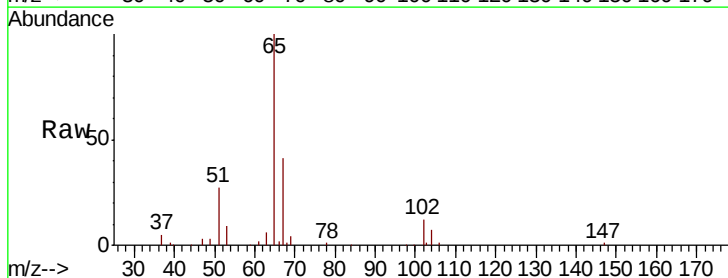


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

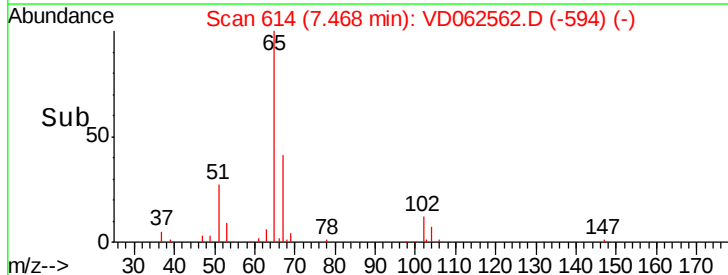
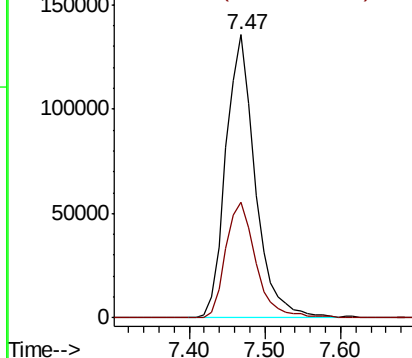


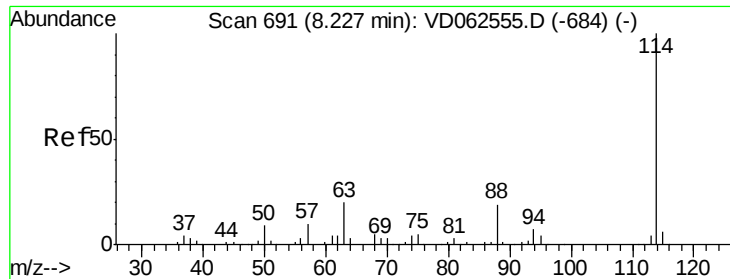
#33
1,2-Dichloroethane-d4
Concen: 38.936 ug/l
RT: 7.47 min Scan# 614
Delta R.T. -0.00 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Tgt Ion: 65 Resp: 364191
Ion Ratio Lower Upper
65 100
67 40.9 0.0 83.6



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

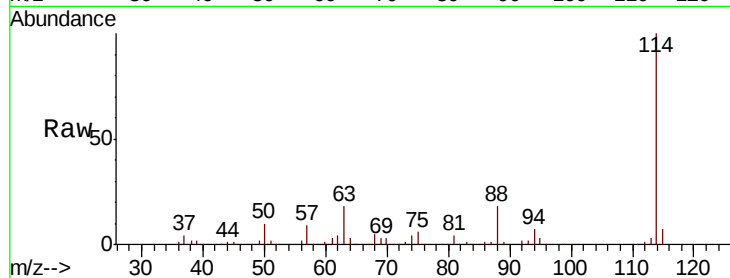




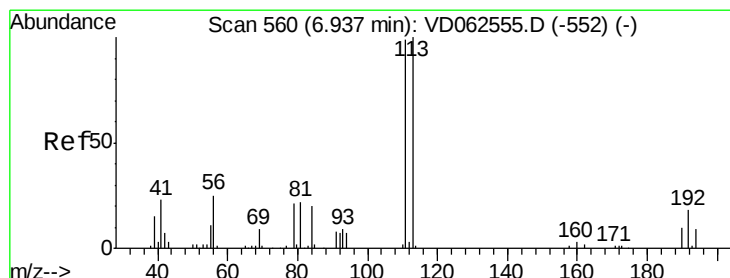
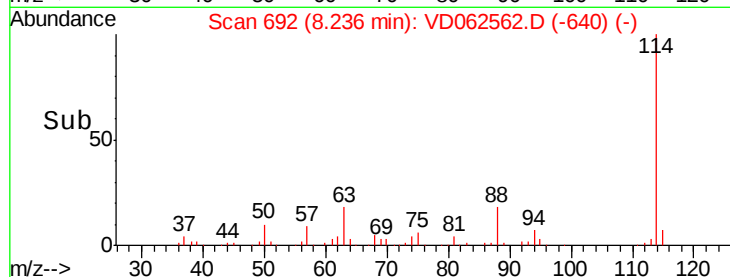
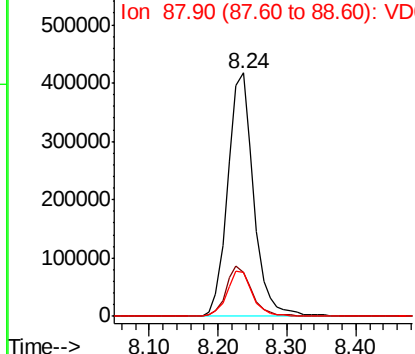
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.01 min
 Lab File: VD062562.D
 Acq: 31 May 2019 14:31

Instrument :
 MSVOA_D
 ClientSampled :
 TP-25-S2

Tot Ion:114 Resp: 1084432
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 40.6
 88 18.1 0.0 37.6

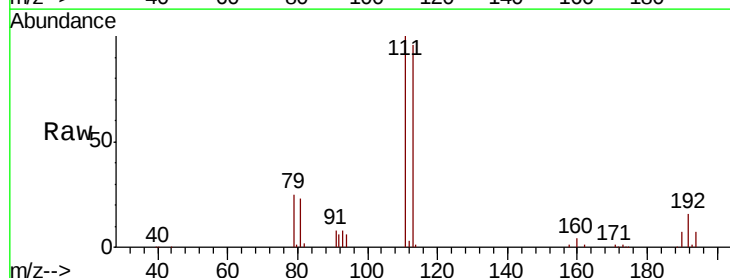


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

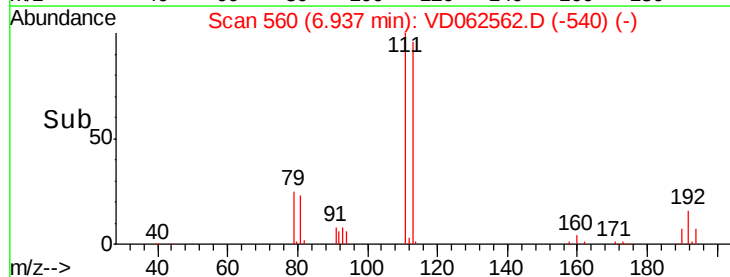
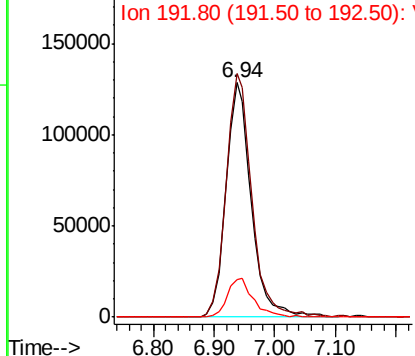


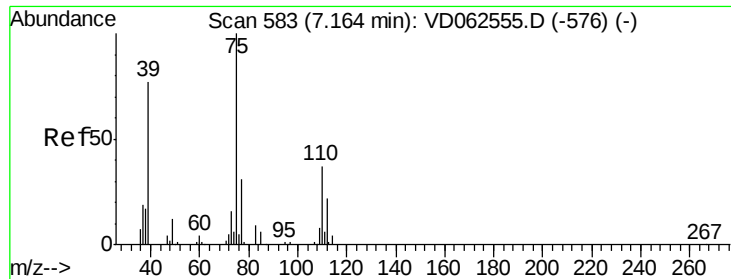
#35
 Dibromofluoromethane
 Concen: 37.568 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. -0.00 min
 Lab File: VD062562.D
 Acq: 31 May 2019 14:31

Tgt Ion:113 Resp: 371250
 Ion Ratio Lower Upper
 113 100
 111 104.0 78.8 118.2
 192 16.3 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: 6.055 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.11 min

Lab File: VD062562.D

Acq: 31 May 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-25-S2

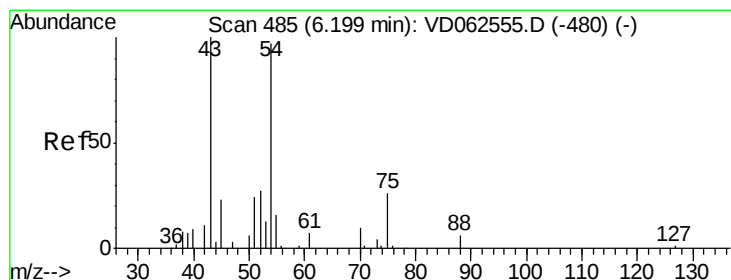
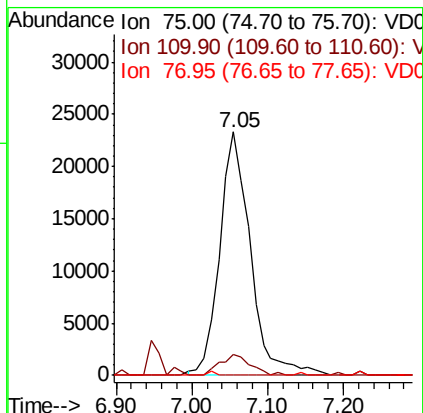
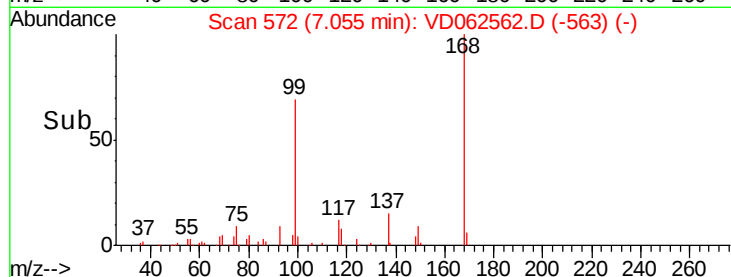
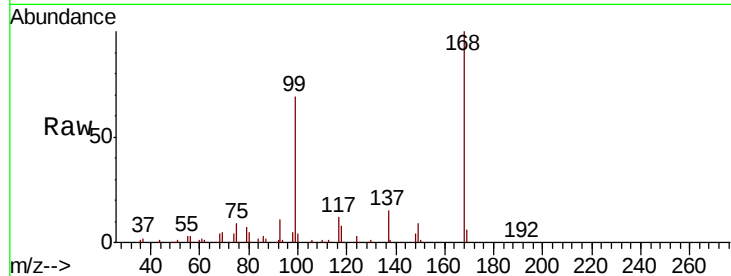
Tot Ion: 75 Resp: 65361

Ion Ratio Lower Upper

75 100

110 8.4 18.3 54.8#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.138 ug/l

RT: 6.18 min Scan# 483

Delta R.T. -0.02 min

Lab File: VD062562.D

Acq: 31 May 2019 14:31

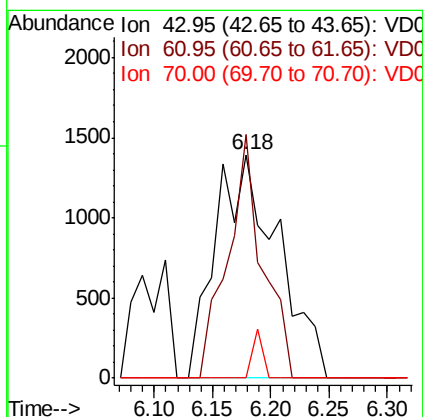
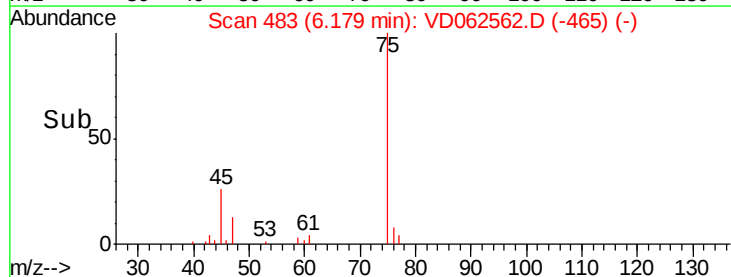
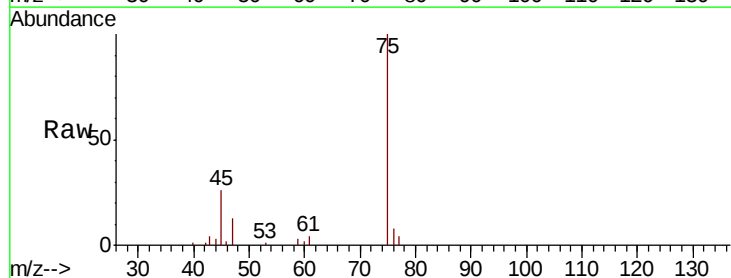
Tgt Ion: 43 Resp: 5179

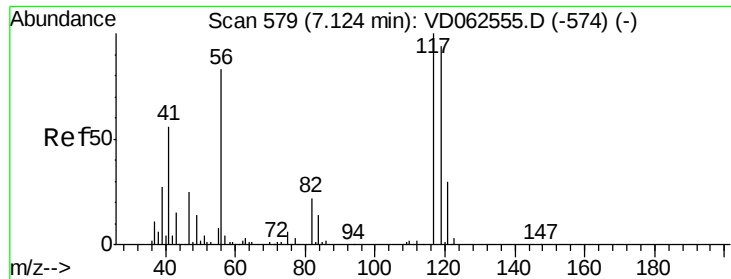
Ion Ratio Lower Upper

43 100

61 109.0 9.8 14.8#

70 0.0 6.5 9.7#

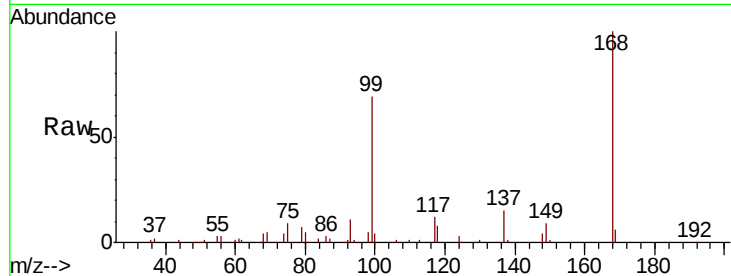




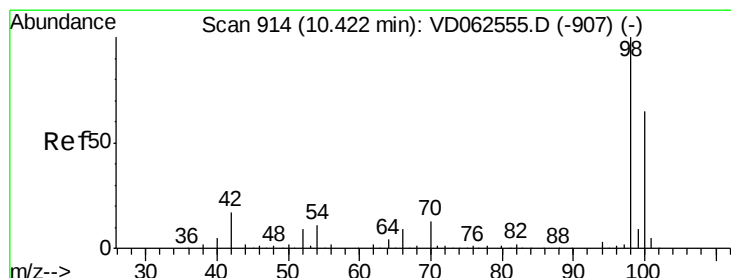
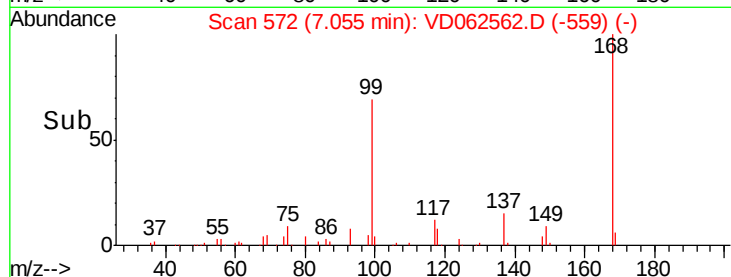
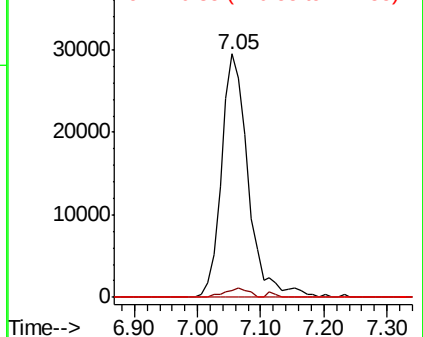
#38
Carbon Tetrachloride
Concen: 5.407 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.07 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Instrument :
MSVOA_D
ClientSampleId :
TP-25-S2

Tot Ion:117 Resp: 86904
Ion Ratio Lower Upper
117 100
119 3.0 71.4 107.2#
121 0.0 22.5 33.7#

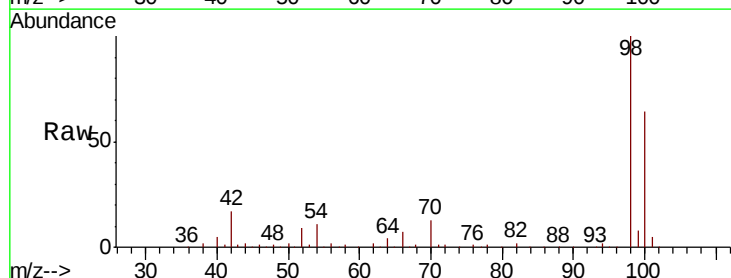


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

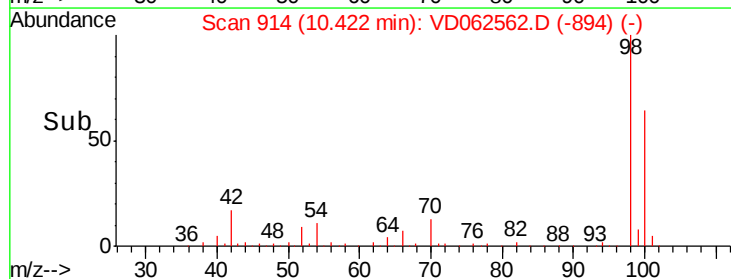
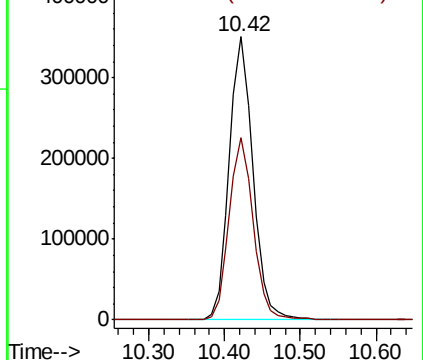


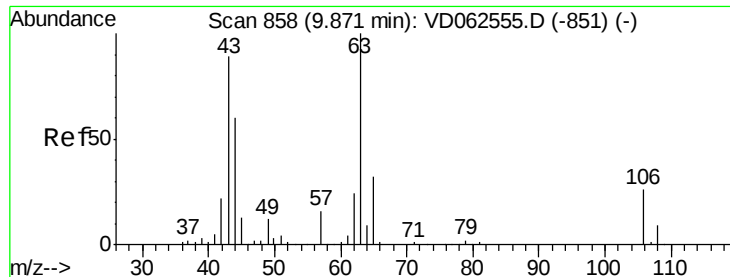
#50
Toluene-d8
Concen: 35.085 ug/l
RT: 10.42 min Scan# 914
Delta R.T. -0.00 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Tgt Ion: 98 Resp: 759644
Ion Ratio Lower Upper
98 100
100 64.3 52.3 78.5



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





#58

2-Chloroethyl Vinyl ether

Concen: 1.030 ug/l

RT: 9.88 min Scan# 859

Delta R.T. 0.01 min

Lab File: VD062562.D

Acq: 31 May 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

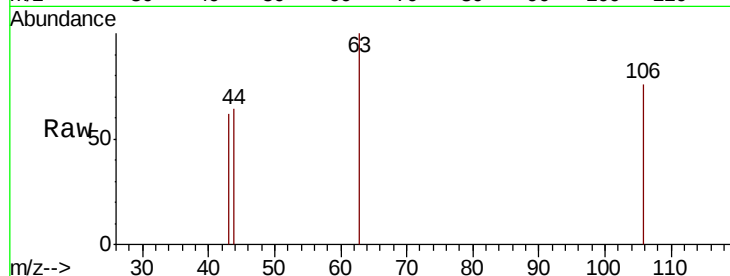
TP-25-S2

Tot Ion: 63 Resp: 2671

Ion Ratio Lower Upper

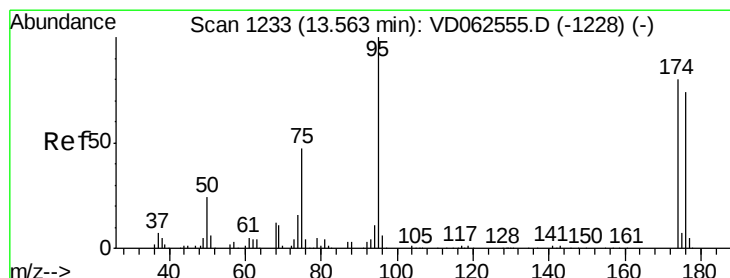
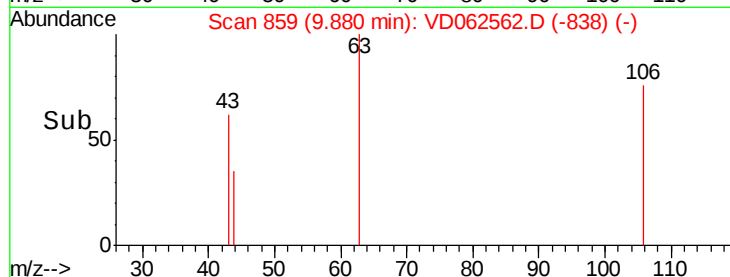
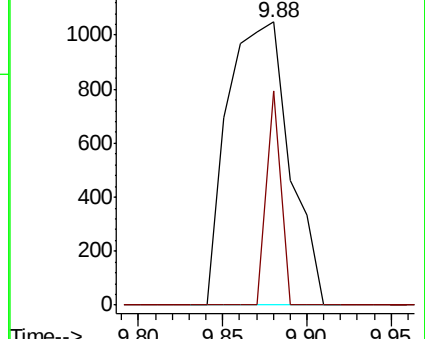
63 100

106 75.8 21.0 31.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V



#62

4-Bromofluorobenzene

Concen: 36.343 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VD062562.D

Acq: 31 May 2019 14:31

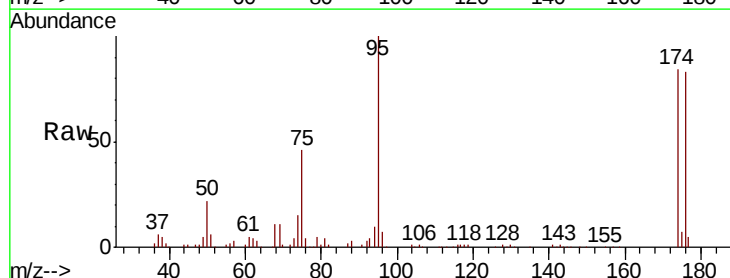
Tgt Ion: 95 Resp: 354863

Ion Ratio Lower Upper

95 100

174 84.1 0.0 160.2

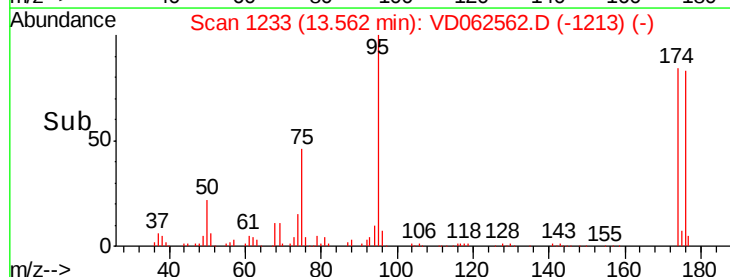
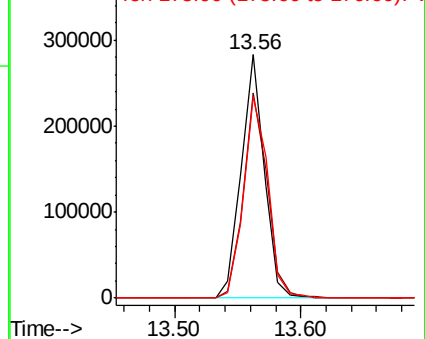
176 82.7 0.0 148.0

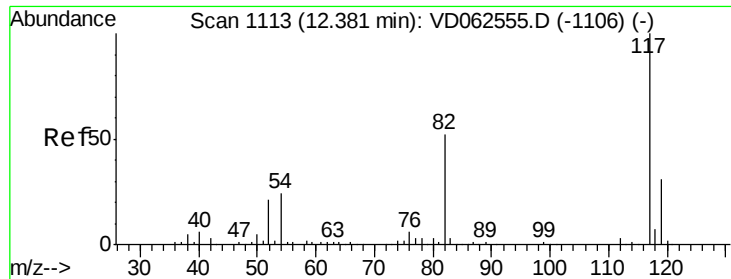


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

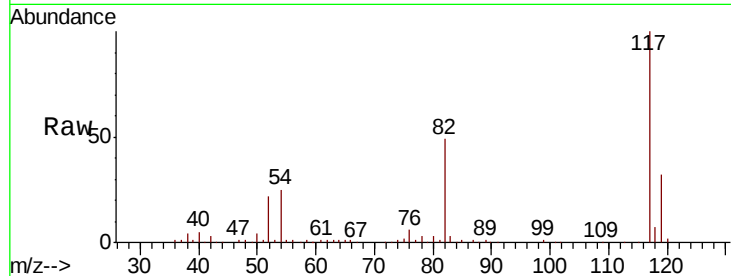




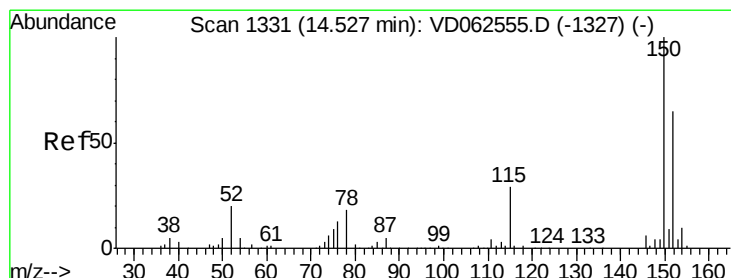
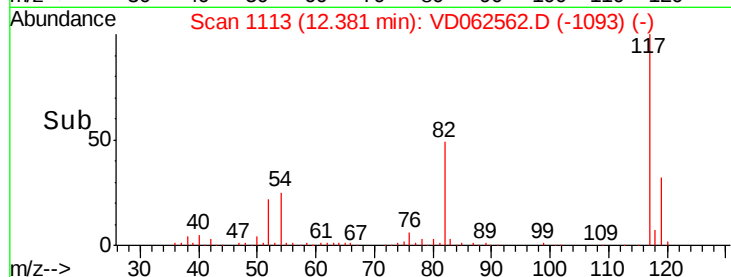
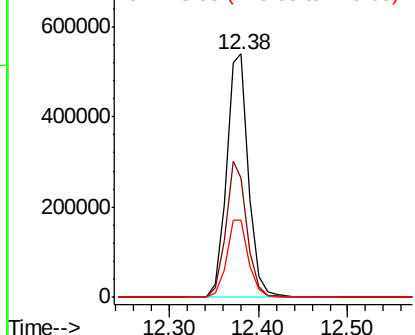
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Instrument :
MSVOA_D
ClientSampleId :
TP-25-S2

Tot Ion:117 Resp: 936234
Ion Ratio Lower Upper
117 100
82 49.2 41.4 62.2
119 31.5 24.9 37.3

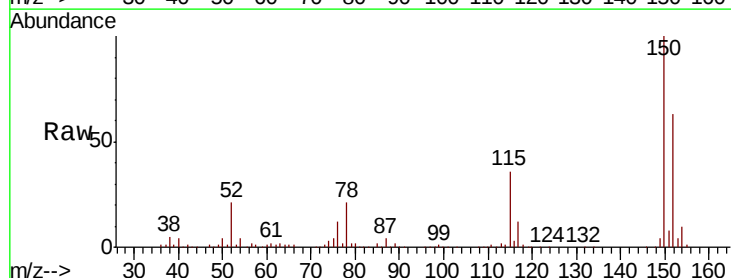


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

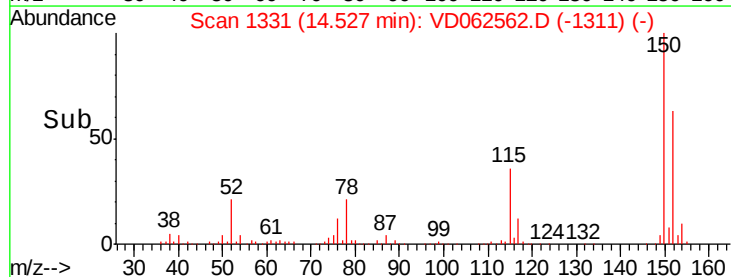
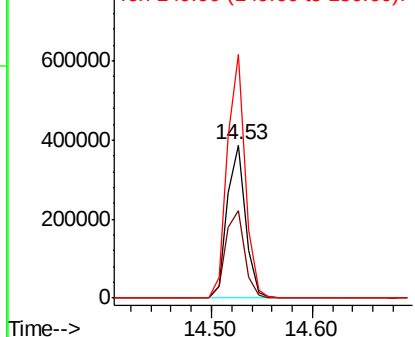


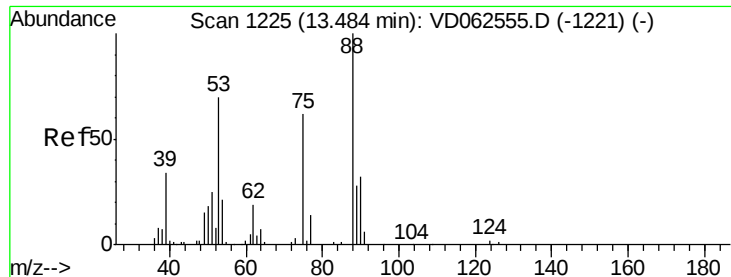
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VD062562.D
Acq: 31 May 2019 14:31

Tgt Ion:152 Resp: 489519
Ion Ratio Lower Upper
152 100
115 56.8 28.4 85.3
150 159.0 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





#81

trans-1,4-Dichloro-2-butene

Concen: 102.683 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD062562.D

Acq: 31 May 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-25-S2

Tot Ion: 75 Resp: 172796

Ion Ratio Lower Upper

75 100

53 0.0 91.0 136.4#

89 0.0 36.9 55.3#

