

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063178.D
 Acq On : 22 Jul 2019 15:47
 Operator : VA/AP
 Sample : K3868-11
 Misc : 4.43g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4

Quant Time: Jul 23 07:49:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	877141	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.24	114	1197446	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	987957	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	499643	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	612178	56.03	ug/l	0.02
Spiked Amount			Recovery	=	112.06%	
35) Dibromofluoromethane	6.94	113	660614	55.39	ug/l	0.02
Spiked Amount			Recovery	=	110.78%	
50) Toluene-d8	10.42	98	1353103	52.82	ug/l	0.02
Spiked Amount			Recovery	=	105.64%	
62) 4-Bromofluorobenzene	13.56	95	610751	51.53	ug/l	0.01
Spiked Amount			Recovery	=	103.06%	

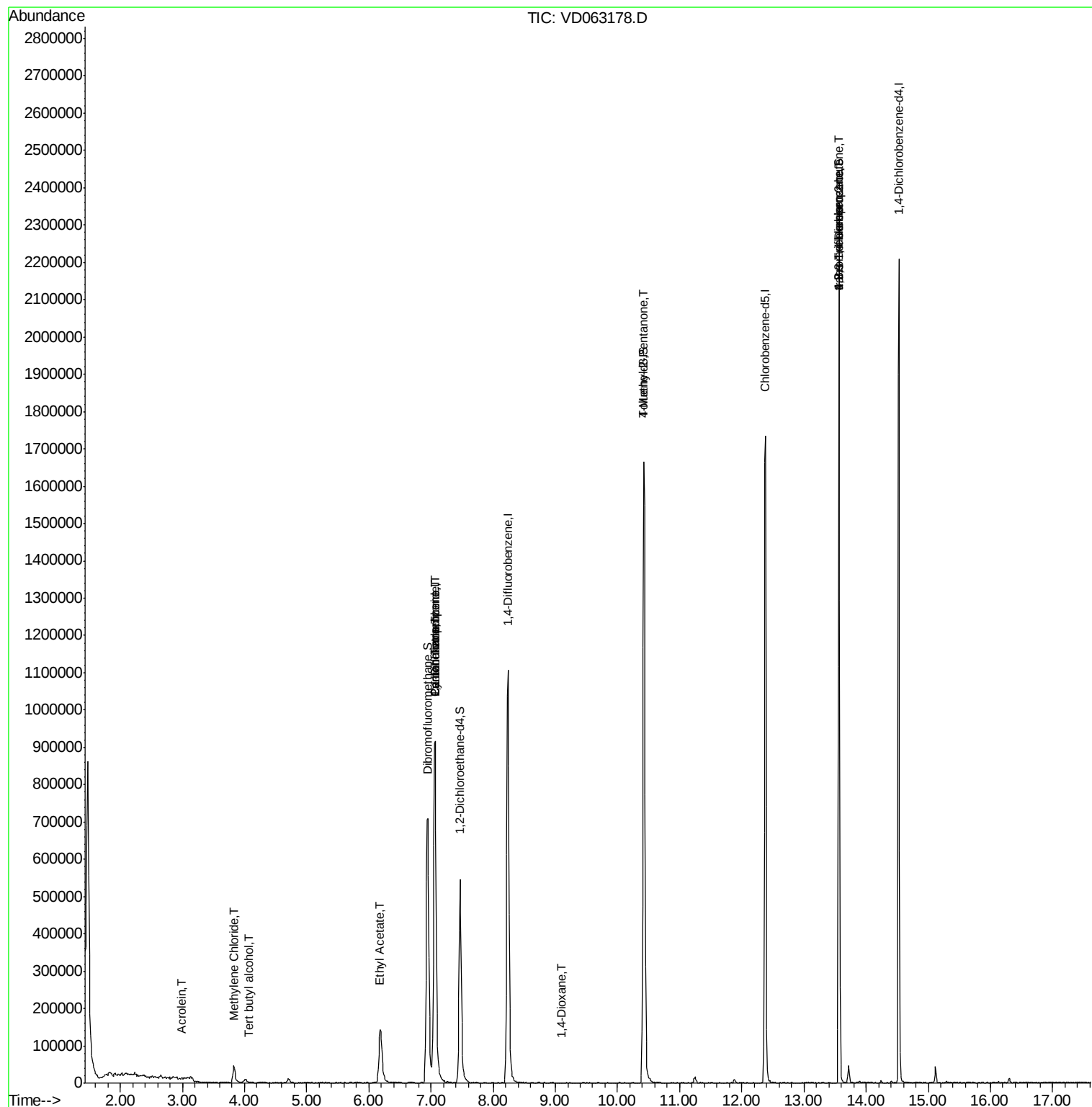
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	676	Below Cal	#	43
3) Chloromethane	1.75	50	661	Below Cal	#	48
5) Bromomethane	2.15	94	1062	Below Cal	#	13
11) Tert butyl alcohol	4.07	59	2335	3.703	ug/l #	77
13) Acrolein	3.00	56	223	1.172	ug/l #	80
18) Methyl Acetate	3.65	43	455	Below Cal	#	63
20) Methylene Chloride	3.83	84	22381	2.245	ug/l #	68
31) Cyclohexane	7.06	56	21433	2.061	ug/l #	32
36) 1,1-Dichloropropene	7.07	75	68282	5.070	ug/l #	47
37) Ethyl Acetate	6.19	43	12862	2.232	ug/l #	3
38) Carbon Tetrachloride	7.07	117	86135	4.209	ug/l #	14
49) 1,4-Dioxane	9.09	88	181	3.868	ug/l #	1
51) 4-Methyl-2-Pentanone	10.42	43	8096	1.478	ug/l #	1
76) 1,2,3-Trichloropropane	13.56	75	271834	35.368	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	281762	139.211	ug/l #	1

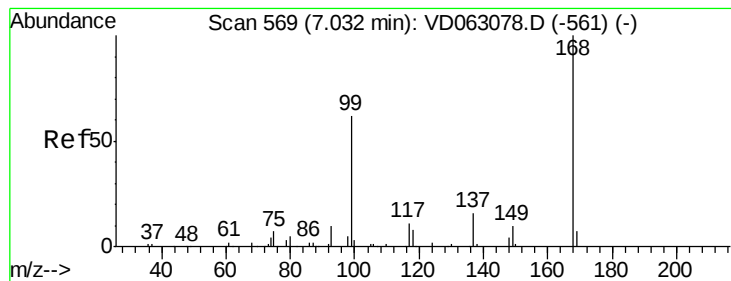
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.03 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Instrument :

MSVOA_D

ClientSampled :

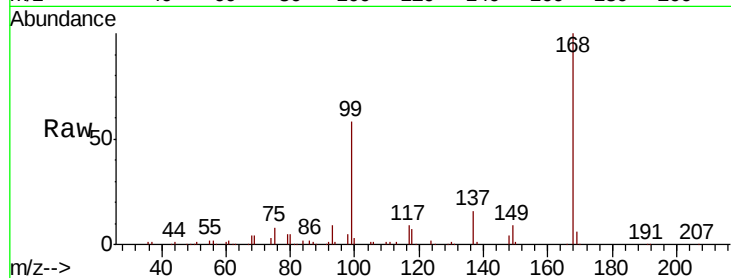
TP-4

Tot Ion:168 Resp: 877141

Ion Ratio Lower Upper

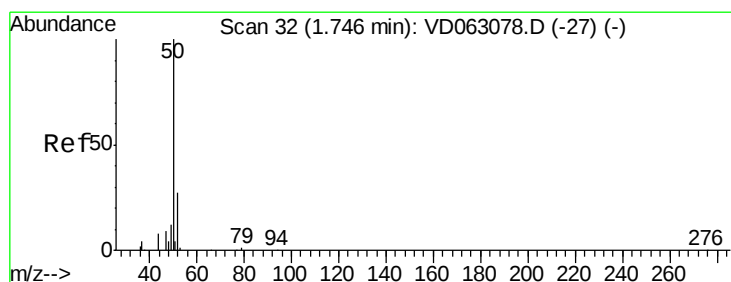
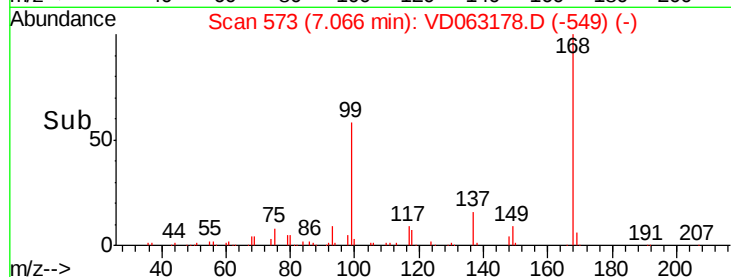
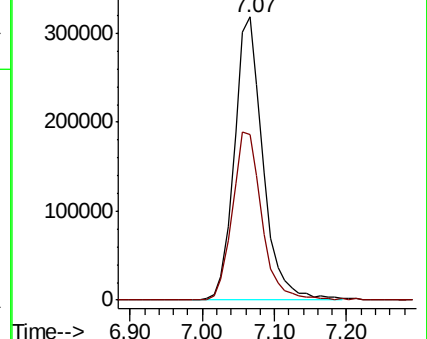
168 100

99 58.3 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD063178.D

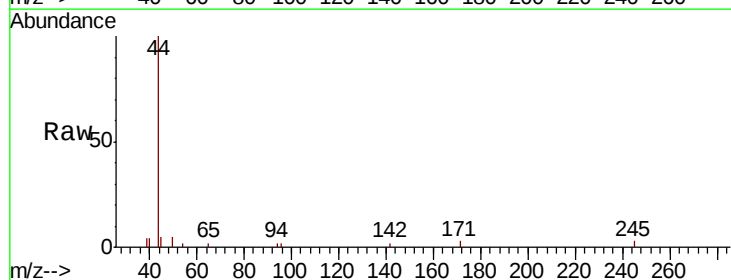
Acq: 22 Jul 2019 15:47

Tgt Ion: 50 Resp: 661

Ion Ratio Lower Upper

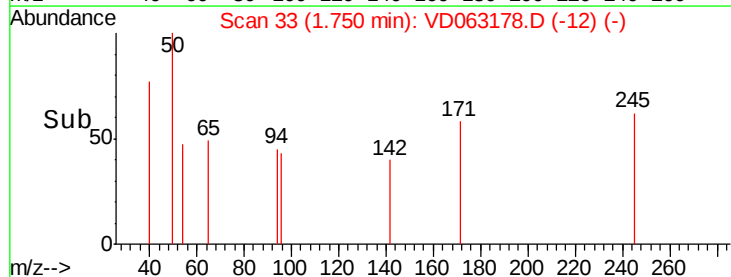
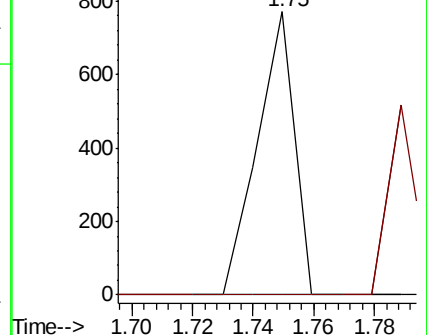
50 100

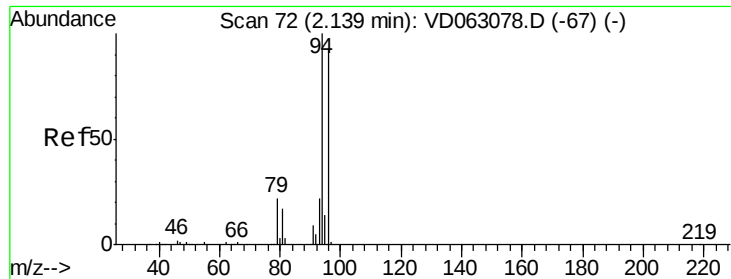
52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Instrument :

MSVOA_D

ClientSampled :

TP-4

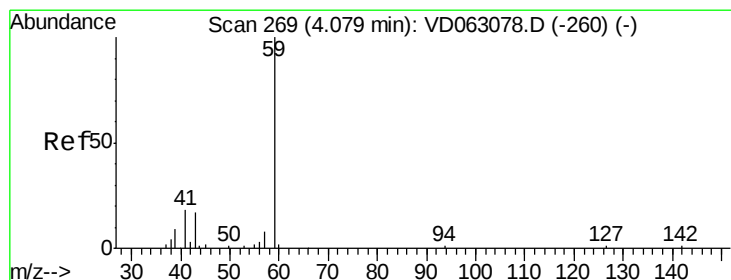
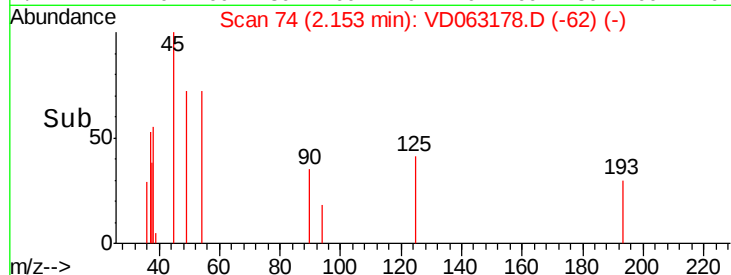
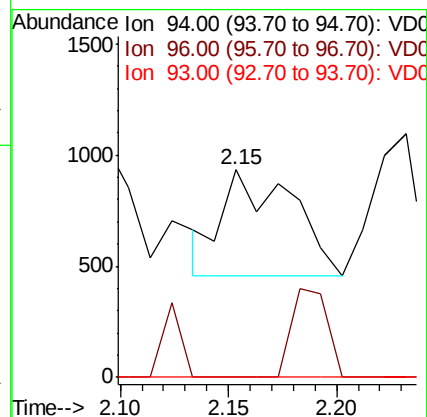
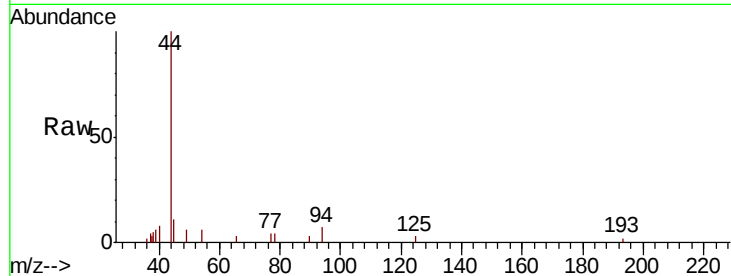
Tot Ion: 94 Resp: 1062

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 3.703 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD063178.D

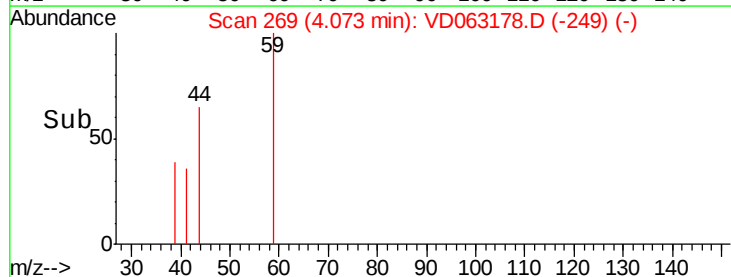
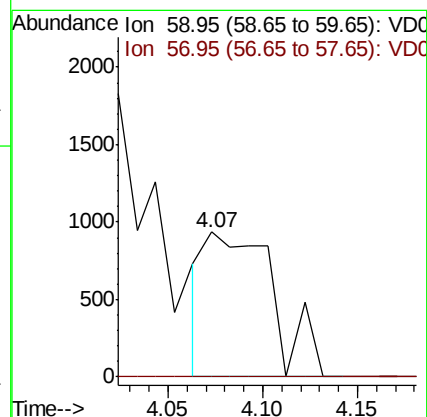
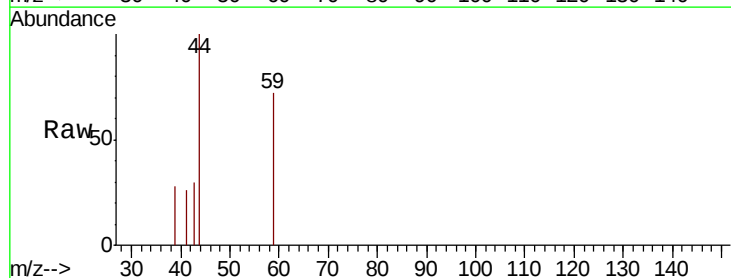
Acq: 22 Jul 2019 15:47

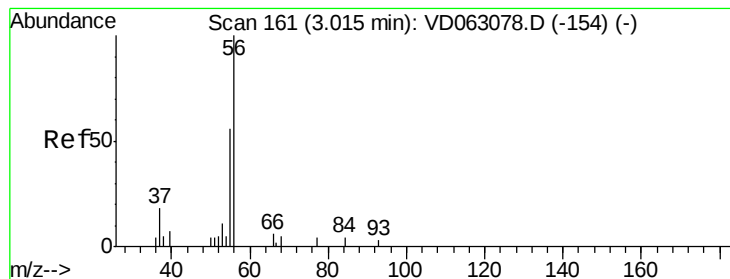
Tgt Ion: 59 Resp: 2335

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 1.172 ug/l

RT: 3.00 min Scan# 160

Delta R.T. -0.02 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Instrument :

MSVOA_D

ClientSampled :

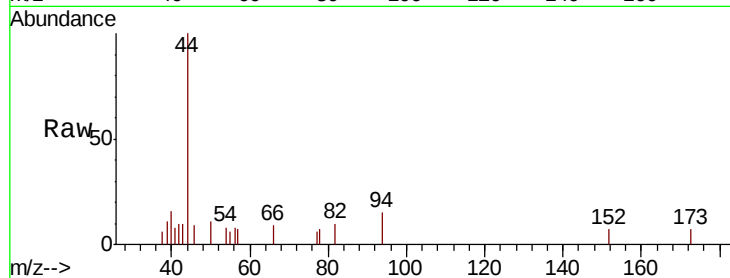
TP-4

Tot Ion: 56 Resp: 223

Ion Ratio Lower Upper

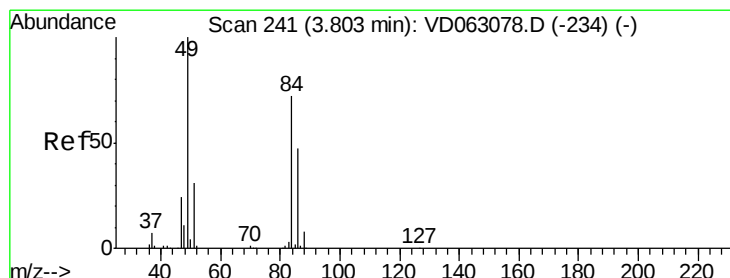
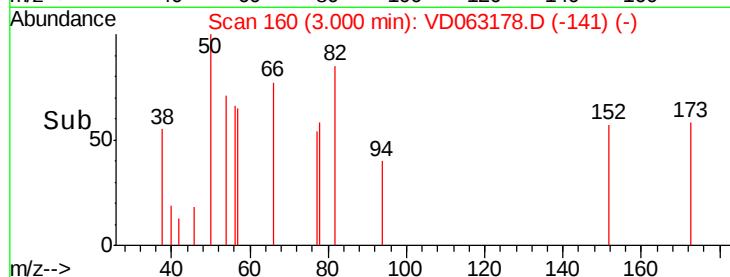
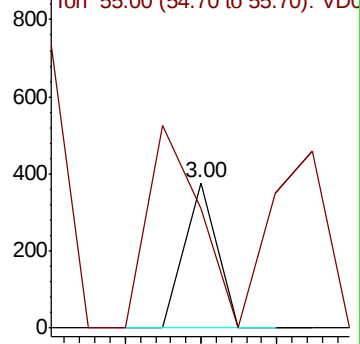
56 100

55 82.5 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#20

Methylene Chloride

Concen: 2.245 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Tgt Ion: 84 Resp: 22381

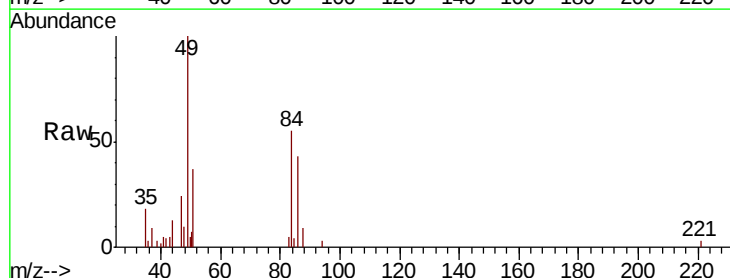
Ion Ratio Lower Upper

84 100

49 181.8 110.5 165.7#

51 66.7 34.6 51.8#

86 79.0 51.6 77.4#

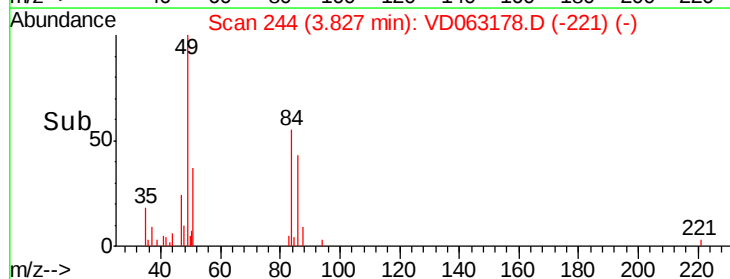
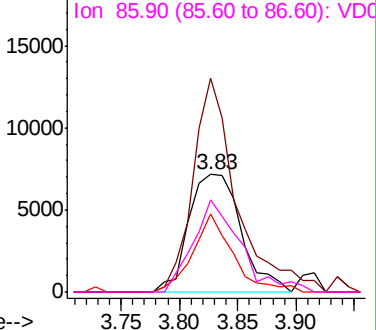


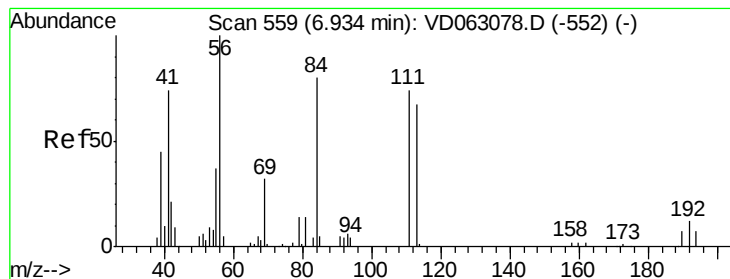
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 2.061 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

TP-4

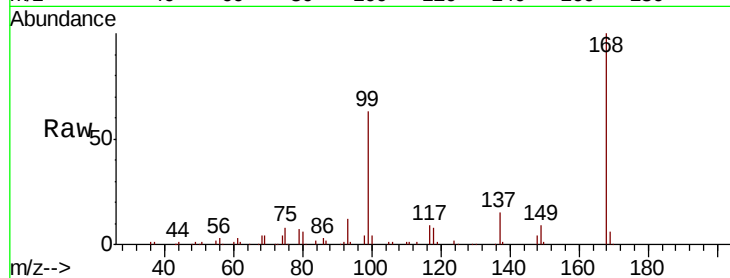
Tot Ion: 56 Resp: 21433

Ion Ratio Lower Upper

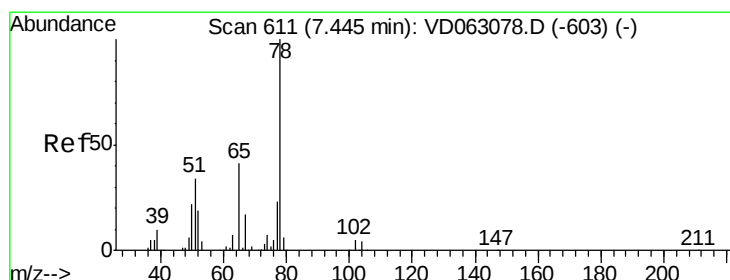
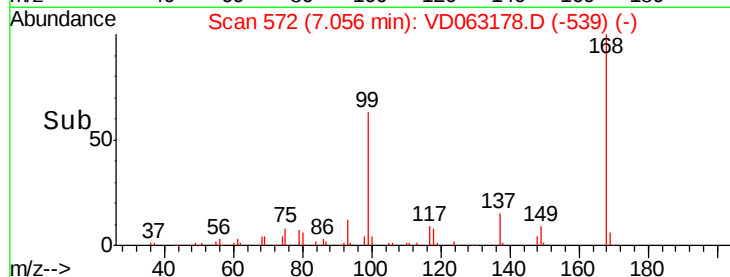
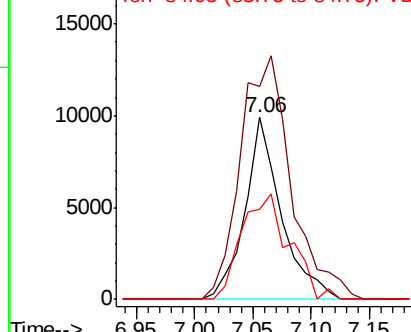
56 100

69 116.7 25.3 37.9#

84 49.5 64.2 96.4#



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: 56.027 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD063178.D

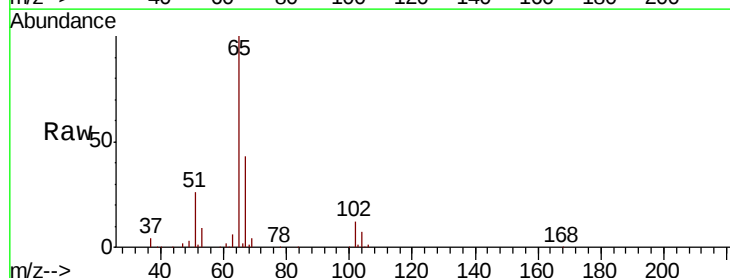
Acq: 22 Jul 2019 15:47

Tgt Ion: 65 Resp: 612178

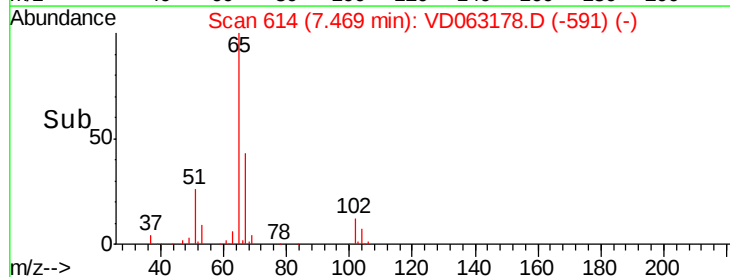
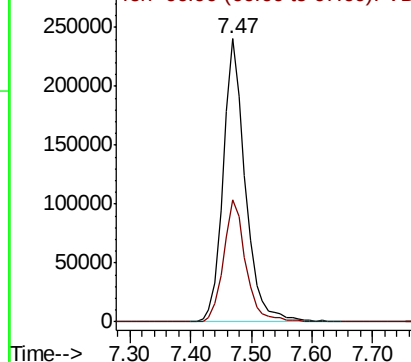
Ion Ratio Lower Upper

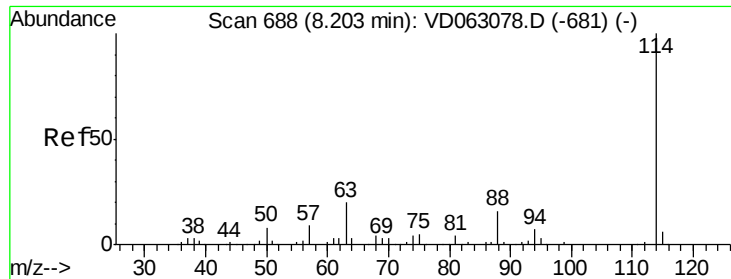
65 100

67 43.4 0.0 86.0



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

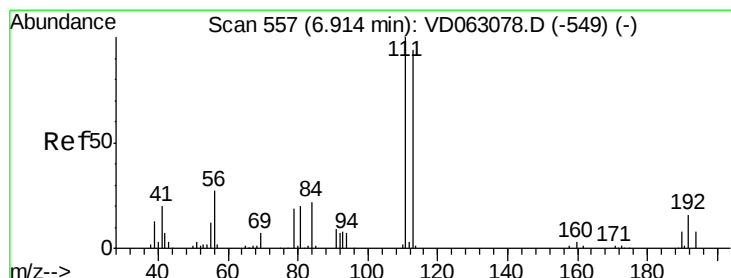
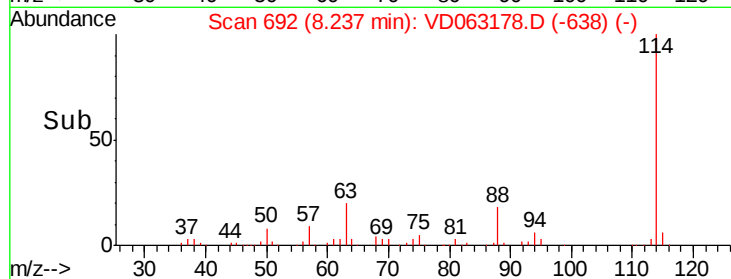
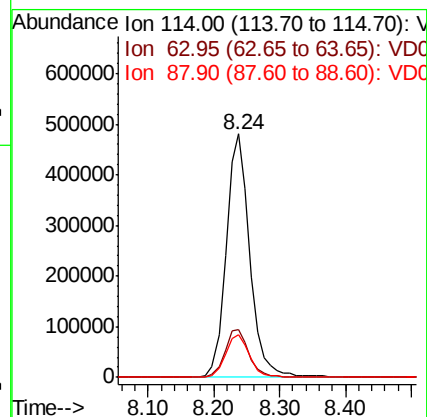
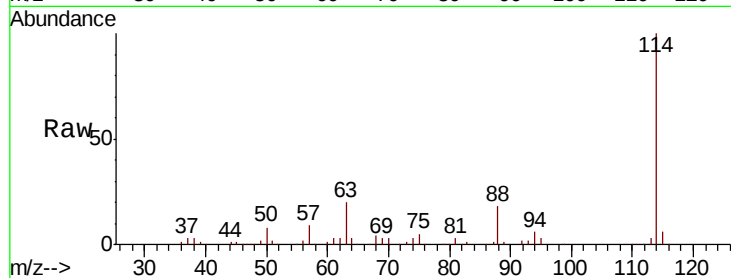




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.24 min Scan# 692
Delta R.T. 0.03 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

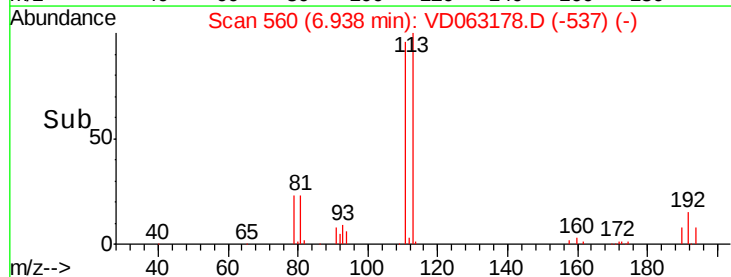
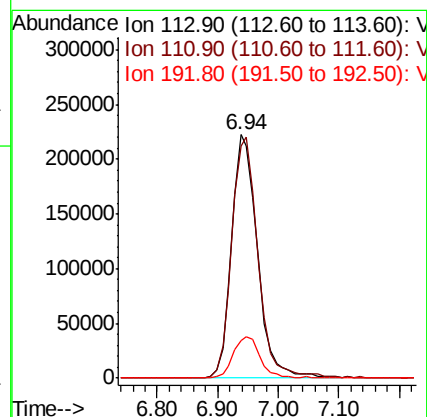
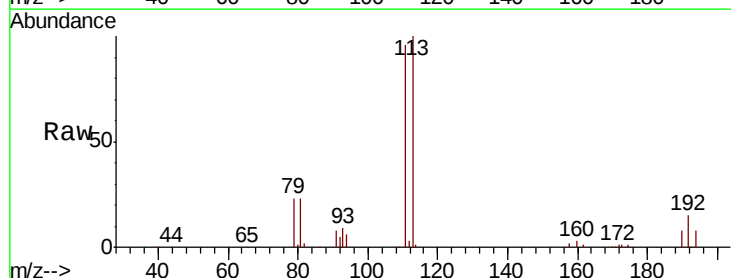
Instrument :
MSVOA_D
ClientSampleId :
TP-4

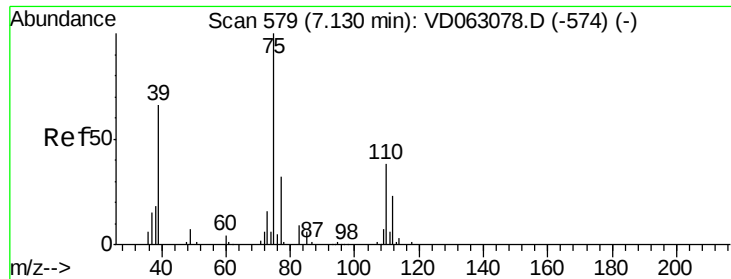
Tot Ion:114 Resp: 1197446
Ion Ratio Lower Upper
114 100
63 19.6 0.0 40.6
88 17.6 0.0 32.6



#35
Dibromofluoromethane
Concen: 55.389 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.02 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

Tgt Ion:113 Resp: 660614
Ion Ratio Lower Upper
113 100
111 95.6 84.8 127.2
192 15.4 13.4 20.0





#36

1,1-Dichloropropene

Concen: 5.070 ug/l

RT: 7.07 min Scan# 573

Delta R.T. -0.06 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Instrument :

MSVOA_D

ClientSampled :

TP-4

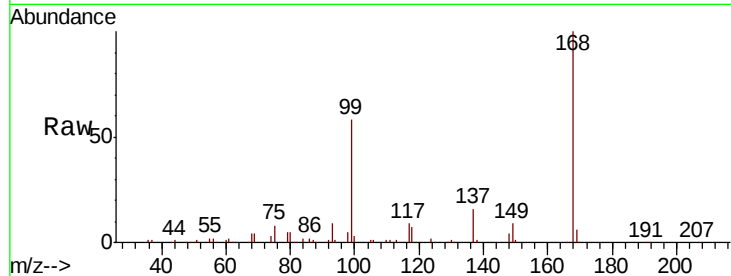
Tot Ion: 75 Resp: 68282

Ion Ratio Lower Upper

75 100

110 7.6 18.9 56.5#

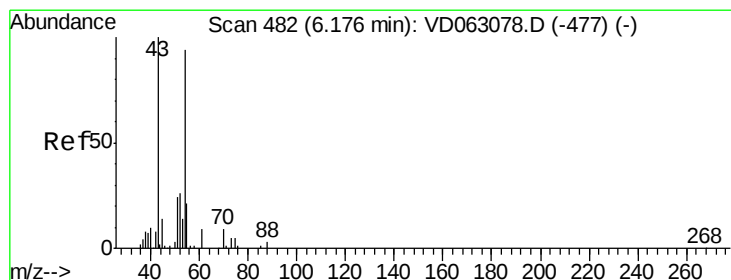
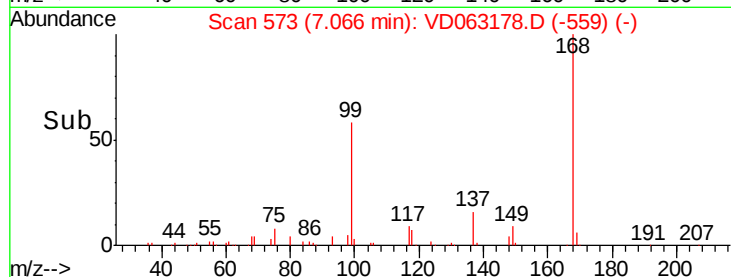
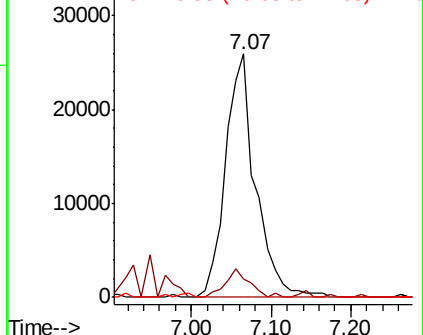
77 0.0 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 2.232 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

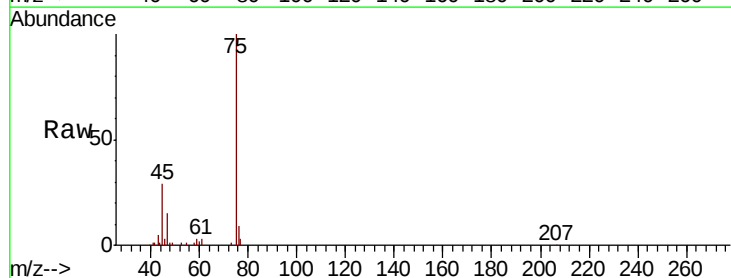
Tgt Ion: 43 Resp: 12862

Ion Ratio Lower Upper

43 100

61 70.7 10.6 16.0#

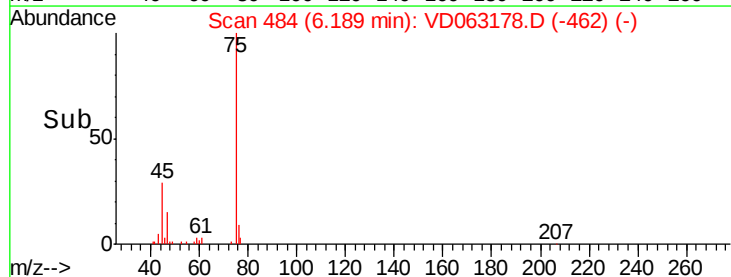
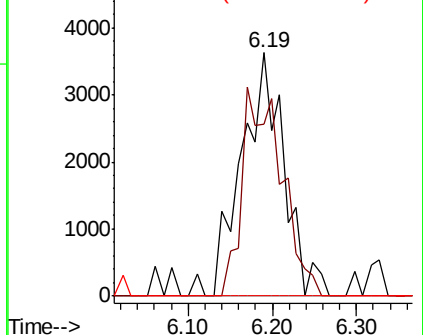
70 0.0 6.6 9.8#

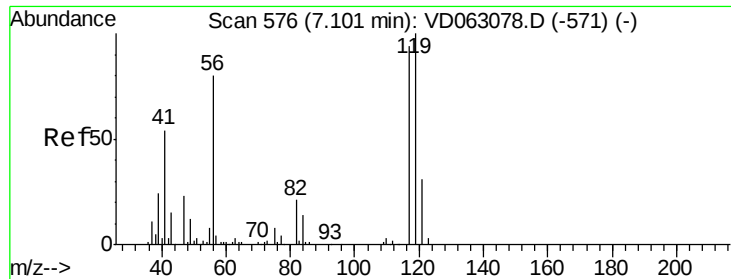


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

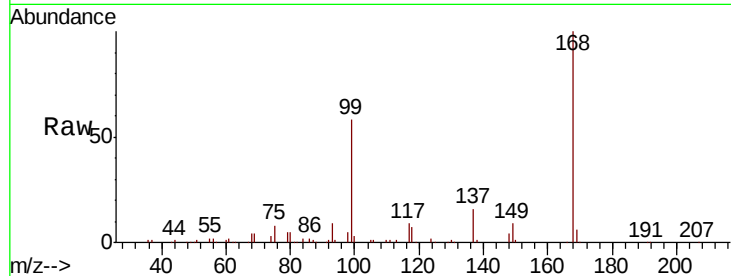




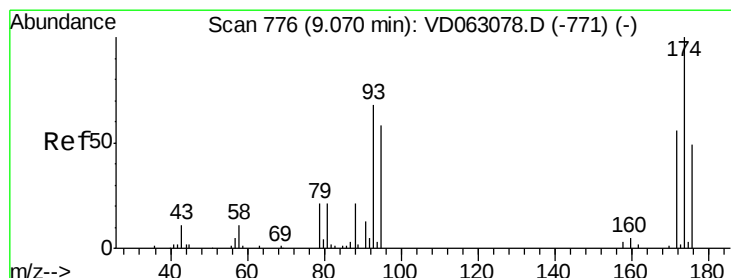
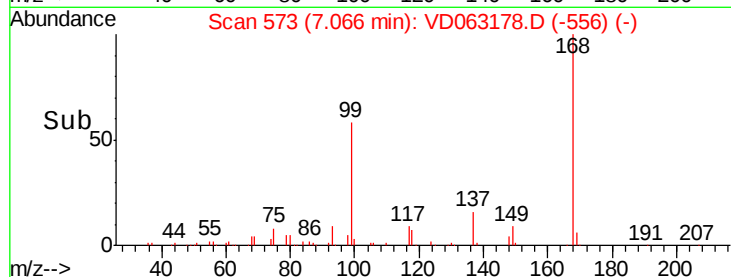
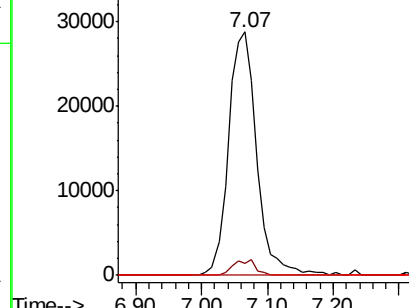
#38
Carbon Tetrachloride
Concen: 4.209 ug/l
RT: 7.07 min Scan# 573
Delta R.T. -0.04 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

Instrument :
MSVOA_D
ClientSampleId :
TP-4

Tot Ion:117 Resp: 86135
Ion Ratio Lower Upper
117 100
119 4.8 80.0 120.0#
121 0.0 25.0 37.4#

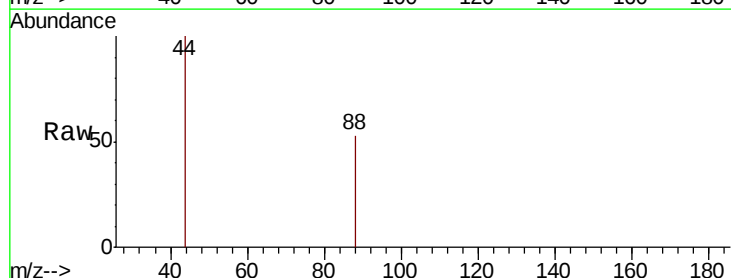


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

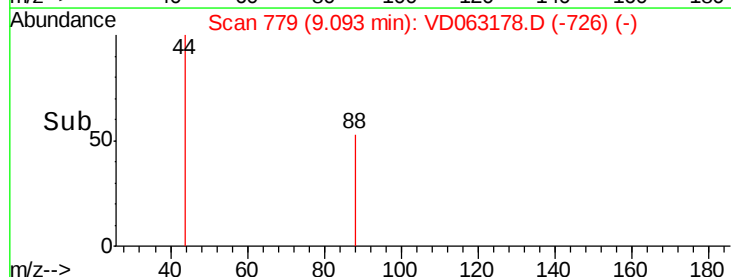
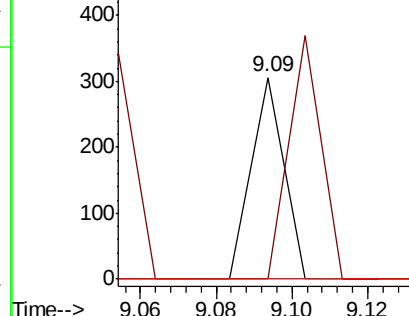


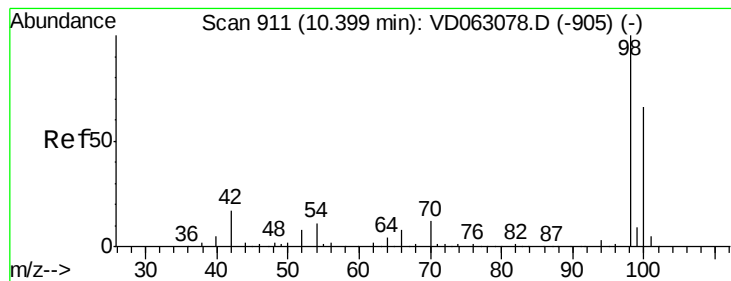
#49
1,4-Dioxane
Concen: 3.868 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.02 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

Tgt Ion: 88 Resp: 181
Ion Ratio Lower Upper
88 100
43 188.2 40.2 60.4#
58 0.0 41.6 62.4#



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 52.816 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

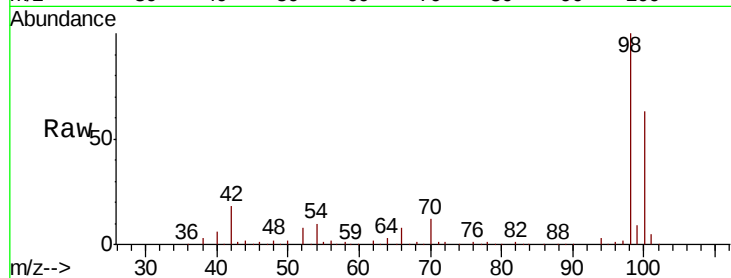
TP-4

Tot Ion: 98 Resp: 1353103

Ion Ratio Lower Upper

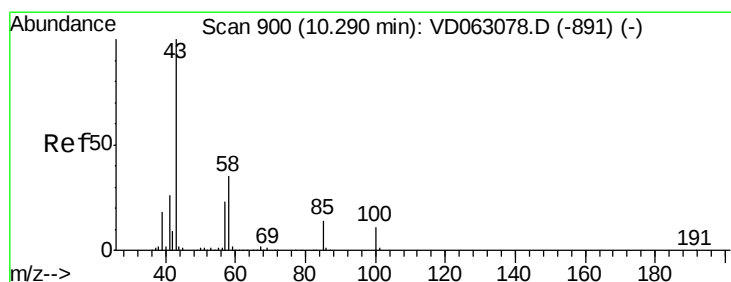
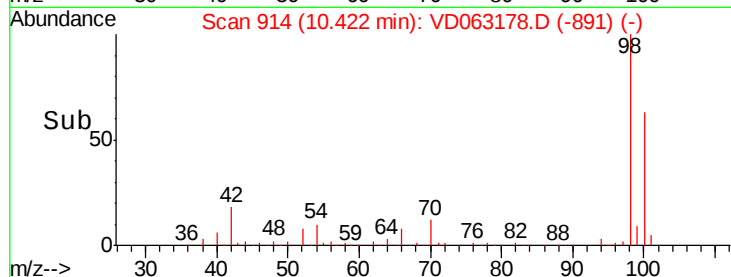
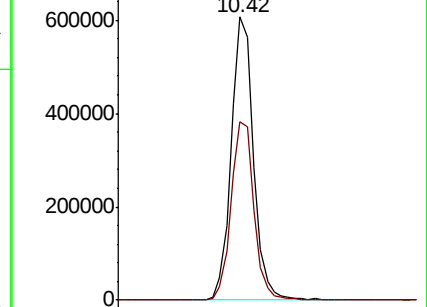
98 100

100 63.2 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.478 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.13 min

Lab File: VD063178.D

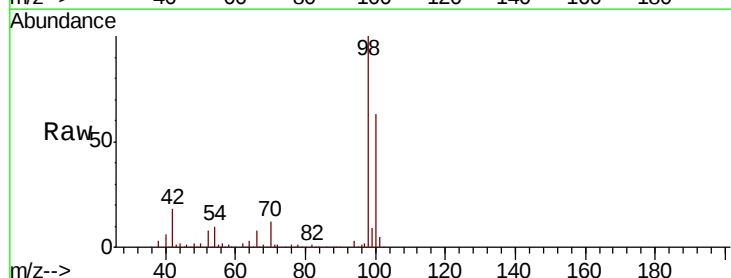
Acq: 22 Jul 2019 15:47

Tgt Ion: 43 Resp: 8096

Ion Ratio Lower Upper

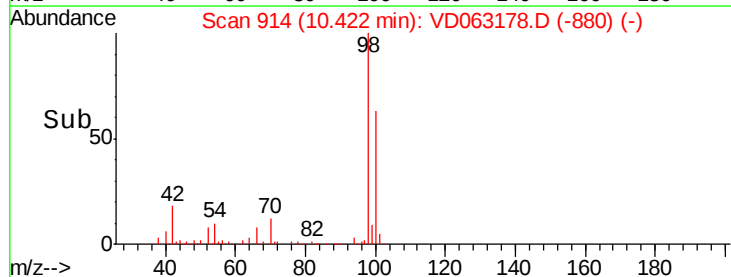
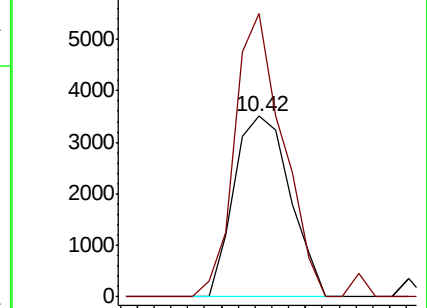
43 100

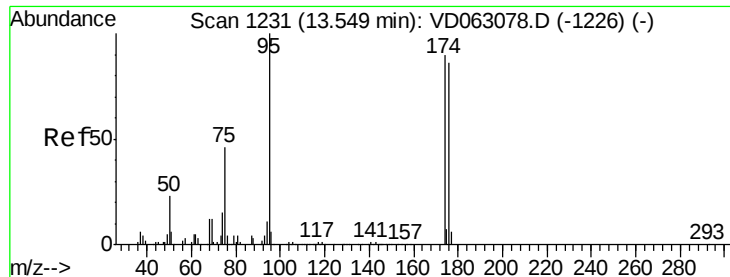
58 156.8 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

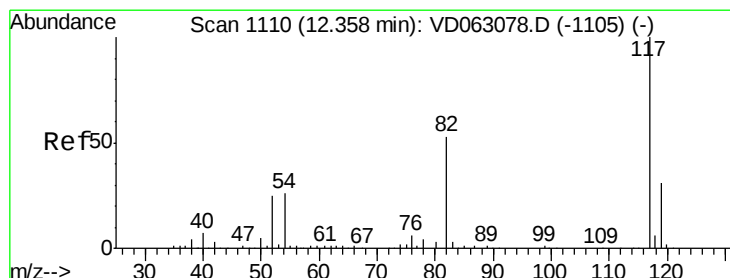
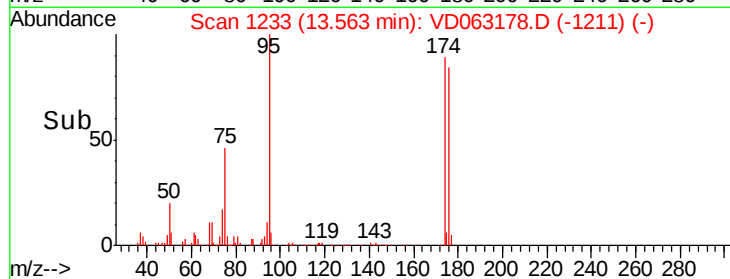
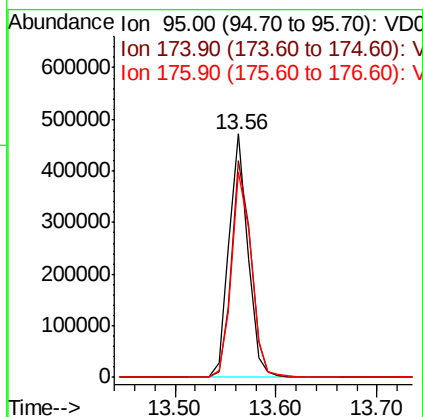
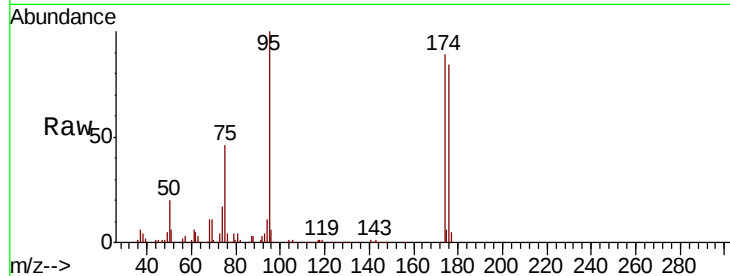




#62
4-Bromofluorobenzene
Concen: 51.530 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

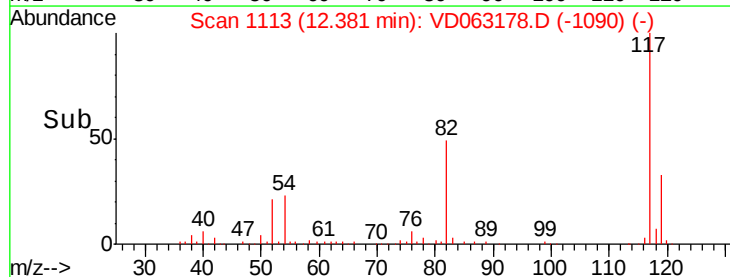
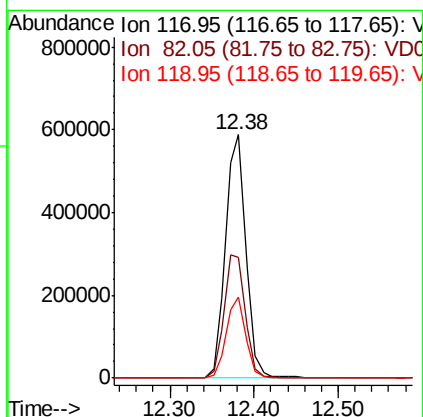
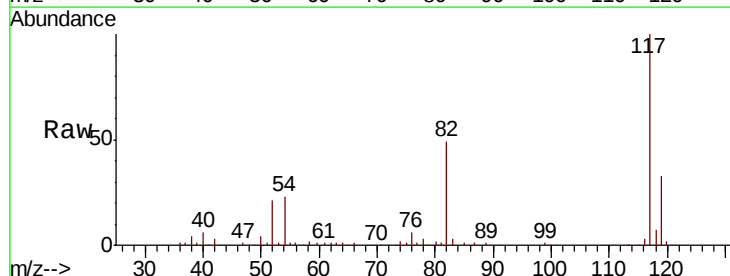
Instrument :
MSVOA_D
ClientSampleId :
TP-4

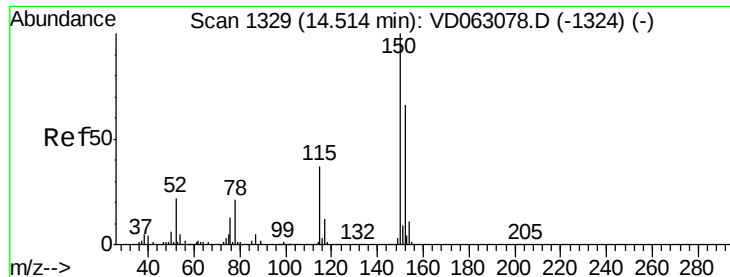
Tot Ion: 95 Resp: 610751
Ion Ratio Lower Upper
95 100
174 88.8 0.0 180.6
176 84.4 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

Tgt Ion: 117 Resp: 987957
Ion Ratio Lower Upper
117 100
82 49.3 42.3 63.5
119 33.3 25.2 37.8



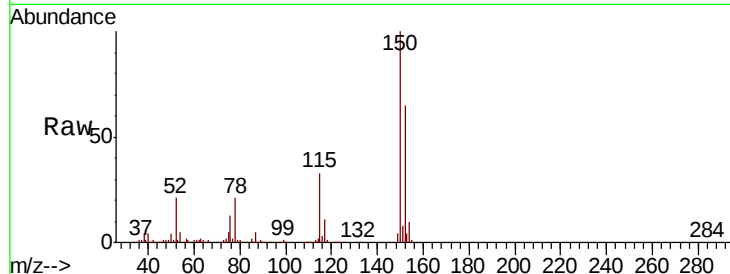


#72

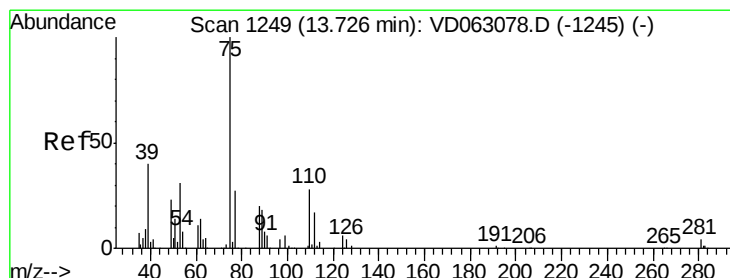
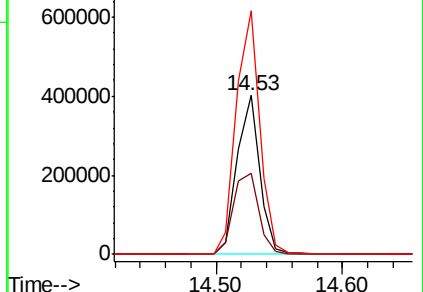
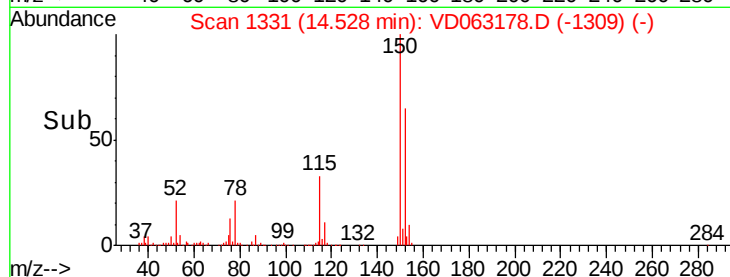
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

Instrument :
MSVOA_D
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
152	100		
115	50.9	28.9	86.8
150	153.1	0.0	313.8



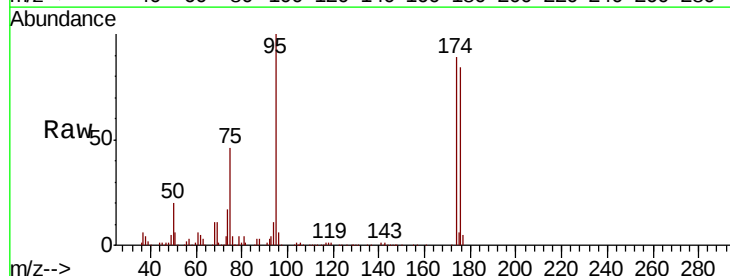
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



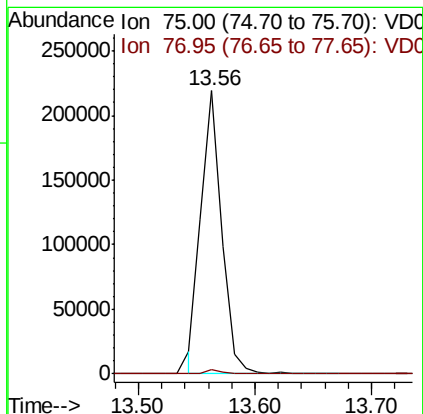
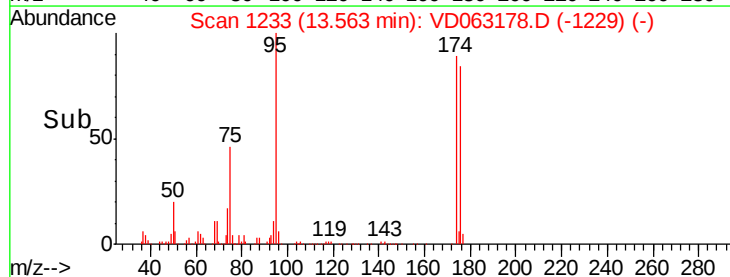
#76

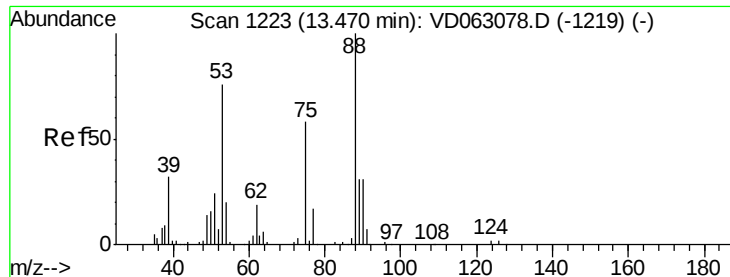
1,2,3-Trichloropropane
Concen: 35.368 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.16 min
Lab File: VD063178.D
Acq: 22 Jul 2019 15:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	16.3	48.8



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: 139.211 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD063178.D

Acq: 22 Jul 2019 15:47

Instrument :

MSVOA_D

ClientSampleId :

TP-4

Tot Ion: 75 Resp: 281762

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

