

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD061019\
 Data File : VD062660.D
 Acq On : 10 Jun 2019 18:16
 Operator : VA/AP
 Sample : K3274-04
 Misc : 5.18g/5ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-12 1.0-1.5 060719

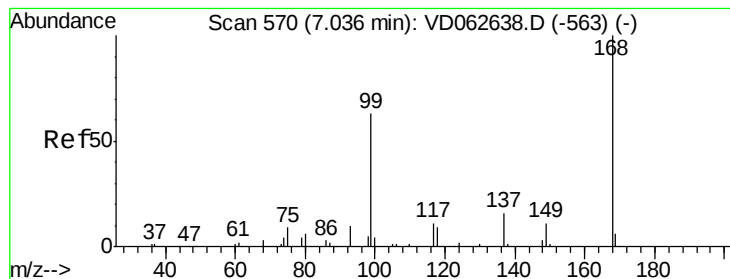
Quant Time: Jun 11 03:58:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	584961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	787246	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	629970	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	312935	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	321859	38.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.26%	
35) Dibromofluoromethane	6.93	113	348206	41.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.88%	
50) Toluene-d8	10.41	98	637896	36.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.04%	
62) 4-Bromofluorobenzene	13.55	95	288801	35.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	1171	Below Cal	#	42
5) Bromomethane	2.17	94	3088	1.025	ug/l #	11
10) Methyl Iodide	3.32	142	532	4.056	ug/l #	37
13) Acrolein	2.89	56	624	5.591	ug/l	96
16) Acetone	3.23	43	7259	4.696	ug/l #	66
31) Cyclohexane	7.05	56	13908	2.088	ug/l #	22
36) 1,1-Dichloropropene	7.05	75	47814	5.307	ug/l #	53
37) Ethyl Acetate	6.16	43	1099	1.480	ug/l #	74
38) Carbon Tetrachloride	7.05	117	59436	4.174	ug/l #	16
58) 2-Chloroethyl Vinyl ether	9.85	63	13364	6.164	ug/l	90
74) N-amyl acetate	13.38	43	8051	1.351	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	132262	100.817	ug/l #	1
82) 4-Chlorotoluene	13.98	91	57574	3.045	ug/l #	43
93) 1,2,4-Trichlorobenzene	15.94	180	1790	3.775	ug/l #	75
95) Naphthalene	16.12	128	3561	3.741	ug/l #	84

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

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MSVOA_D

ClientSampleId :

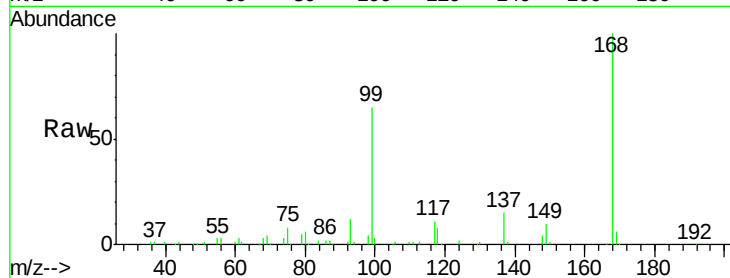
SB-12 1.0-1.5 060719

Tgt Ion:168 Resp: 584961

Ion Ratio Lower Upper

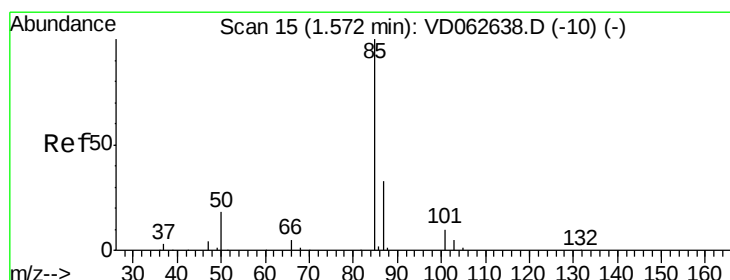
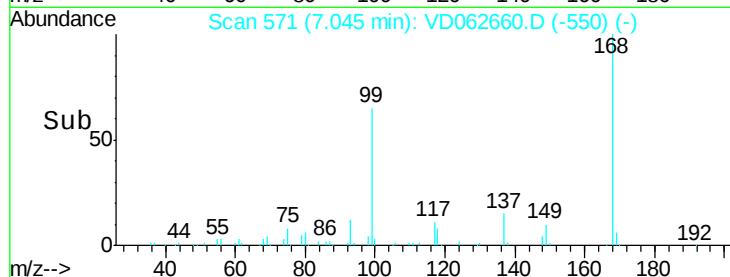
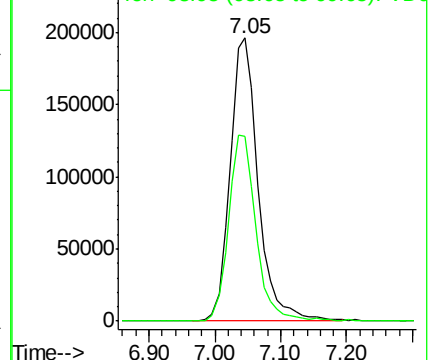
168 100

99 65.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062660.D

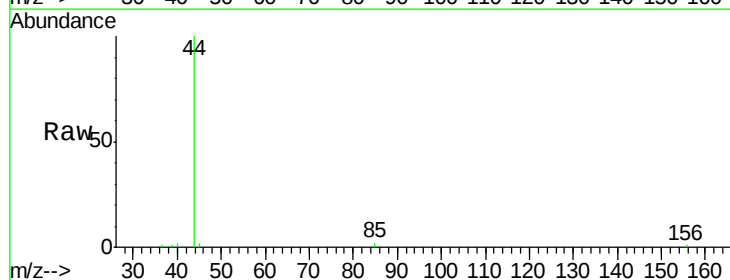
Acq: 10 Jun 2019 18:16

Tgt Ion: 85 Resp: 1171

Ion Ratio Lower Upper

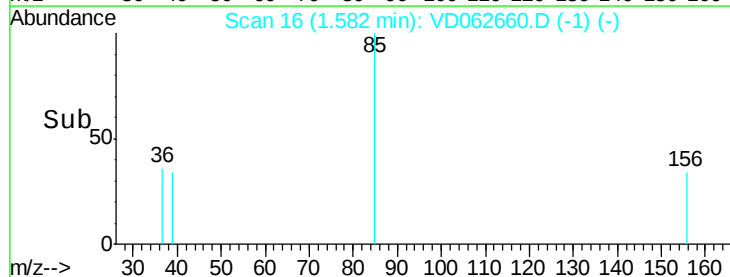
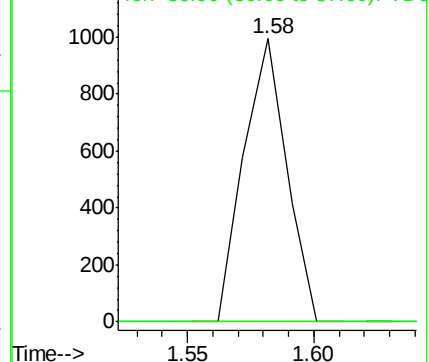
85 100

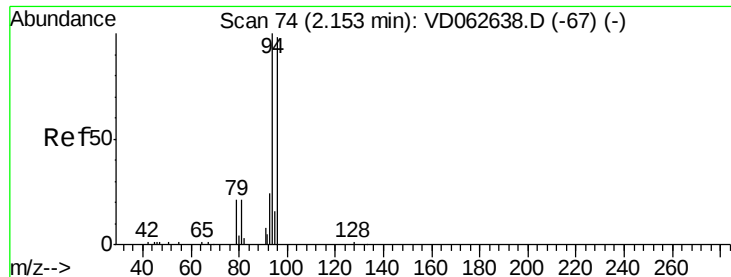
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: 1.025 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

SB-12 1.0-1.5 060719

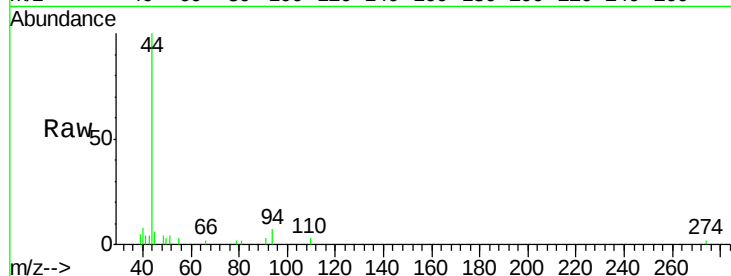
Tgt Ion: 94 Resp: 3088

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#

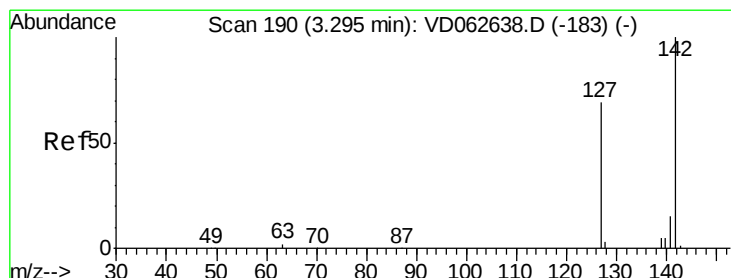
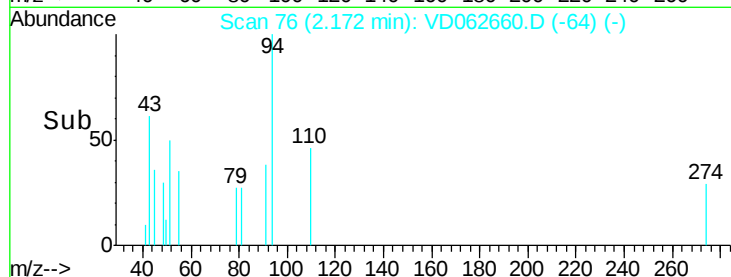
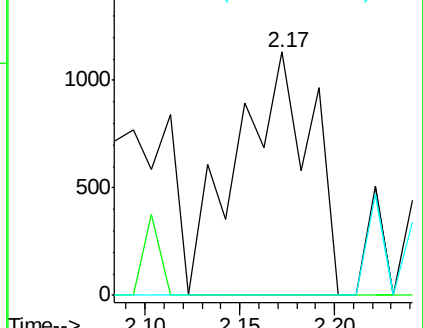
93 0.0 19.6 29.4#



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



#10

Methyl Iodide

Concen: 4.056 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.03 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

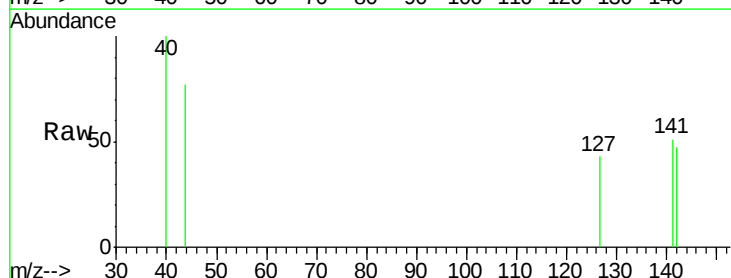
Tgt Ion: 142 Resp: 532

Ion Ratio Lower Upper

142 100

127 91.5 55.2 82.8#

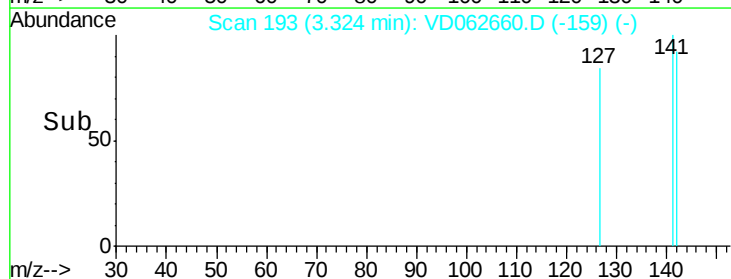
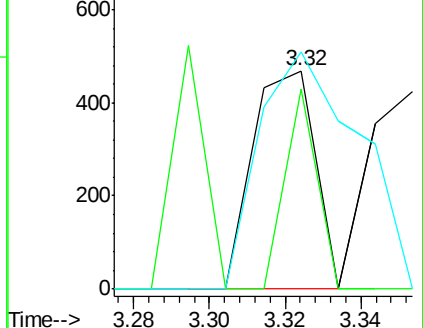
141 108.7 12.1 18.1#

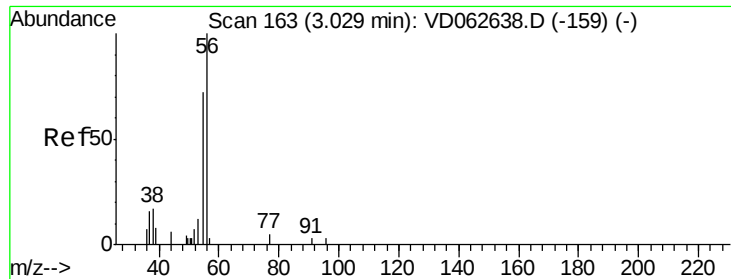


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#13

Acrolein

Concen: 5.591 ug/l

RT: 2.89 min Scan# 149

Delta R.T. -0.14 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

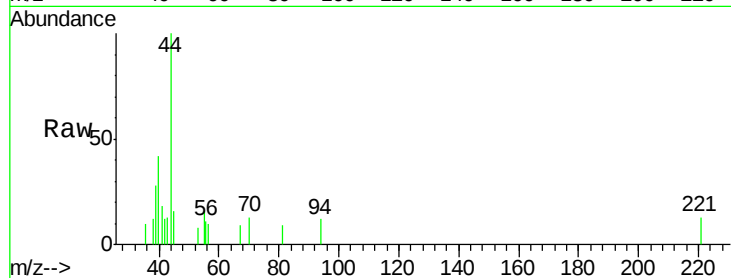
SB-12 1.0-1.5 060719

Tgt Ion: 56 Resp: 624

Ion Ratio Lower Upper

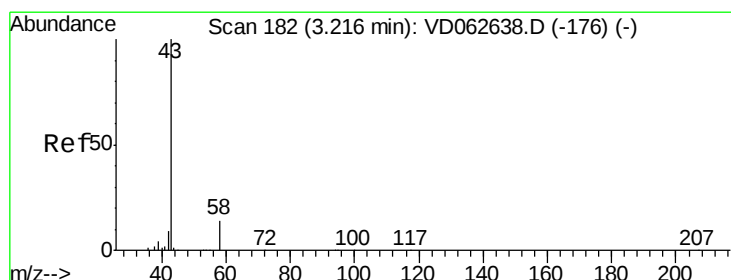
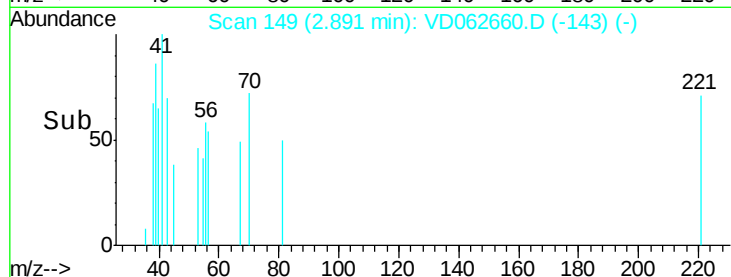
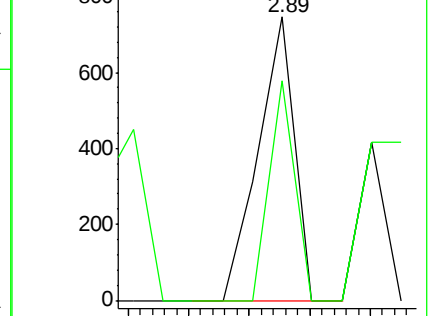
56 100

55 77.3 59.4 89.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 4.696 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062660.D

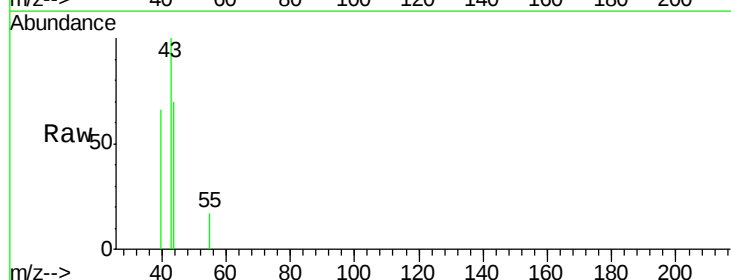
Acq: 10 Jun 2019 18:16

Tgt Ion: 43 Resp: 7259

Ion Ratio Lower Upper

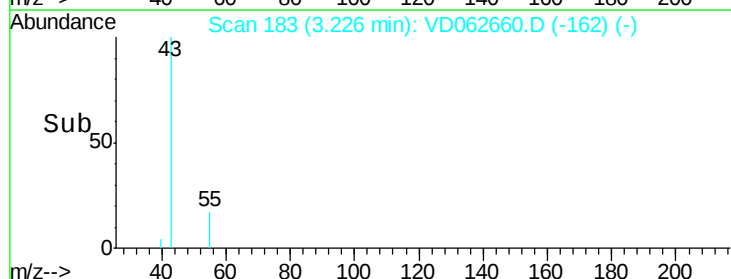
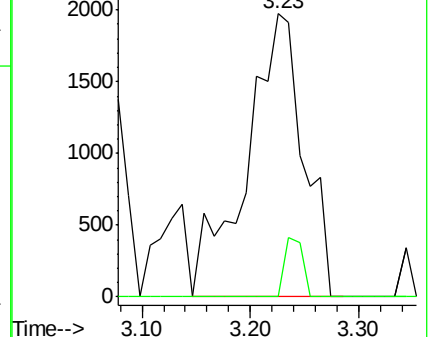
43 100

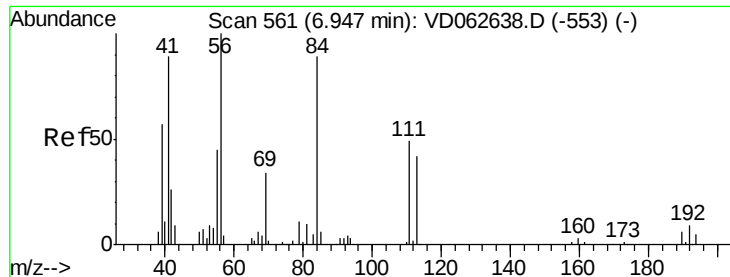
58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

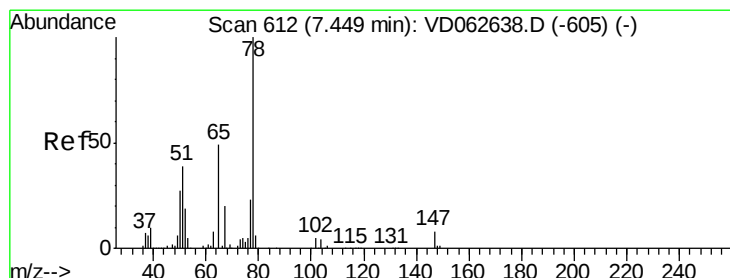
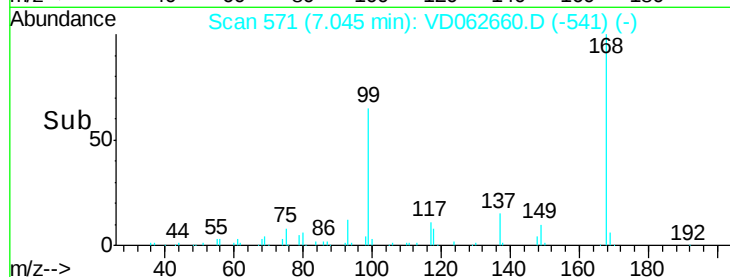
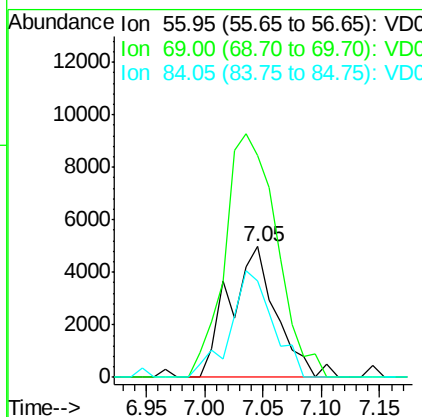
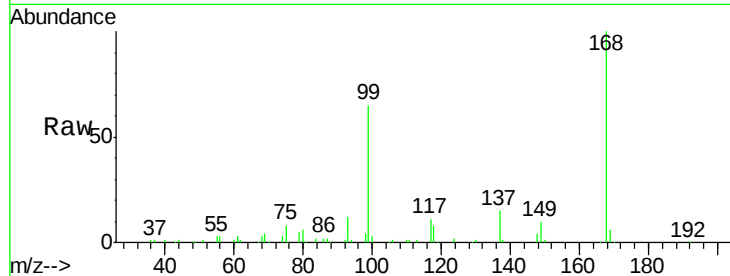




#31
Cyclohexane
Concen: 2.088 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.10 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

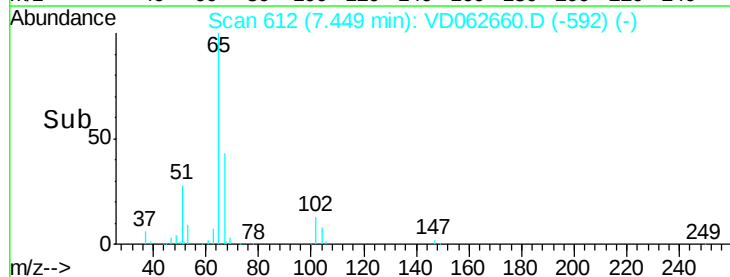
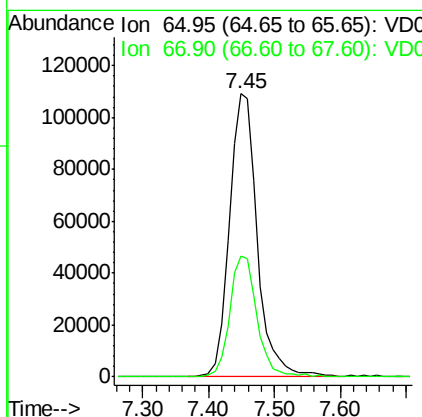
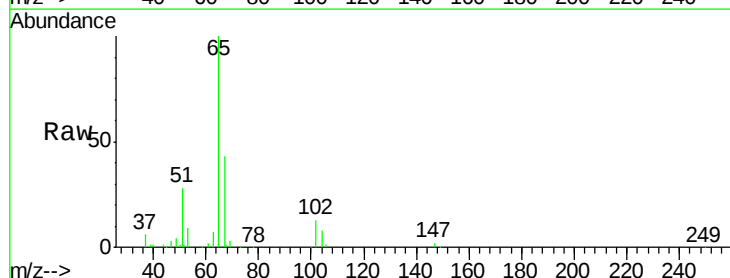
Instrument :
MSVOA_D
ClientSampleId :
SB-12 1.0-1.5 060719

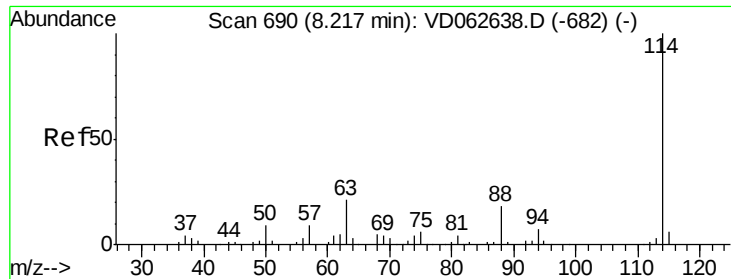
Tgt Ion: 56 Resp: 13908
Ion Ratio Lower Upper
56 100
69 170.2 26.8 40.2#
84 73.5 73.9 110.9#



#33
1,2-Dichloroethane-d4
Concen: 38.131 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.00 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

Tgt Ion: 65 Resp: 321859
Ion Ratio Lower Upper
65 100
67 42.8 0.0 81.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

SB-12 1.0-1.5 060719

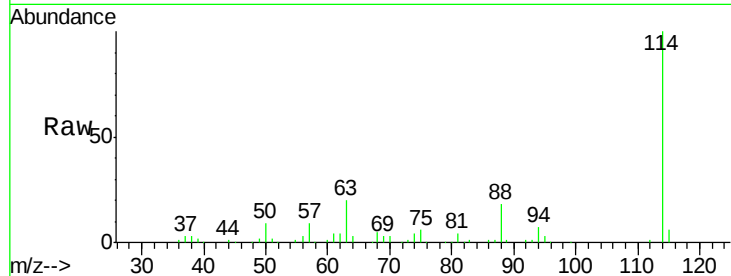
Tgt Ion:114 Resp: 787246

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.4

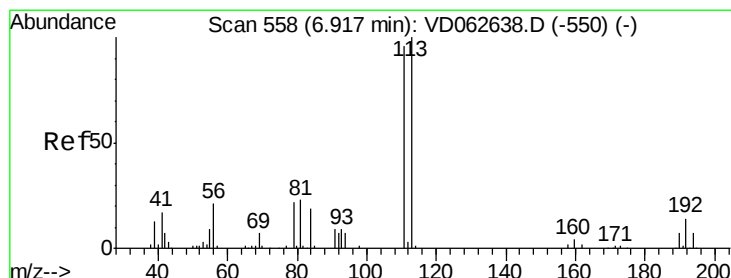
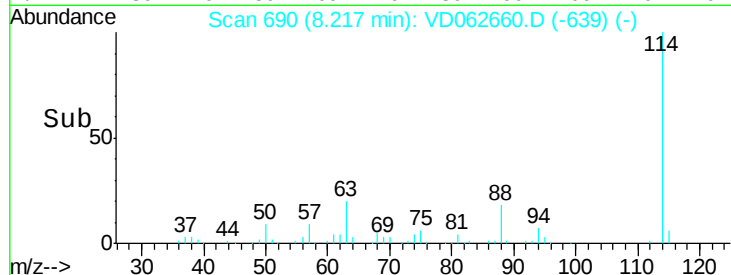
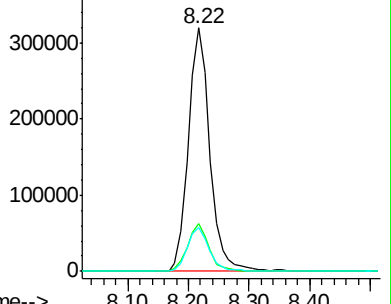
88 18.0 0.0 36.8



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: 41.940 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

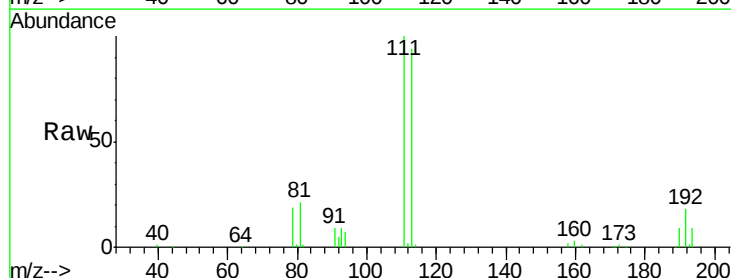
Tgt Ion:113 Resp: 348206

Ion Ratio Lower Upper

113 100

111 106.4 76.4 114.6

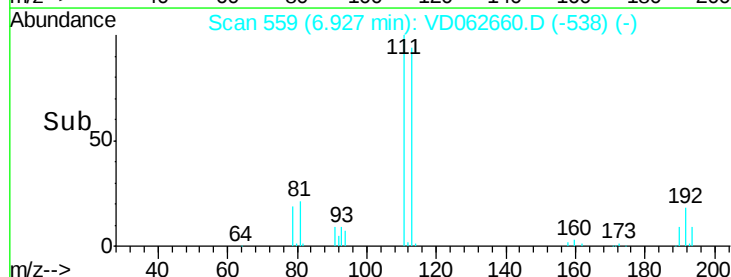
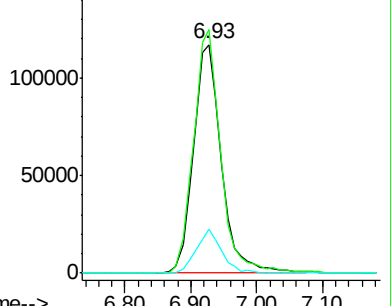
192 19.0 11.4 17.0#

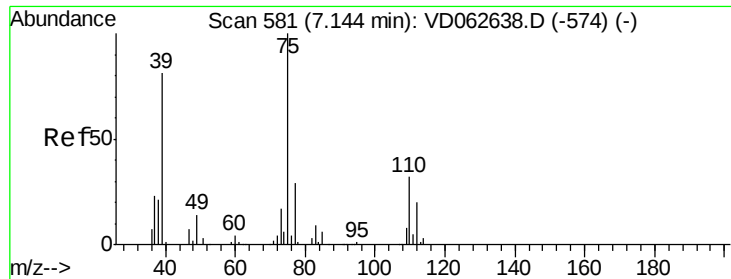


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.307 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

SB-12 1.0-1.5 060719

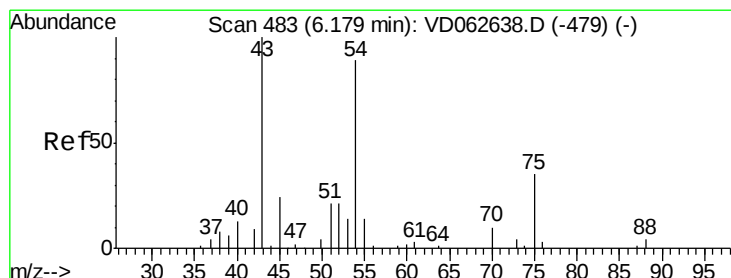
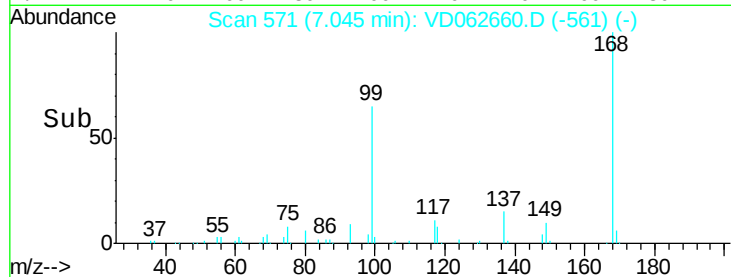
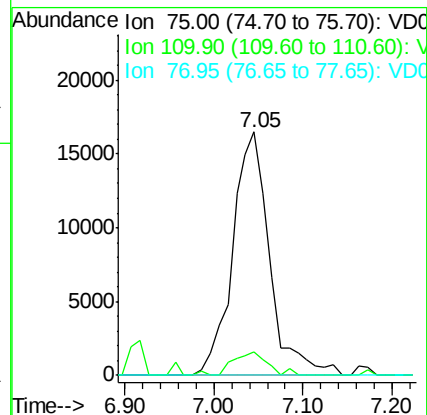
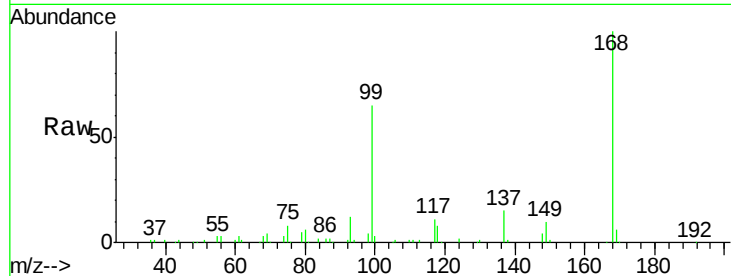
Tgt Ion: 75 Resp: 47814

Ion Ratio Lower Upper

75 100

110 9.9 15.9 47.7#

77 0.0 23.3 34.9#



#37

Ethyl Acetate

Concen: 1.480 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.02 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

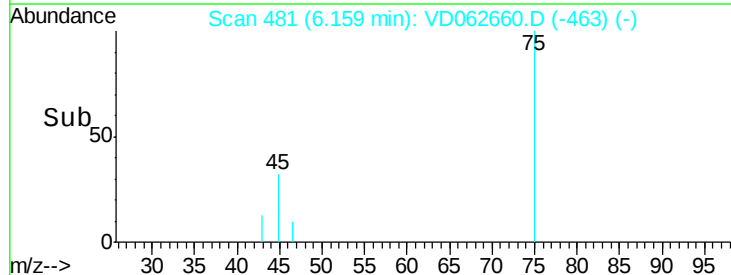
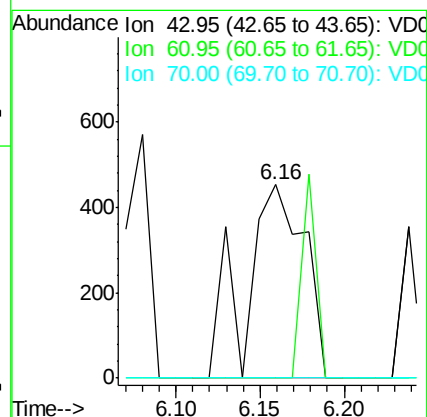
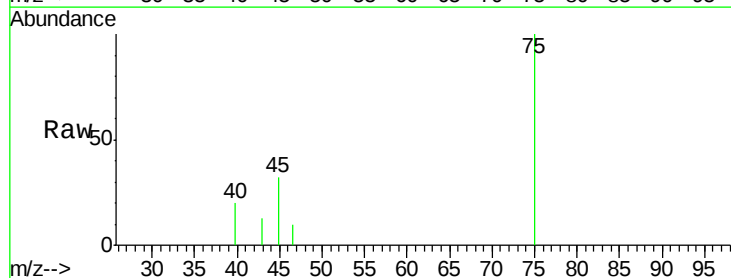
Tgt Ion: 43 Resp: 1099

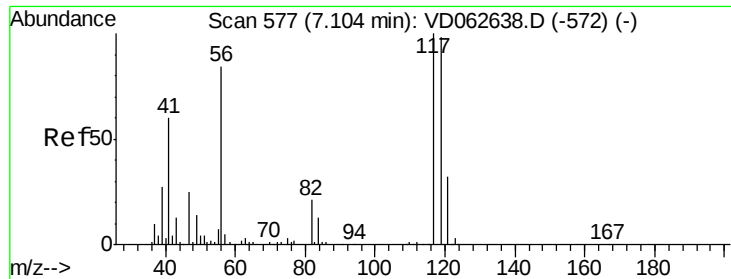
Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

70 0.0 6.5 9.7#

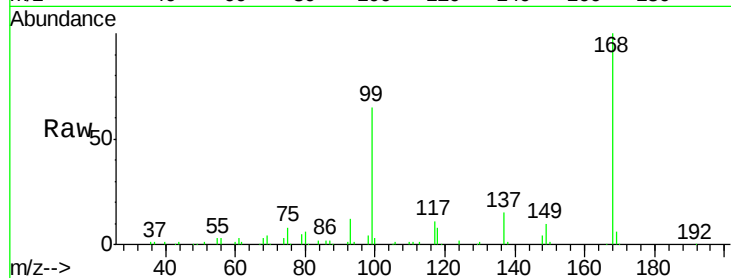




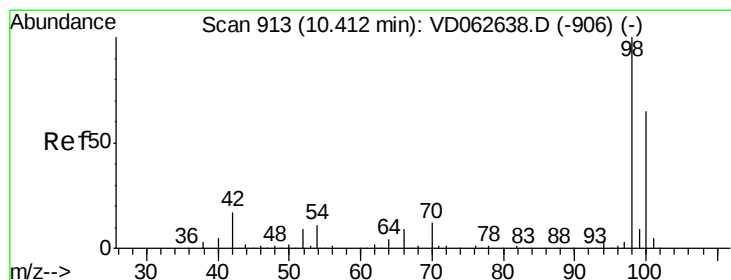
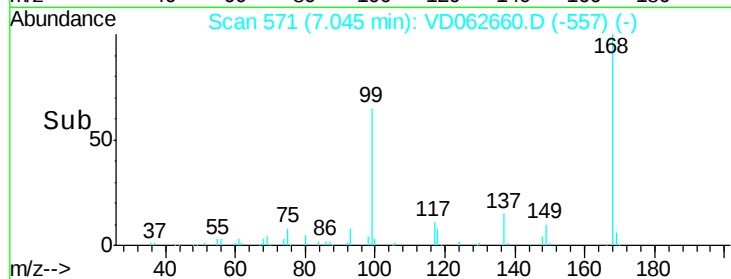
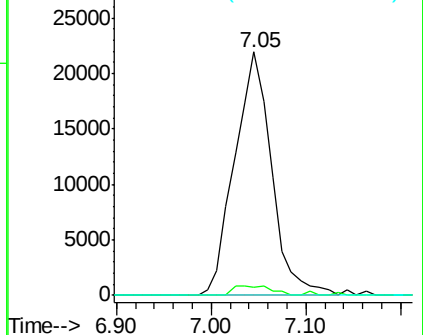
#38
Carbon Tetrachloride
Concen: 4.174 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

Instrument :
MSVOA_D
ClientSampleId :
SB-12 1.0-1.5 060719

Tgt Ion: 117 Resp: 59436
Ion Ratio Lower Upper
117 100
119 3.5 73.5 110.3#
121 0.0 24.2 36.4#

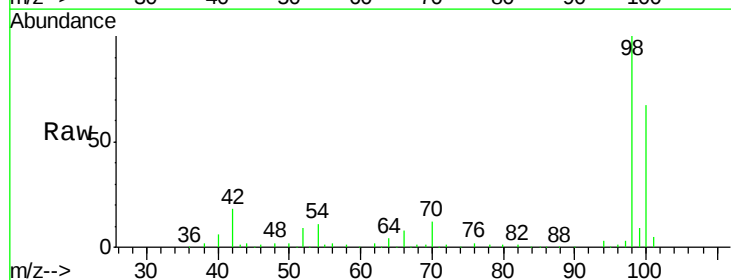


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

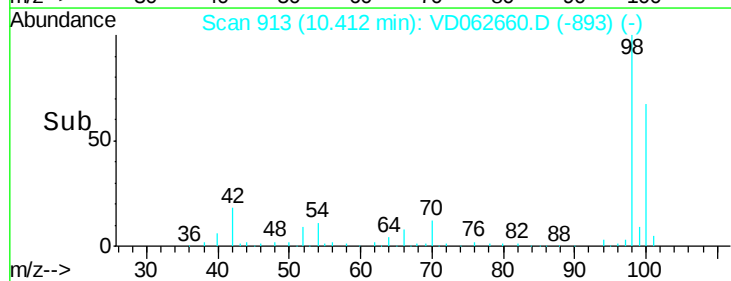
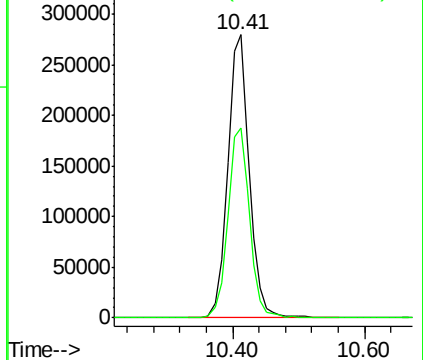


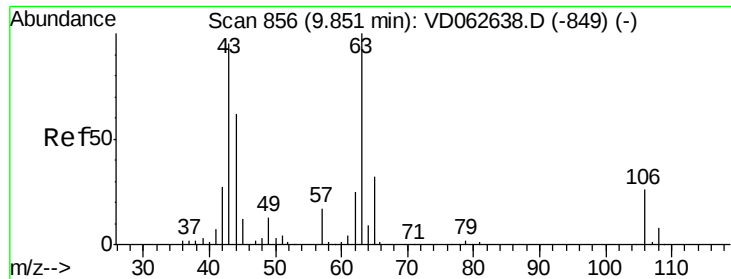
#50
Toluene-d8
Concen: 36.523 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

Tgt Ion: 98 Resp: 637896
Ion Ratio Lower Upper
98 100
100 67.1 52.1 78.1



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

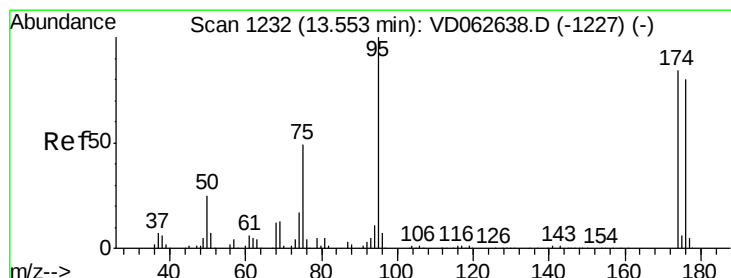
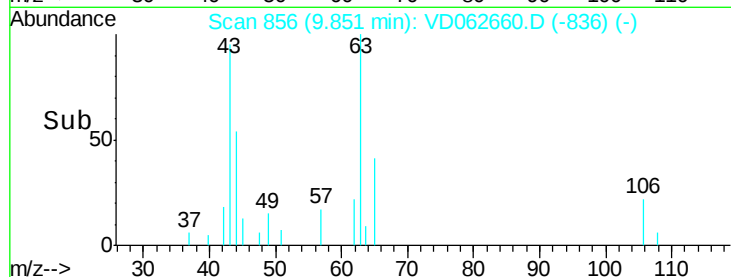
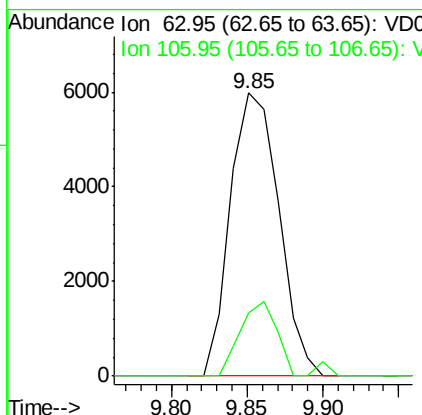
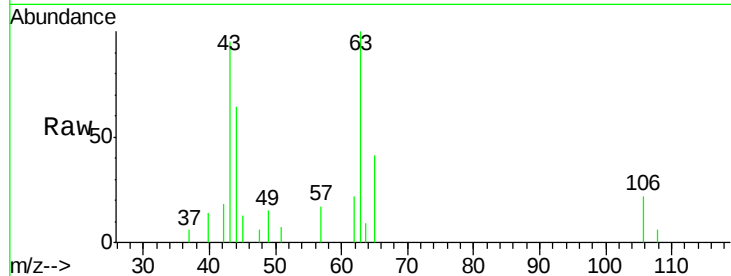




#58
2-Chloroethyl Vinyl ether
Concen: 6.164 ug/l
RT: 9.85 min Scan# 856
Delta R.T. -0.00 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

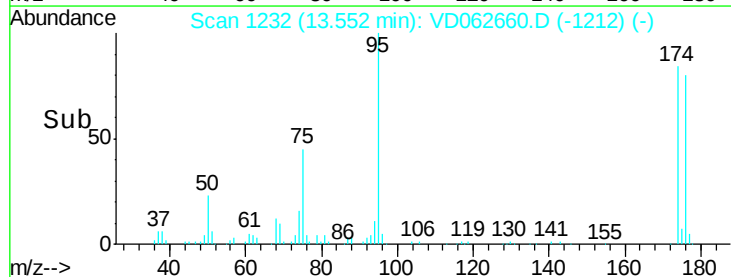
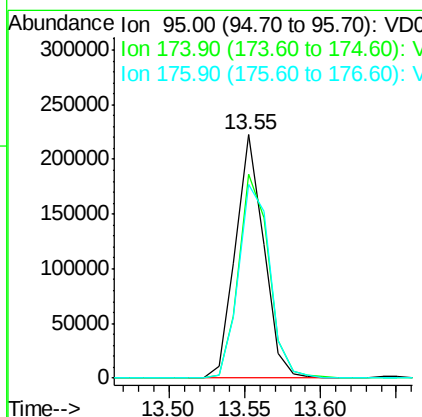
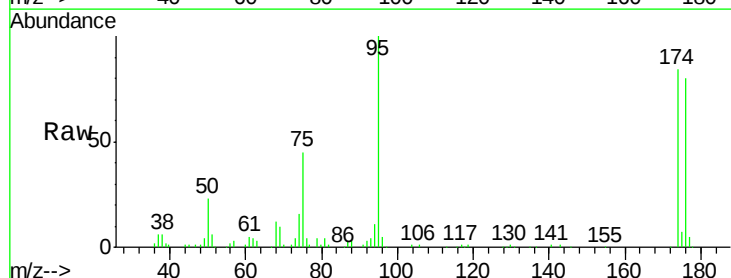
Instrument :
MSVOA_D
ClientSampleId :
SB-12 1.0-1.5 060719

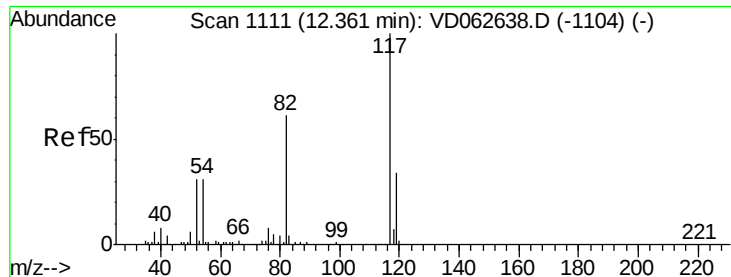
Tgt Ion: 63 Resp: 13364
Ion Ratio Lower Upper
63 100
106 20.7 20.5 30.7



#62
4-Bromofluorobenzene
Concen: 35.443 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

Tgt Ion: 95 Resp: 288801
Ion Ratio Lower Upper
95 100
174 83.9 0.0 167.0
176 79.5 0.0 159.2

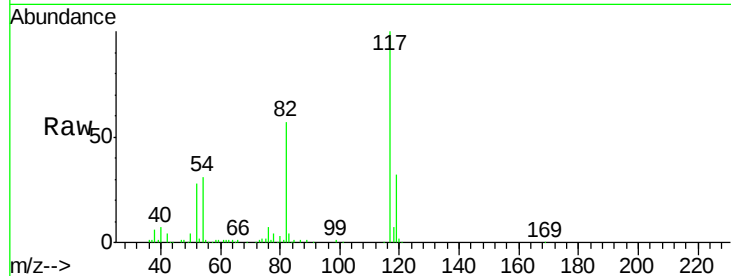




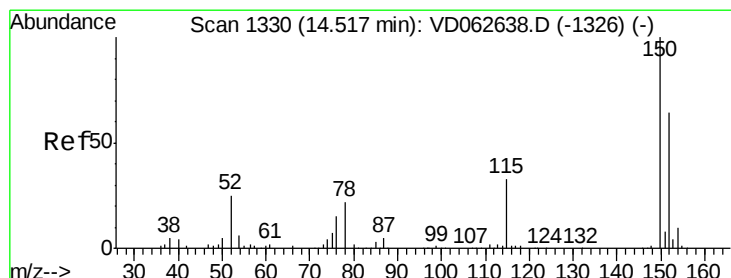
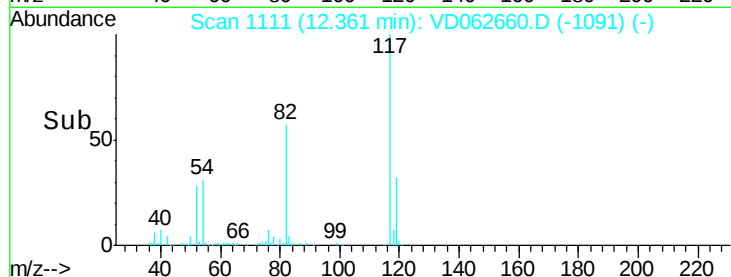
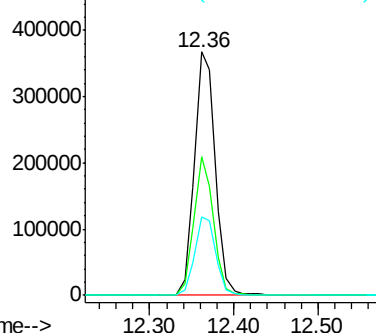
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

Instrument :
MSVOA_D
ClientSampleId :
SB-12 1.0-1.5 060719

Tgt Ion:117 Resp: 629970
Ion Ratio Lower Upper
117 100
82 56.8 48.7 73.1
119 32.0 27.0 40.6

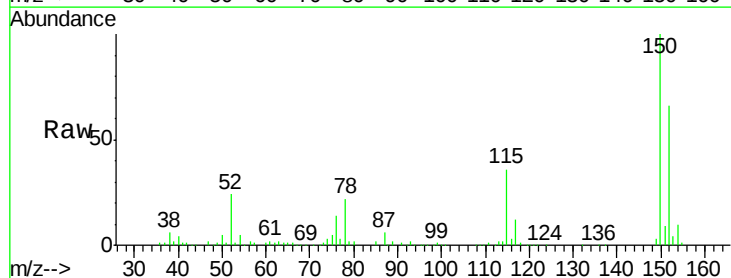


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

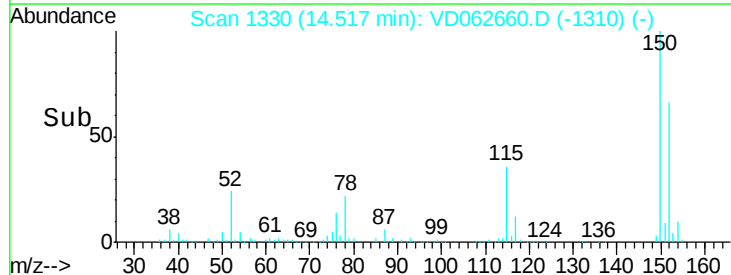
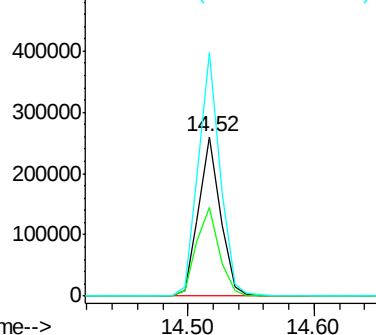


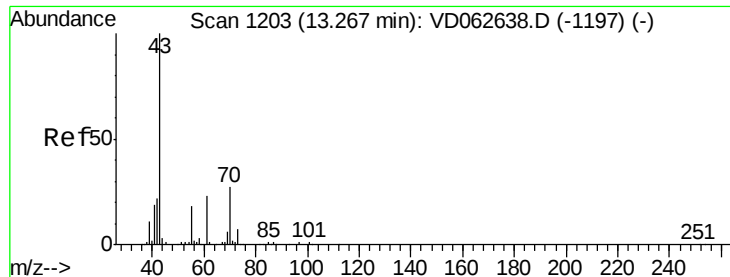
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062660.D
Acq: 10 Jun 2019 18:16

Tgt Ion:152 Resp: 312935
Ion Ratio Lower Upper
152 100
115 55.3 30.1 90.5
150 152.4 0.0 314.0



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





#74

N-amyI acetate

Concen: 1.351 ug/l

RT: 13.38 min Scan# 1215

Delta R.T. 0.12 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

SB-12 1.0-1.5 060719

Tgt Ion: 43 Resp: 8051

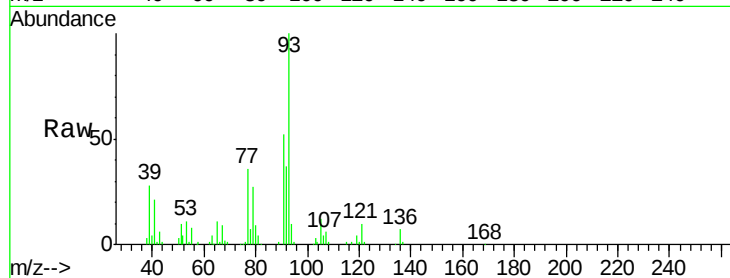
Ion Ratio Lower Upper

43 100

70 0.0 21.8 32.8#

55 129.2 14.6 21.8#

61 0.0 18.4 27.6#

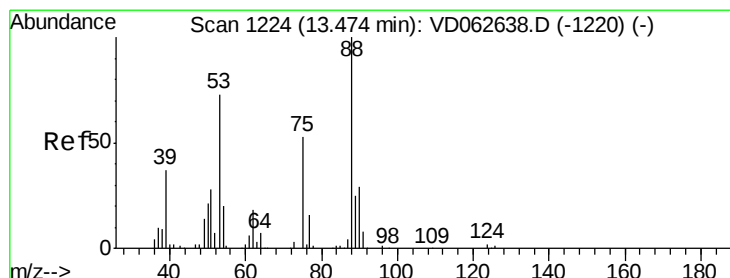
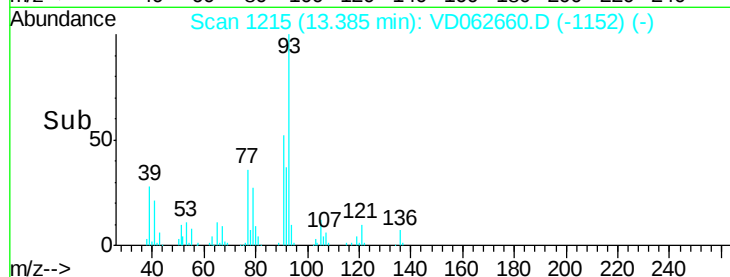
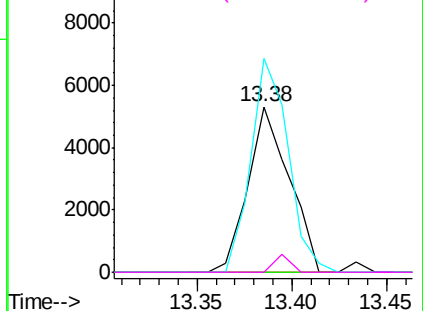


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 100.817 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

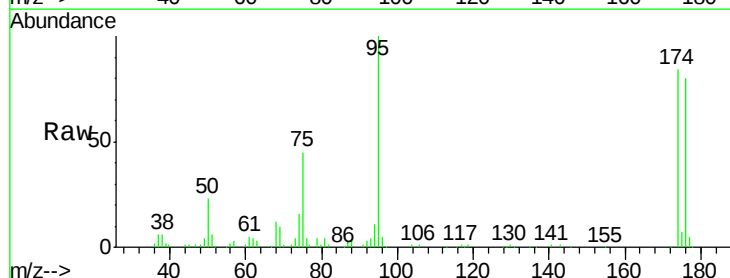
Tgt Ion: 75 Resp: 132262

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

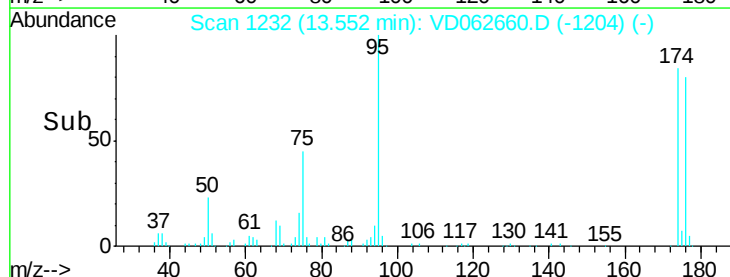
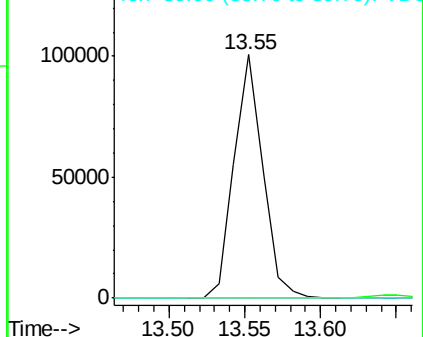
89 0.0 37.0 55.6#

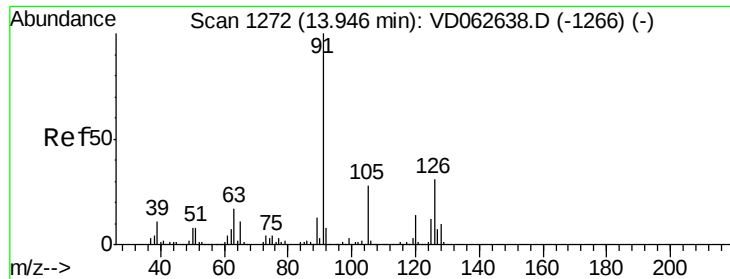


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 3.045 ug/l

RT: 13.98 min Scan# 1275

Delta R.T. 0.03 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

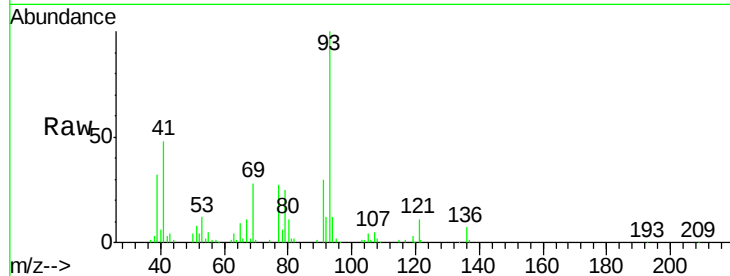
SB-12 1.0-1.5 060719

Tgt Ion: 91 Resp: 57574

Ion Ratio Lower Upper

91 100

126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

13.98

40000

30000

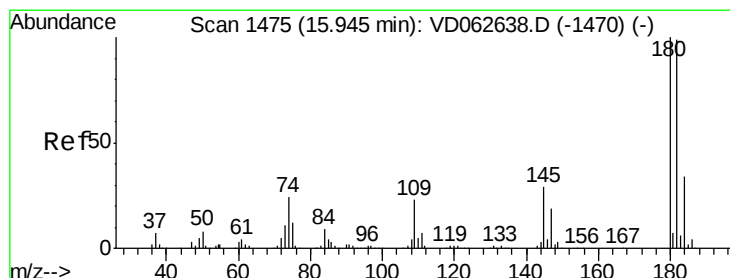
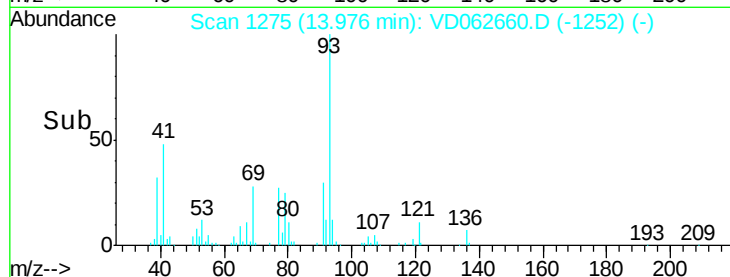
20000

10000

0

Time-->

13.90 14.00



#93

1,2,4-Trichlorobenzene

Concen: 3.775 ug/l

RT: 15.94 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD062660.D

Acq: 10 Jun 2019 18:16

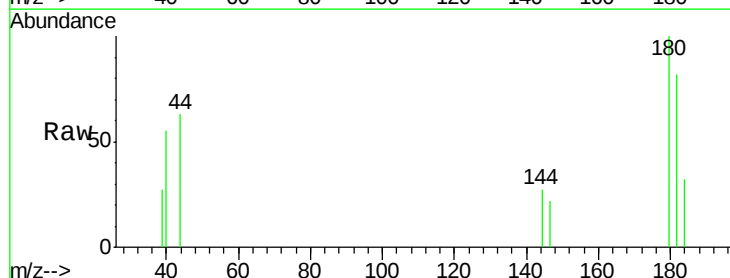
Tgt Ion: 180 Resp: 1790

Ion Ratio Lower Upper

180 100

182 82.1 49.4 148.2

145 0.0 14.5 43.6#



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

2000

1500

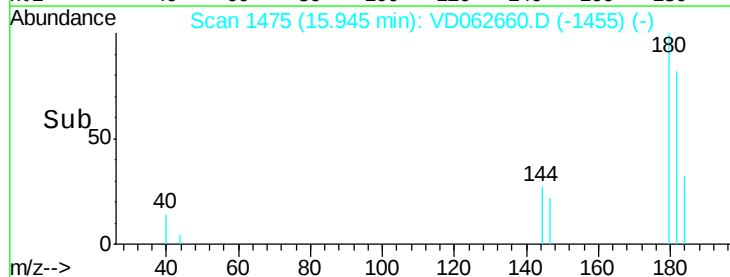
1000

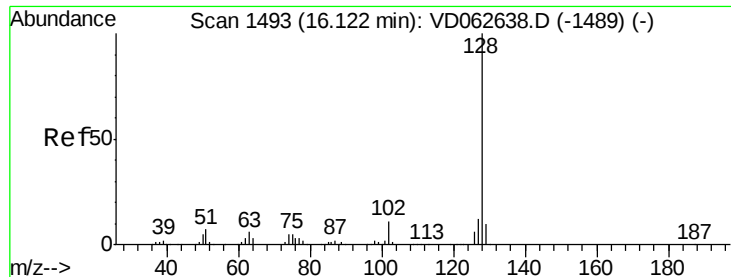
500

0

Time-->

15.90 15.95

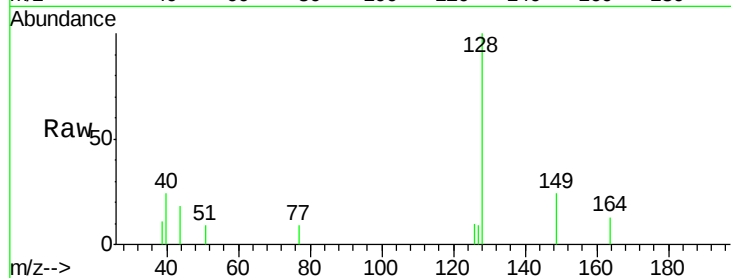




#95
 Naphthalene
 Concen: 3.741 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062660.D
 Acq: 10 Jun 2019 18:16

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-12 1.0-1.5 060719

Tgt Ion:128 Resp: 3561
 Ion Ratio Lower Upper
 128 100
 127 9.4 9.7 14.5#
 129 0.0 8.1 12.1#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

