

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030519\
 Data File : VD060945.D
 Acq On : 5 Mar 2019 13:35
 Operator : VA/AP
 Sample : K1672-04RE
 Misc : 6.64g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

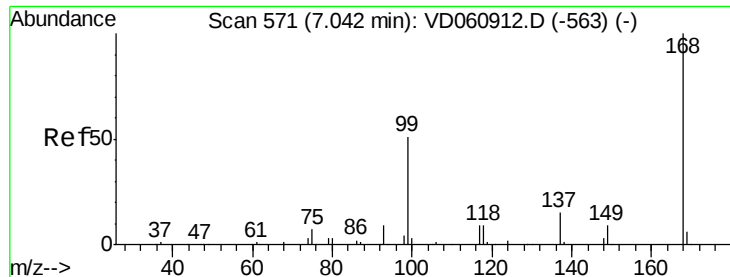
Quant Time: Mar 06 04:27:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 01:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	88970	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	172583	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	156668	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	70959	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	48448	65.87	ug/l	0.02
Spiked Amount			Recovery	=	131.74%	
35) Dibromofluoromethane	6.94	113	64433	46.57	ug/l	0.02
Spiked Amount			Recovery	=	93.14%	
50) Toluene-d8	10.41	98	134241	38.99	ug/l	0.02
Spiked Amount			Recovery	=	77.98%	
62) 4-Bromofluorobenzene	13.55	95	60005	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	605	4.634	ug/l #	1
10) Methyl Iodide	3.35	142	2577	6.089	ug/l #	92
11) Tert butyl alcohol	4.01	59	16722	305.046	ug/l #	77
16) Acetone	3.23	43	37754	153.736	ug/l	92
18) Methyl Acetate	3.65	43	2187	4.349	ug/l #	56
20) Methylene Chloride	3.84	84	7986	3.473	ug/l	95
25) 2-Butanone	6.16	43	8158	26.779	ug/l #	55
26) 2,2-Dichloropropane	6.16	77	8306	5.931	ug/l #	48
29) Tetrahydrofuran	6.49	42	388	2.474	ug/l #	34
37) Ethyl Acetate	6.16	43	8158	10.001	ug/l #	7
38) Carbon Tetrachloride	7.06	117	7764	4.554	ug/l #	12
51) 4-Methyl-2-Pentanone	10.31	43	2505	3.618	ug/l #	81
58) 2-Chloroethyl Vinyl ether	9.86	63	1794	3.691	ug/l #	46
59) 2-Hexanone	11.54	43	1023	2.108	ug/l	85
76) 1,2,3-Trichloropropane	13.55	75	18583	16.163	ug/l #	47
81) trans-1,4-Dichloro-2-buten	13.55	75	21430	62.980	ug/l #	20
89) n-Butylbenzene	14.80	91	2759	Below Cal		91
93) 1,2,4-Trichlorobenzene	15.95	180	1656	1.352	ug/l #	93
95) Naphthalene	16.13	128	4539	2.380	ug/l #	83
96) 1,2,3-Trichlorobenzene	16.27	180	1104	1.605	ug/l #	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

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ClientSampleId :

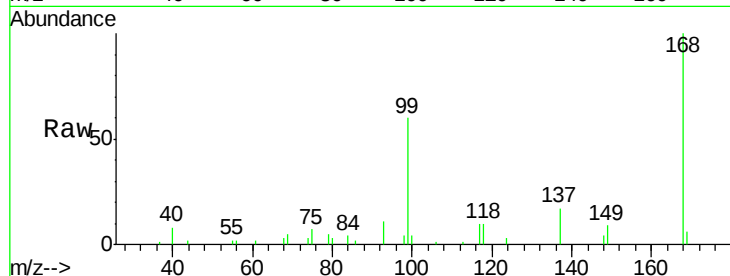
BFB

Tot Ion:168 Resp: 88970

Ion Ratio Lower Upper

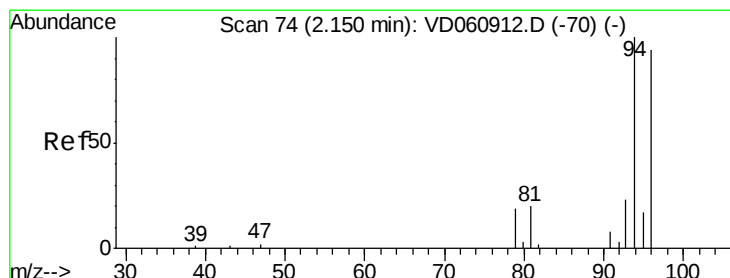
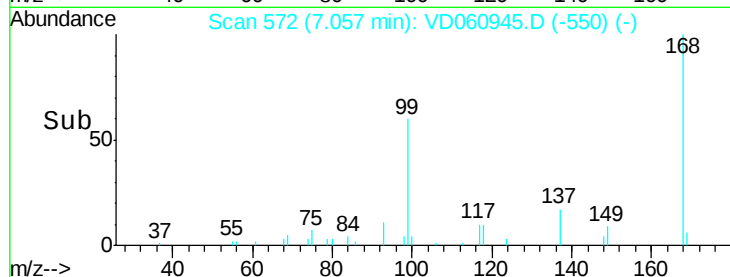
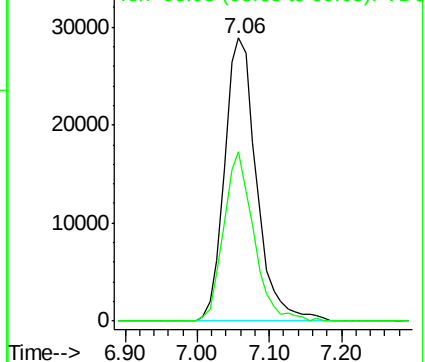
168 100

99 60.0 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 4.634 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.04 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

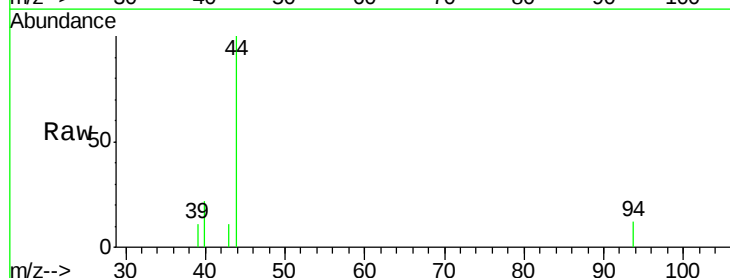
Tgt Ion: 94 Resp: 605

Ion Ratio Lower Upper

94 100

96 0.0 75.1 112.7#

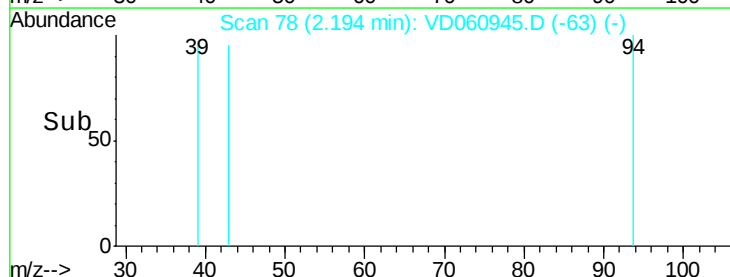
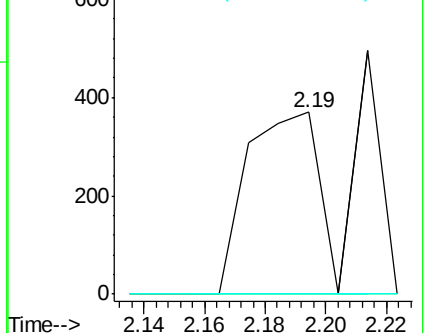
93 100.0 18.6 28.0#

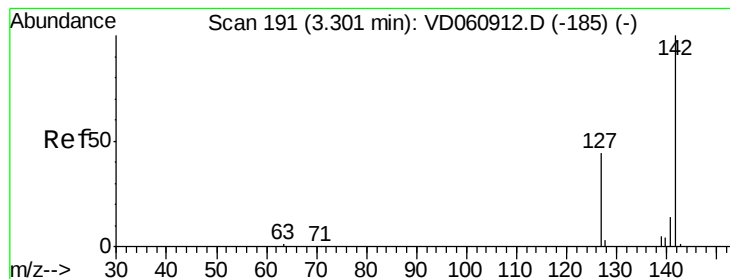


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

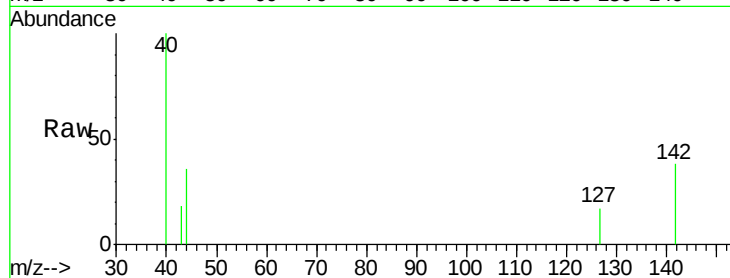




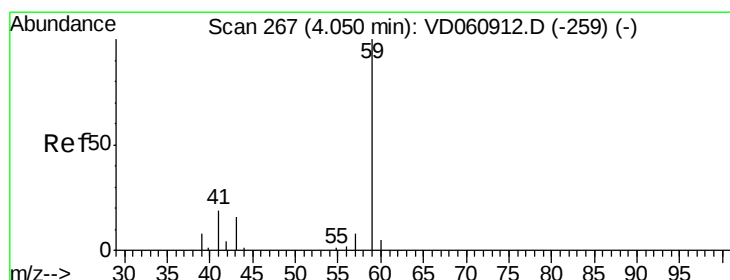
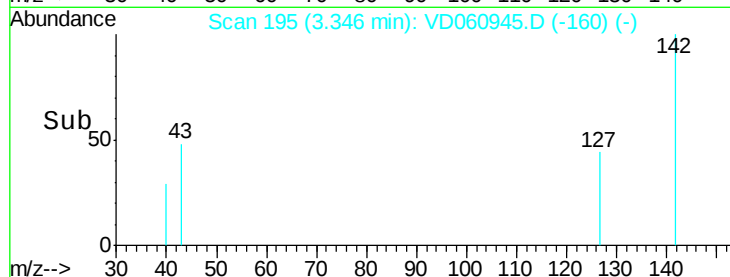
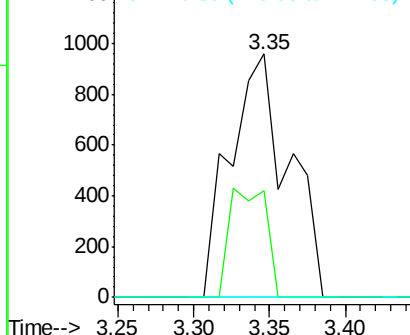
#10
Methvl Iodide
Concen: 6.089 ug/l
RT: 3.35 min Scan# 195
Delta R.T. 0.04 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Instrument :
MSVOA_D
ClientSampled :
BFB

Tot Ion:142 Resp: 2577
Ion Ratio Lower Upper
142 100
127 43.8 35.0 52.6
141 0.0 11.0 16.4#

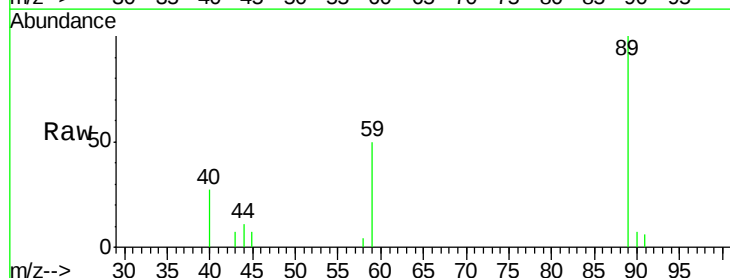


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

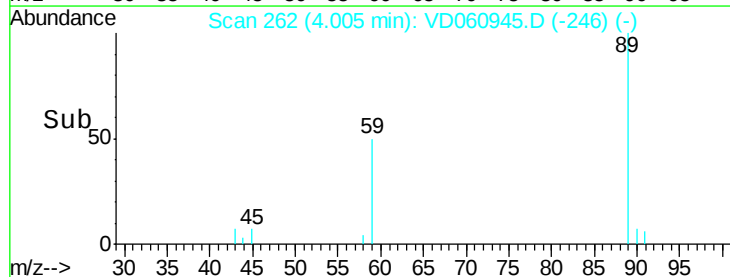
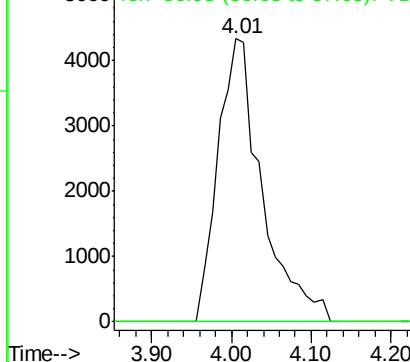


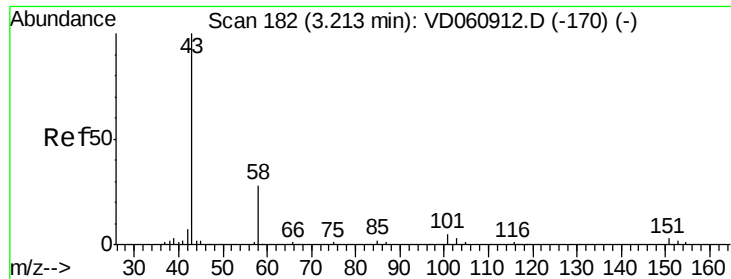
#11
Tert butyl alcohol
Concen: 305.046 ug/l
RT: 4.01 min Scan# 262
Delta R.T. -0.04 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Tgt Ion: 59 Resp: 16722
Ion Ratio Lower Upper
59 100
57 0.0 6.5 9.7#



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





#16

Acetone

Concen: 153.736 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

Instrument :

MSVOA_D

ClientSampleId :

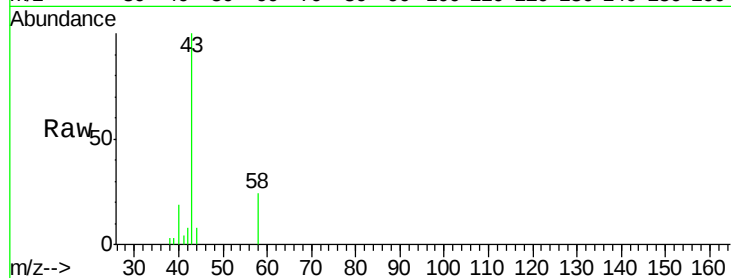
BFB

Tot Ion: 43 Resp: 37754

Ion Ratio Lower Upper

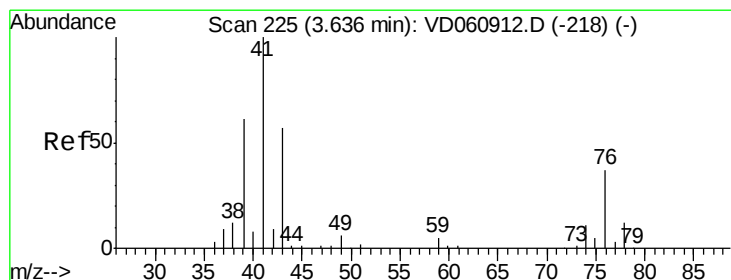
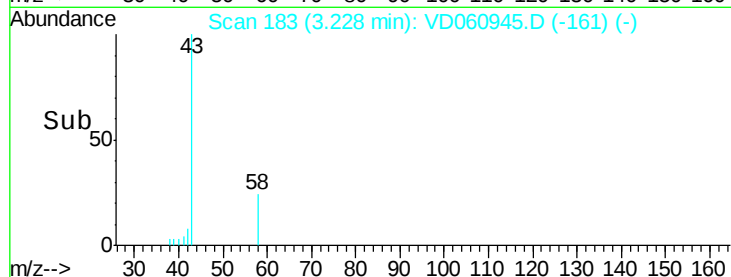
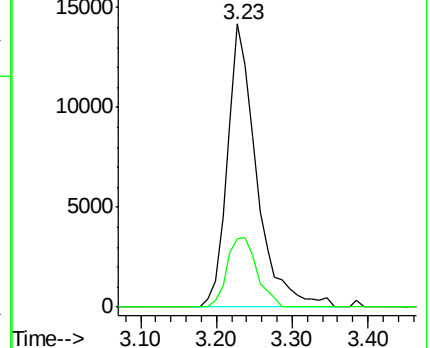
43 100

58 24.3 22.8 34.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 4.349 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD060945.D

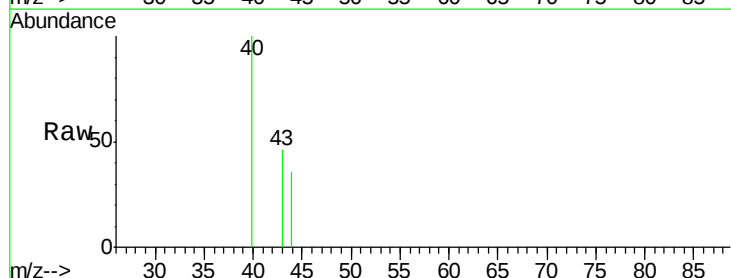
Acq: 5 Mar 2019 13:35

Tgt Ion: 43 Resp: 2187

Ion Ratio Lower Upper

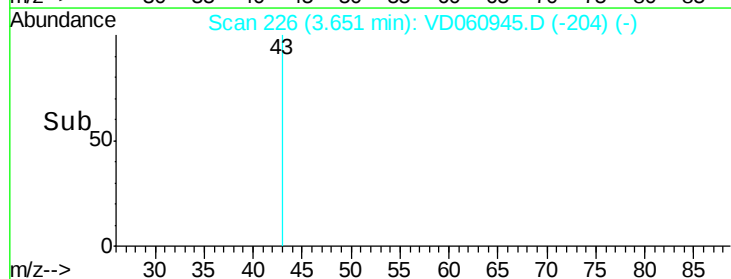
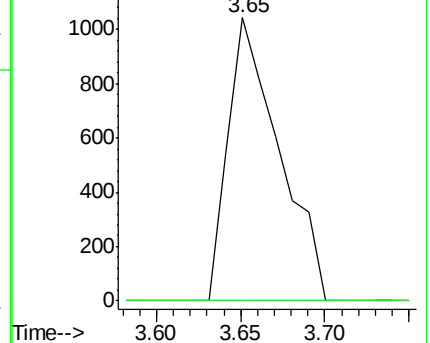
43 100

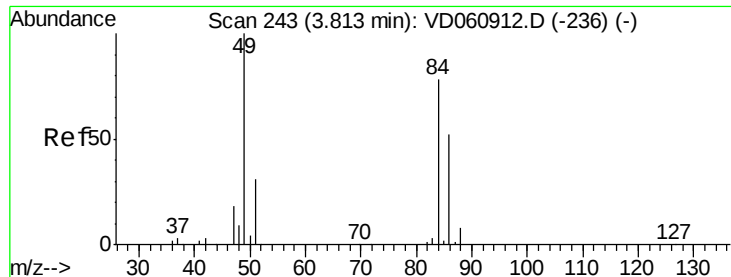
74 0.0 16.1 24.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

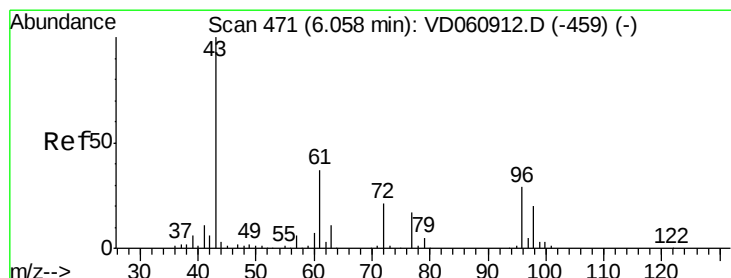
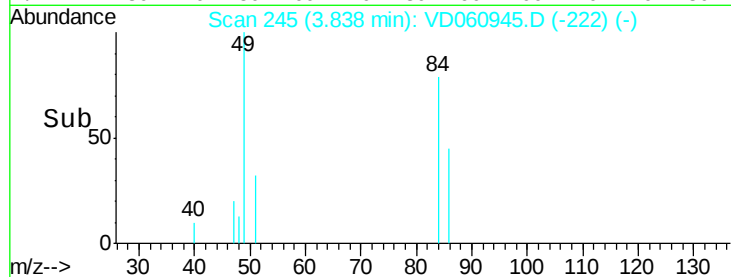
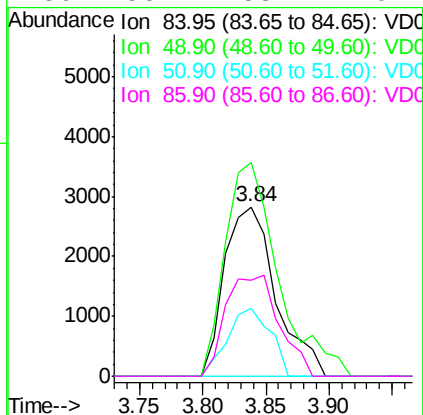
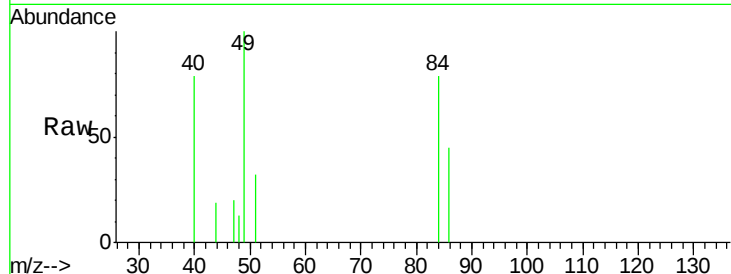




#20
Methylene Chloride
Concen: 3.473 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.03 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

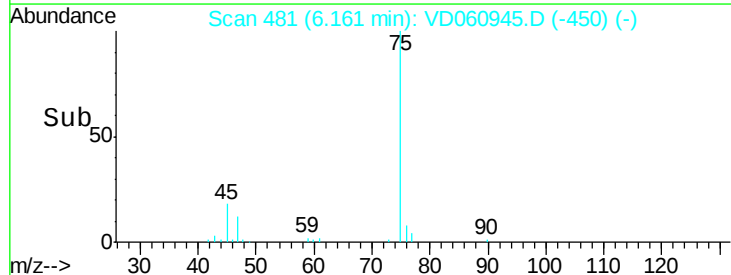
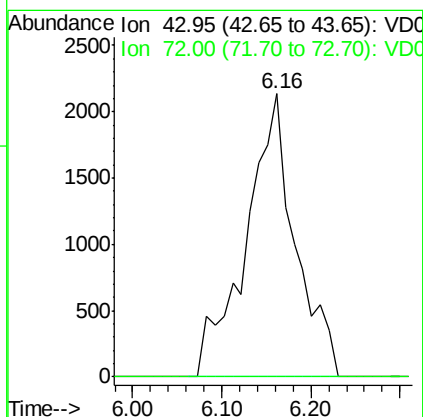
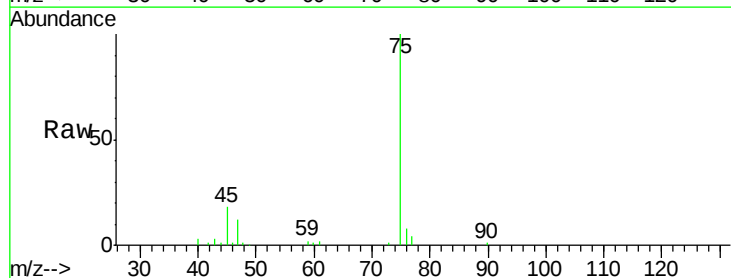
Instrument :
MSVOA_D
ClientSampled :
BFB

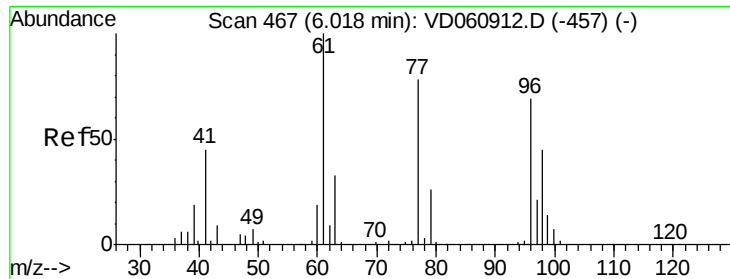
Tot Ion: 84 Resp: 7986
Ion Ratio Lower Upper
84 100
49 126.0 102.4 153.6
51 40.2 31.9 47.9
86 56.4 53.1 79.7



#25
2-Butanone
Concen: 26.779 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.10 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Tgt Ion: 43 Resp: 8158
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.4#





#26

2,2-Dichloropropane

Concen: 5.931 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.14 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

Instrument :

MSVOA_D

ClientSampleId :

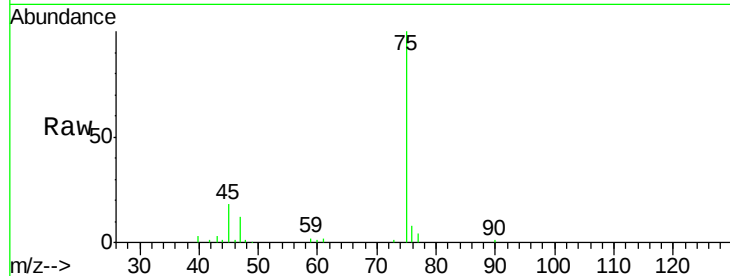
BFB

Tot Ion: 77 Resp: 8306

Ion Ratio Lower Upper

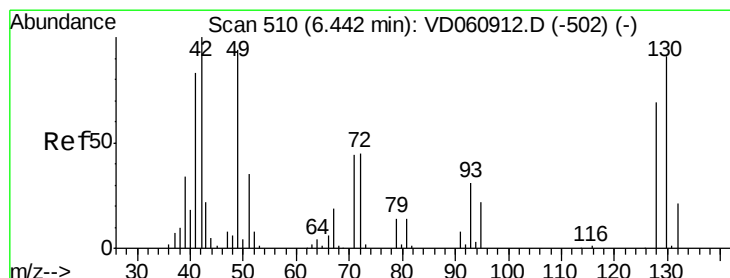
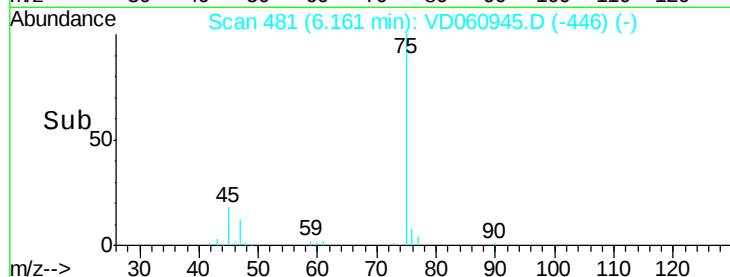
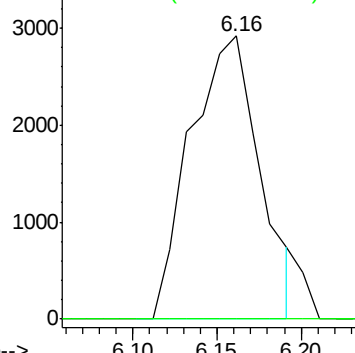
77 100

97 0.0 13.5 40.4#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#29

Tetrahydrofuran

Concen: 2.474 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.04 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

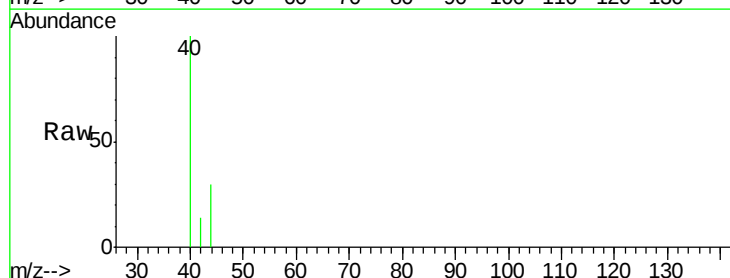
Tgt Ion: 42 Resp: 388

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

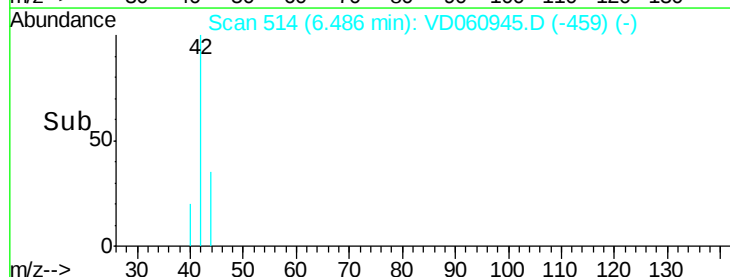
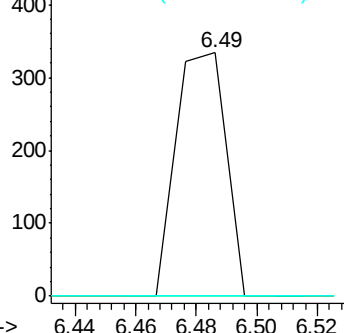
71 0.0 33.5 50.3#

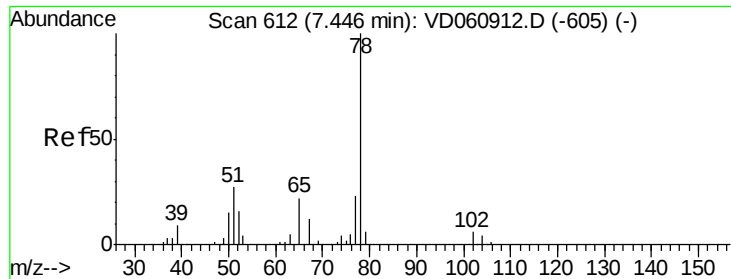


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

Instrument :

MSVOA_D

ClientSampleId :

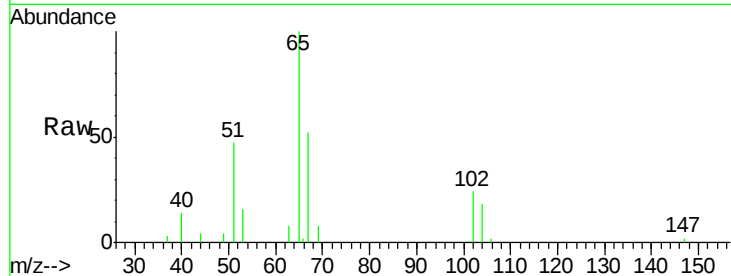
BFB

Tot Ion: 65 Resp: 48448

Ion Ratio Lower Upper

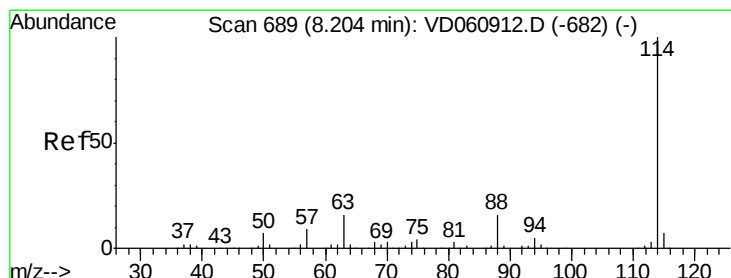
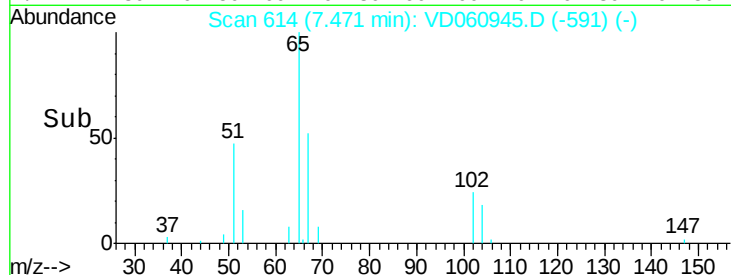
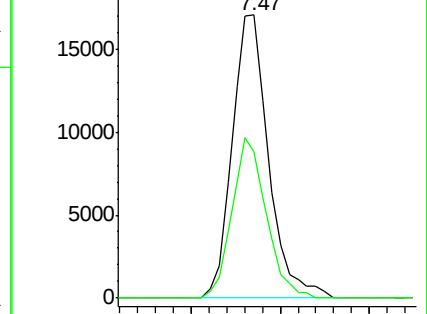
65 100

67 51.7 0.0 109.4



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. 0.02 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

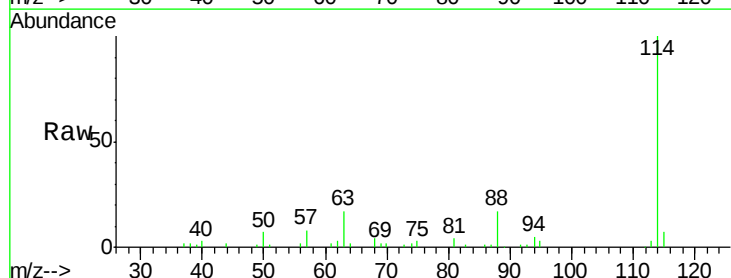
Tgt Ion: 114 Resp: 172583

Ion Ratio Lower Upper

114 100

63 16.6 0.0 32.0

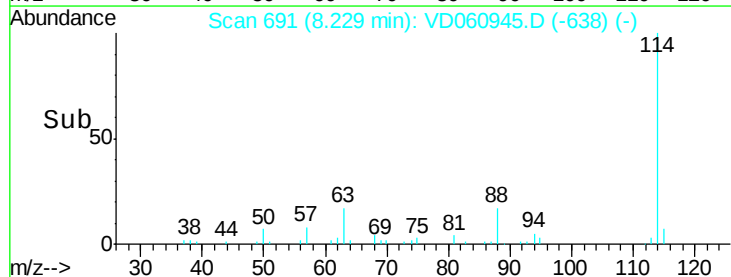
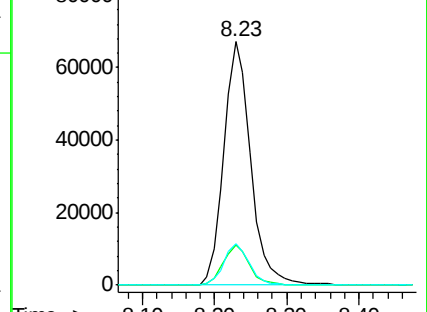
88 17.2 0.0 32.8

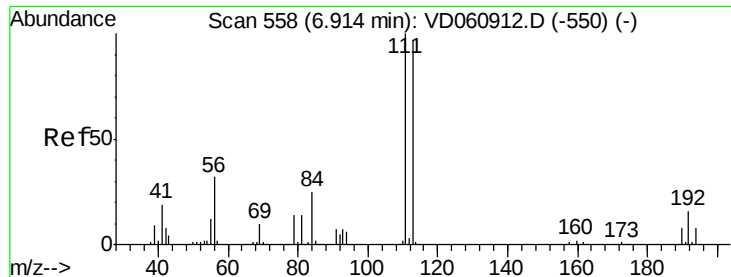


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

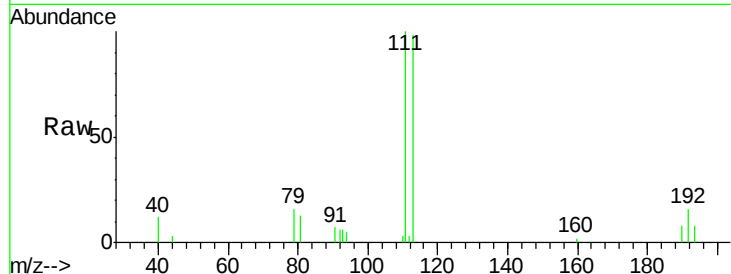




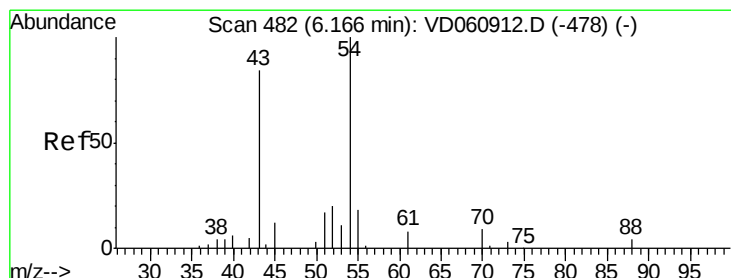
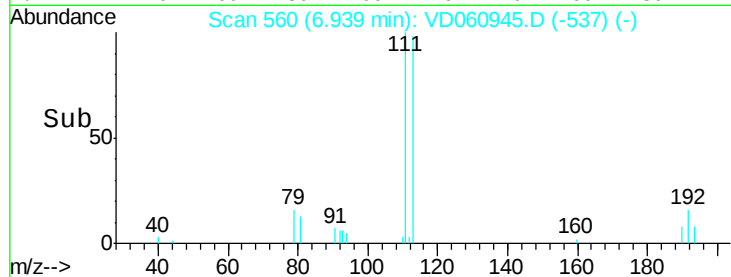
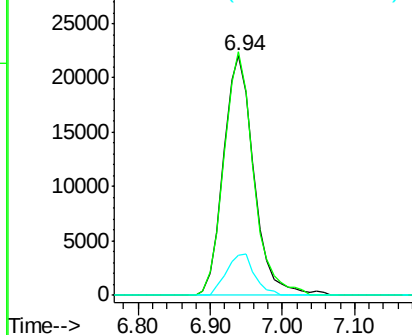
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.02 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Instrument :
MSVOA_D
ClientSampled :
BFB

Tot Ion:113 Resp: 64433
Ion Ratio Lower Upper
113 100
111 101.7 82.6 124.0
192 16.7 13.4 20.2

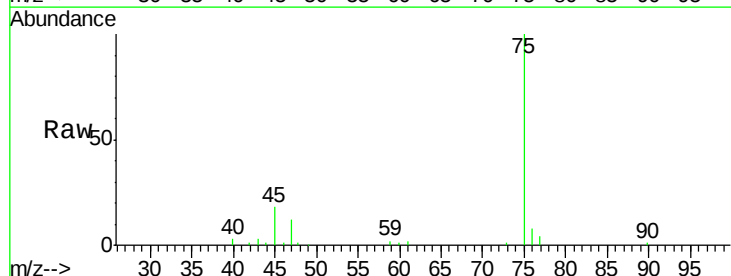


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

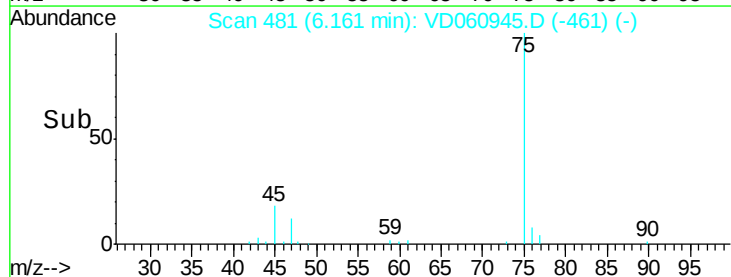
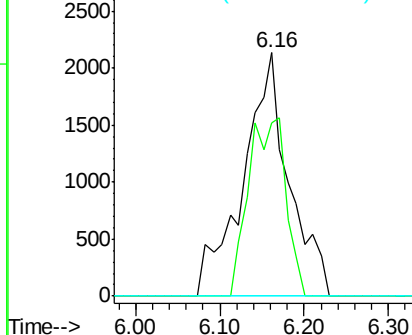


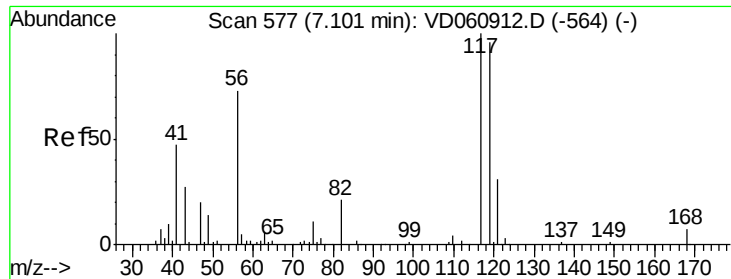
#37
Ethyl Acetate
Concen: 10.001 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.00 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Tgt Ion: 43 Resp: 8158
Ion Ratio Lower Upper
43 100
61 71.1 12.1 18.1#
70 0.0 7.3 10.9#



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

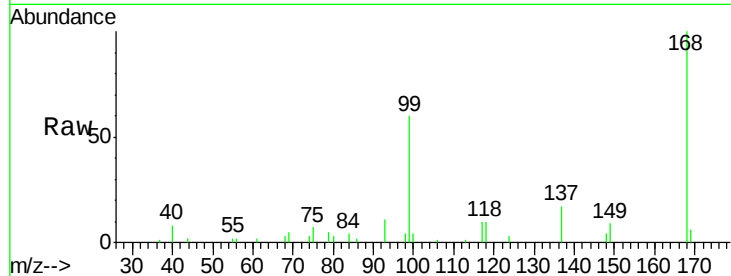




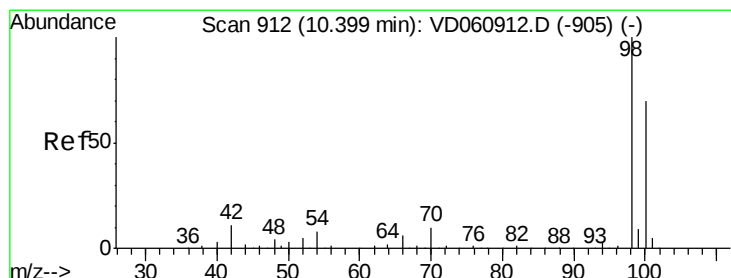
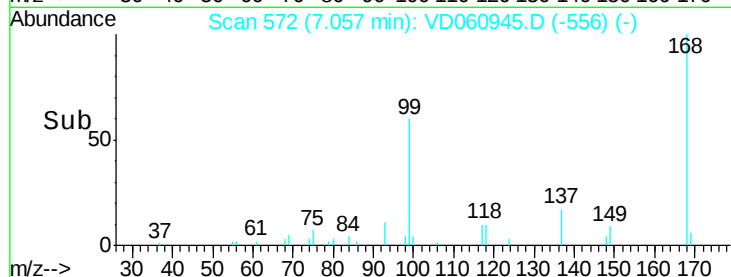
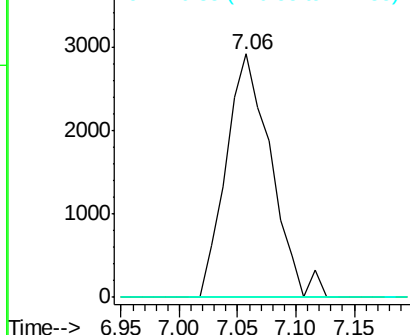
#38
Carbon Tetrachloride
Concen: 4.554 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.04 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Instrument :
MSVOA_D
ClientSampleId :
BFB

Tot Ion:117 Resp: 7764
Ion Ratio Lower Upper
117 100
119 0.0 76.9 115.3#
121 0.0 24.5 36.7#

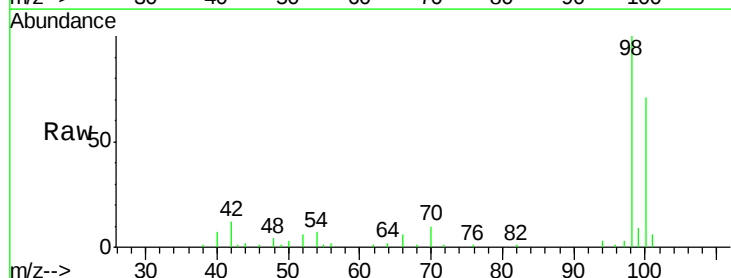


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

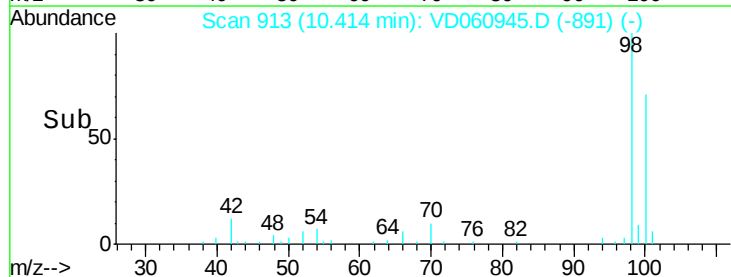
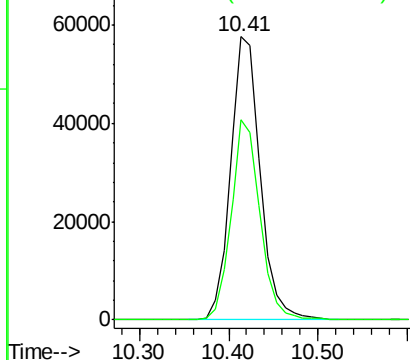


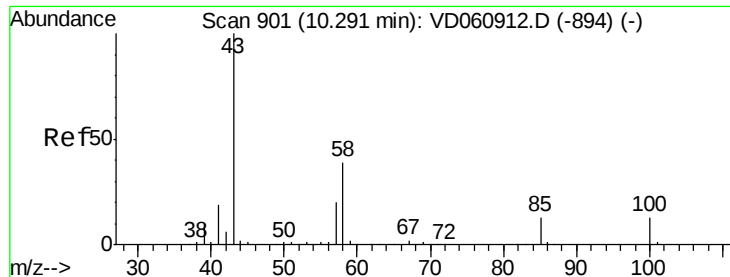
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Tgt Ion: 98 Resp: 134241
Ion Ratio Lower Upper
98 100
100 70.9 57.0 85.4



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: 3.618 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

Instrument :

MSVOA_D

ClientSampled :

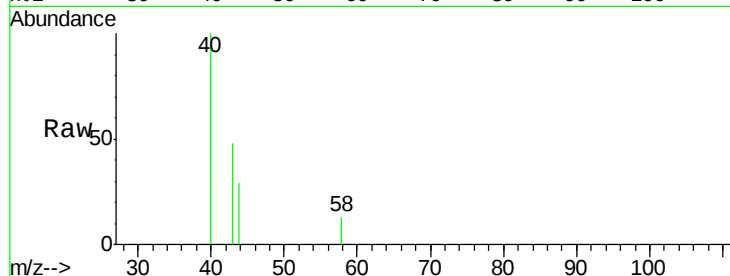
BFB

Tot Ion: 43 Resp: 2505

Ion Ratio Lower Upper

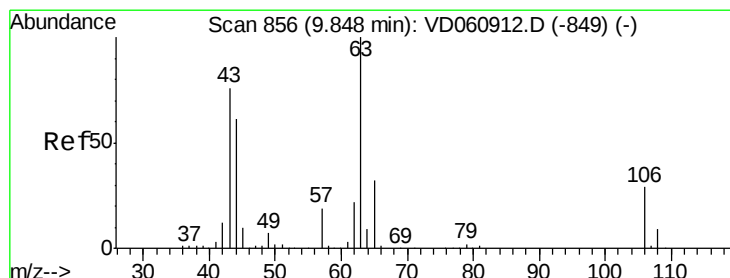
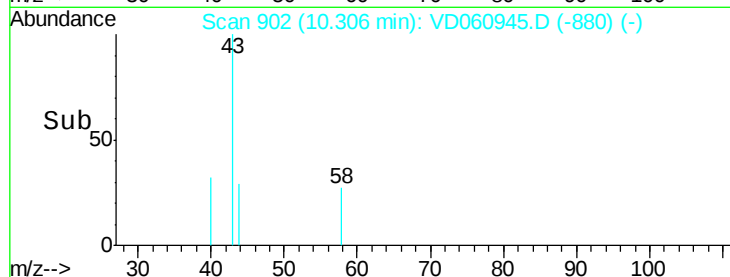
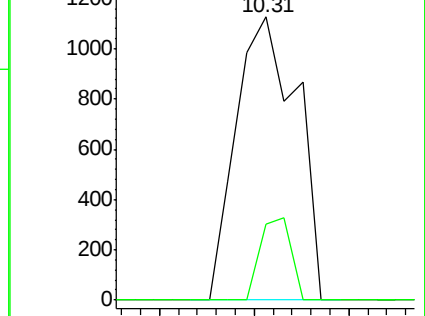
43 100

58 27.0 31.0 46.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 3.691 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD060945.D

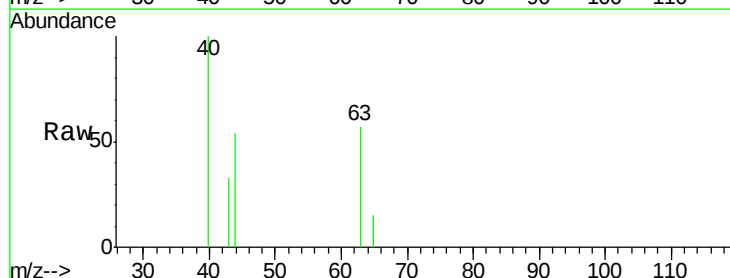
Acq: 5 Mar 2019 13:35

Tgt Ion: 63 Resp: 1794

Ion Ratio Lower Upper

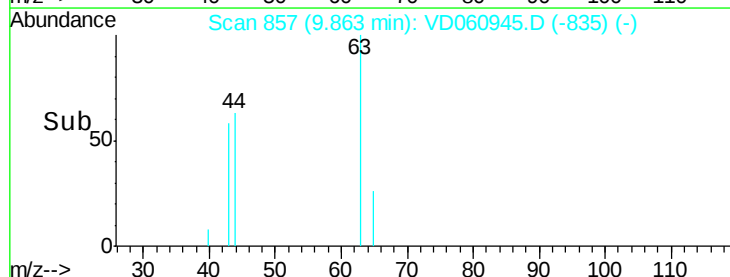
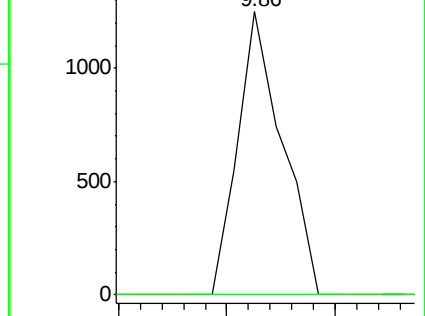
63 100

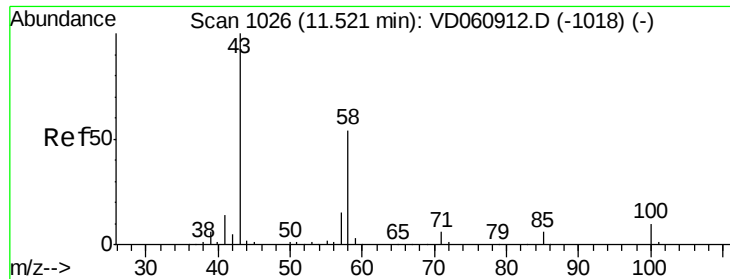
106 0.0 23.0 34.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

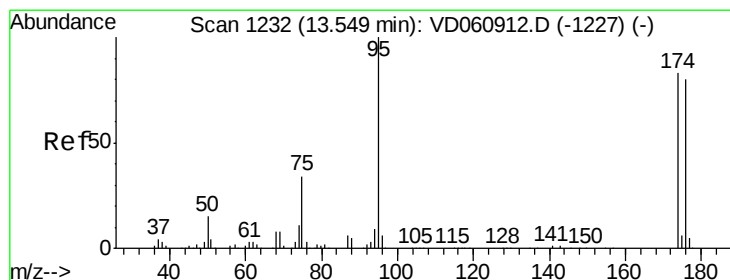
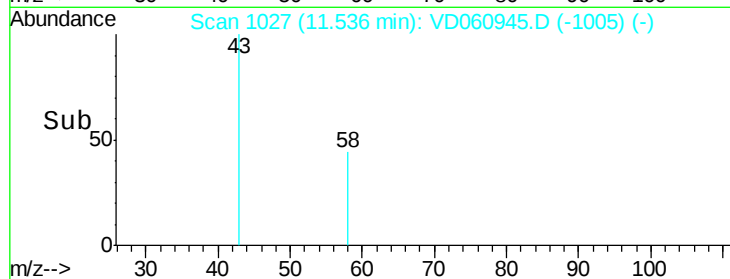
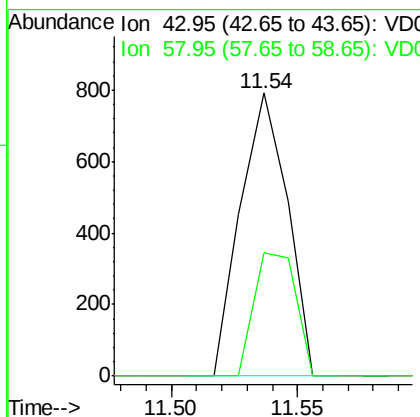
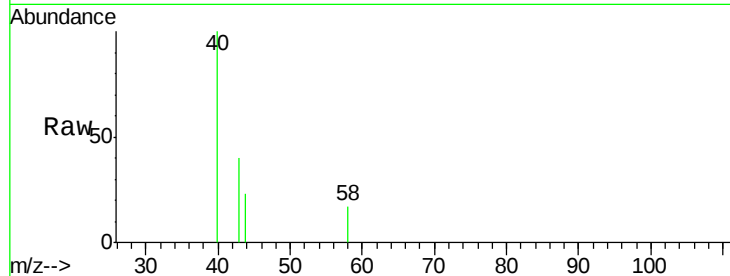




#59
2-Hexanone
Concen: 2.108 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

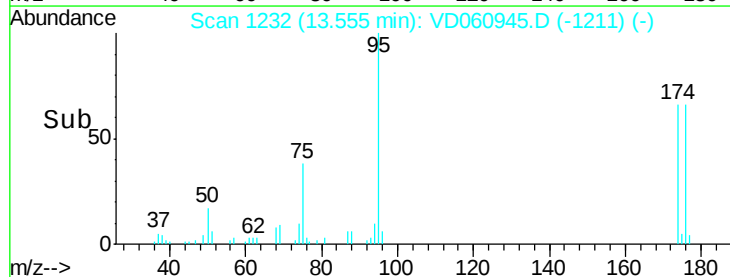
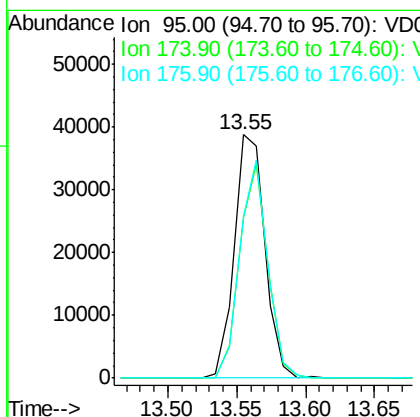
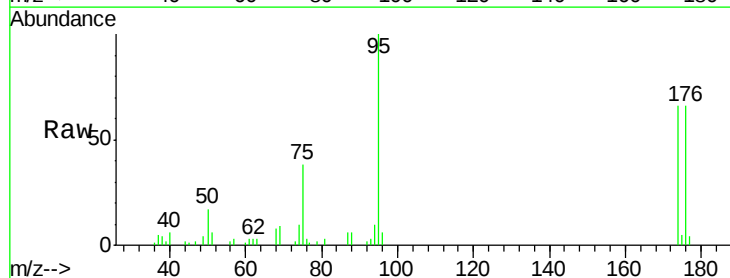
Instrument :
MSVOA_D
ClientSampled :
BFB

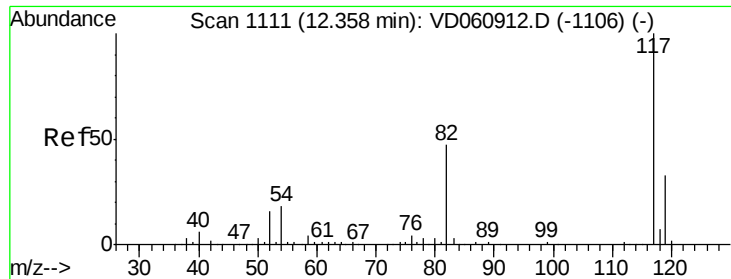
Tot Ion: 43 Resp: 1023
Ion Ratio Lower Upper
43 100
58 43.7 27.2 81.5



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Tgt Ion: 95 Resp: 60005
Ion Ratio Lower Upper
95 100
174 65.7 0.0 165.6
176 66.5 0.0 160.6

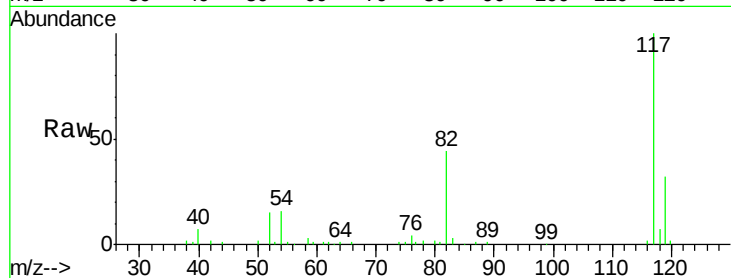




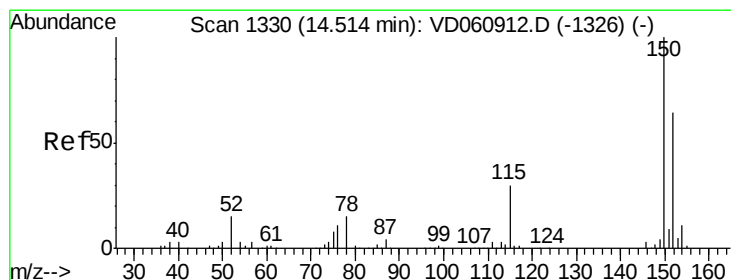
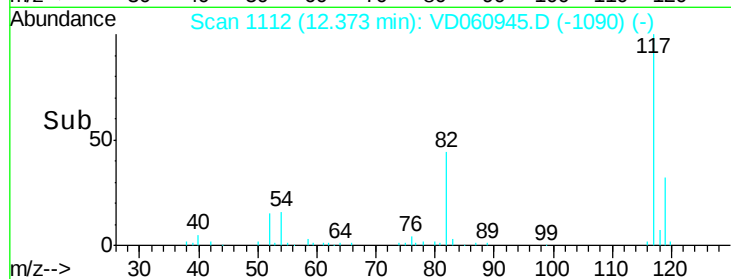
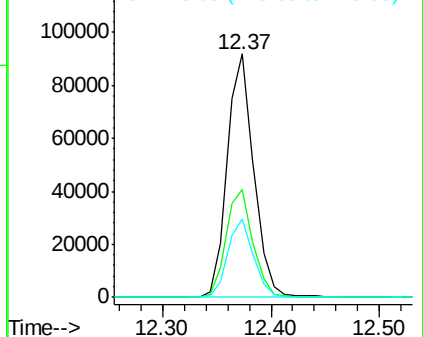
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Instrument :
MSVOA_D
ClientSampleId :
BFB

Tot Ion:117 Resp: 156668
Ion Ratio Lower Upper
117 100
82 44.3 37.5 56.3
119 32.4 26.2 39.2

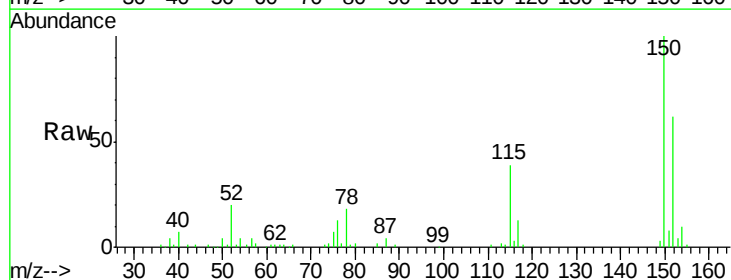


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

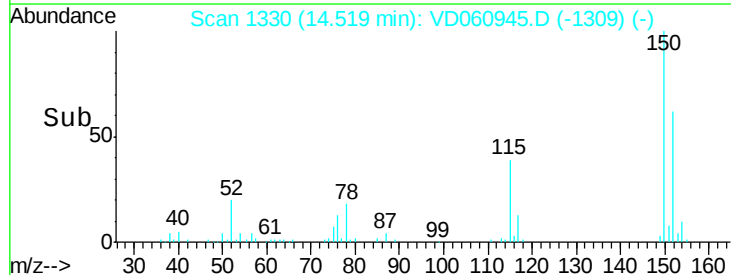
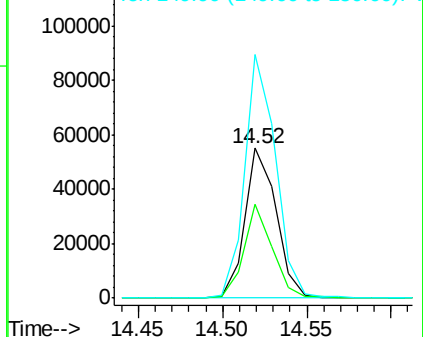


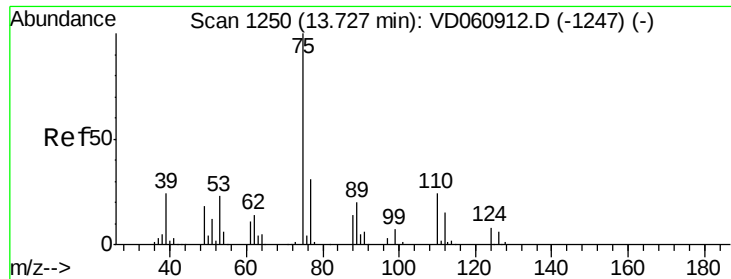
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD060945.D
Acq: 5 Mar 2019 13:35

Tgt Ion:152 Resp: 70959
Ion Ratio Lower Upper
152 100
115 62.8 27.6 82.8
150 162.4 0.0 312.8



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: 16.163 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

Instrument :

MSVOA_D

ClientSampled :

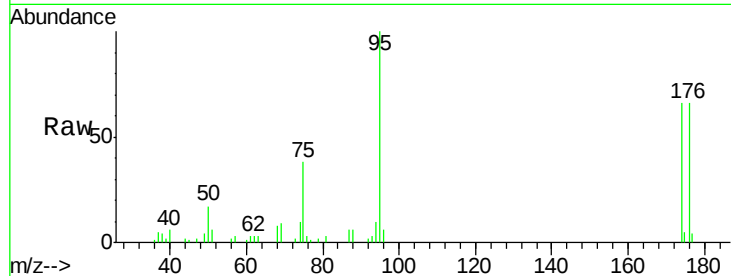
BFB

Tot Ion: 75 Resp: 18583

Ion Ratio Lower Upper

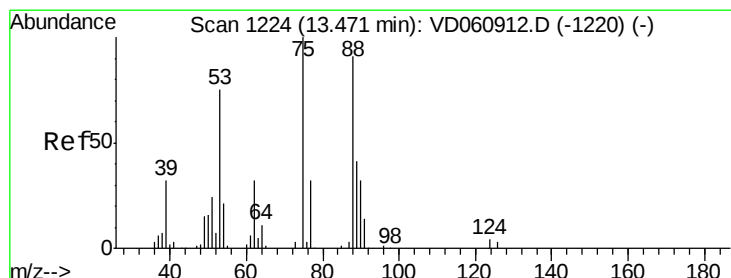
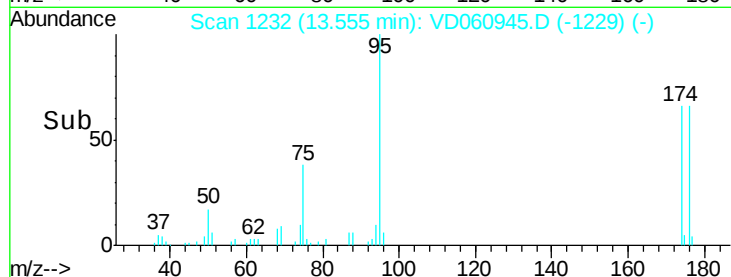
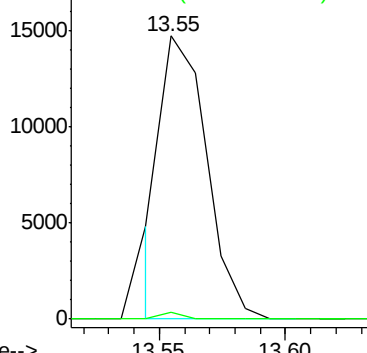
75 100

77 2.4 16.2 48.6#



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: 62.980 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD060945.D

Acq: 5 Mar 2019 13:35

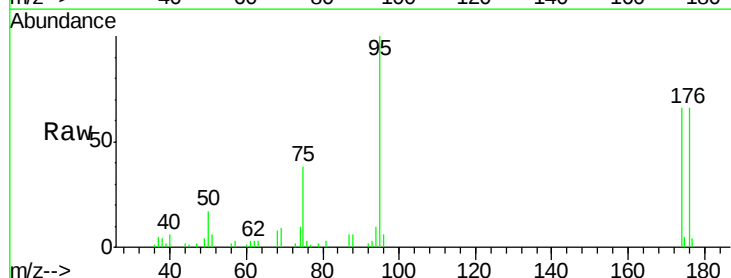
Tgt Ion: 75 Resp: 21430

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.6#

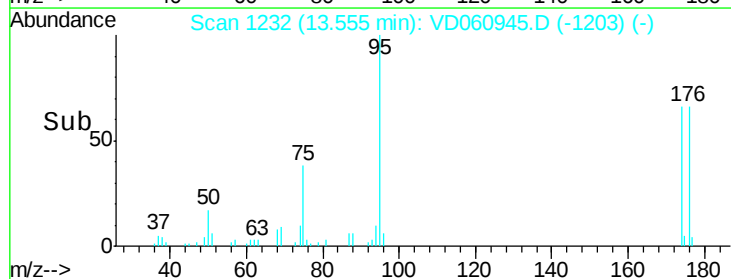
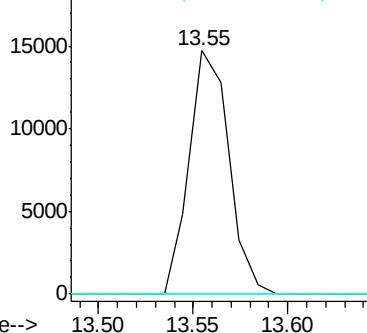
89 0.0 33.0 49.6#

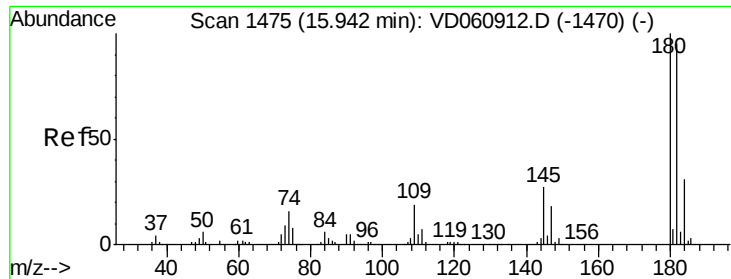


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

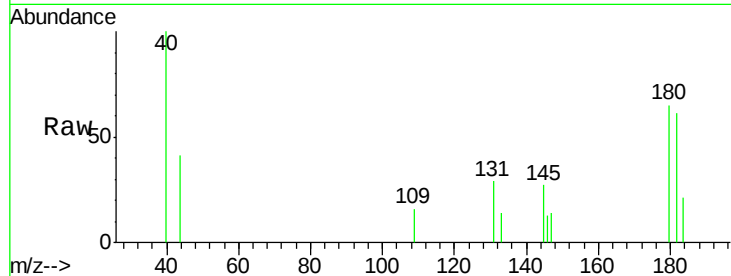




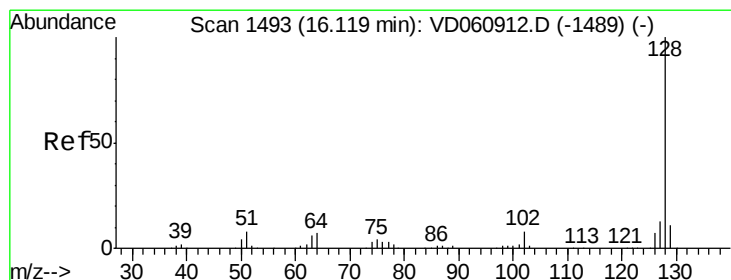
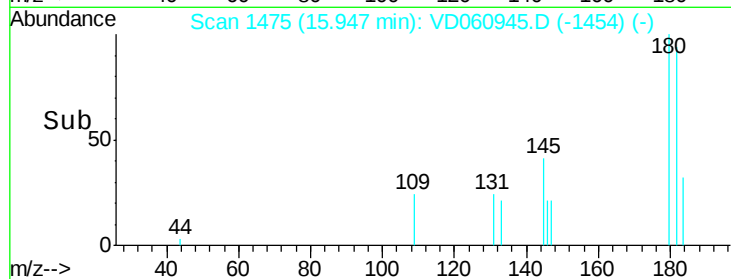
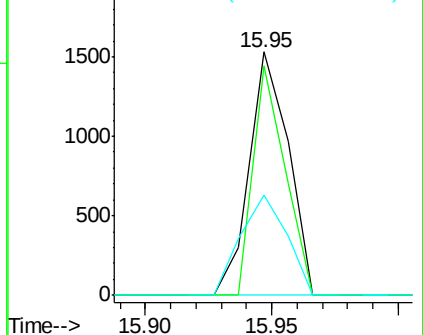
#93
 1,2,4-Trichlorobenzene
 Concen: 1.352 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.01 min
 Lab File: VD060945.D
 Acq: 5 Mar 2019 13:35

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

Tot Ion:180 Resp: 1656
 Ion Ratio Lower Upper
 180 100
 182 94.3 47.5 142.6
 145 41.0 13.5 40.5#

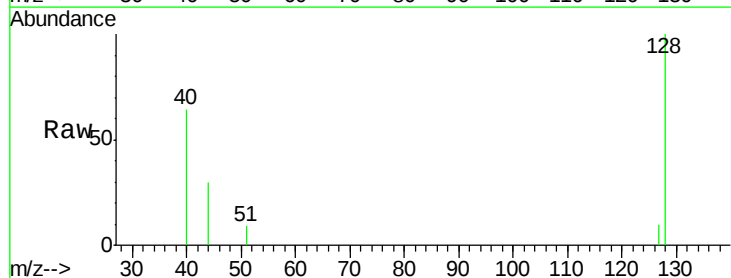


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

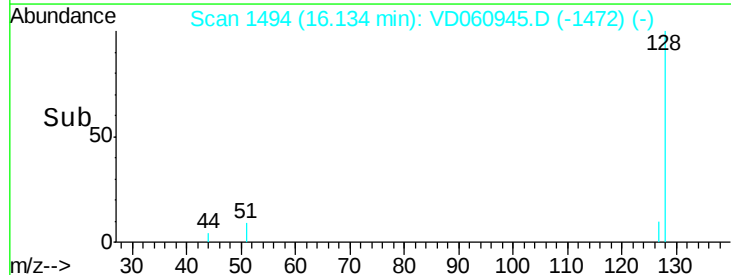
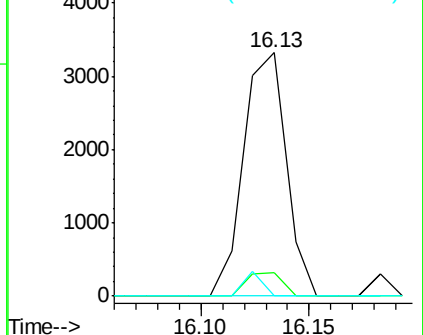


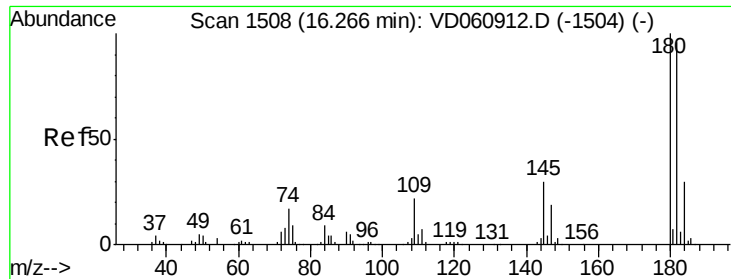
#95
 Naphthalene
 Concen: 2.380 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.02 min
 Lab File: VD060945.D
 Acq: 5 Mar 2019 13:35

Tgt Ion:128 Resp: 4539
 Ion Ratio Lower Upper
 128 100
 127 9.8 10.1 15.1#
 129 0.0 8.7 13.1#



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

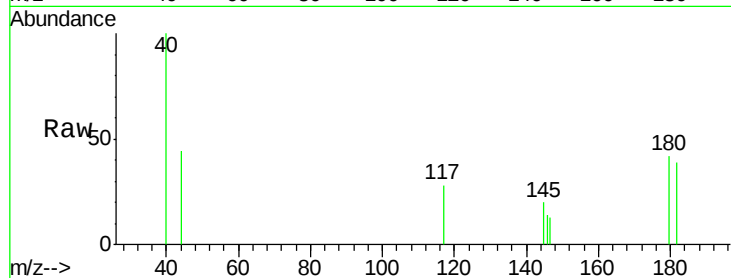




#96
 1,2,3-Trichlorobenzene
 Concen: 1.605 ug/l
 RT: 16.27 min Scan# 1508
 Delta R.T. 0.01 min
 Lab File: VD060945.D
 Acq: 5 Mar 2019 13:35

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

Tot Ion:180 Resp: 1104
 Ion Ratio Lower Upper
 180 100
 182 93.7 48.1 144.4
 145 49.1 14.8 44.4#



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

