

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062819\
 Data File : VD062960.D
 Acq On : 28 Jun 2019 12:27
 Operator : VA/AP
 Sample : K3526-01RE
 Misc : 5.01g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-01-4.0-4.5RE

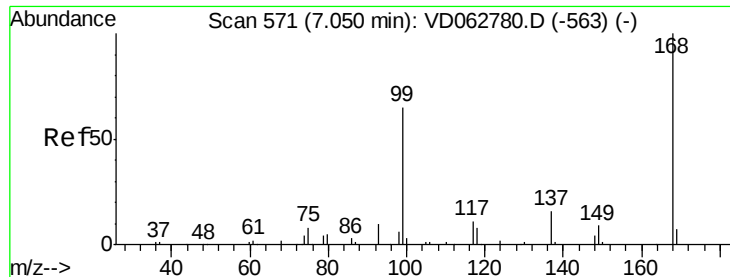
Quant Time: Jun 29 00:14:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	217942	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.20	114	351995	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.35	117	266194	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	95704	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	218606	92.28	ug/l	-0.03
Spiked Amount			Recovery	=	184.56%	
35) Dibromofluoromethane	6.90	113	187583	63.20	ug/l	-0.03
Spiked Amount			Recovery	=	126.40%	
50) Toluene-d8	10.39	98	263124	40.73	ug/l	-0.02
Spiked Amount			Recovery	=	81.46%	
62) 4-Bromofluorobenzene	13.54	95	105995	36.09	ug/l	-0.01
Spiked Amount			Recovery	=	72.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.12	94	1117	1.134	ug/l #	13
8) Diethyl Ether	2.85	74	1367	2.528	ug/l	59
11) Tert butyl alcohol	4.07	59	468	4.338	ug/l #	77
13) Acrolein	3.06	56	188	1.707	ug/l #	15
16) Acetone	3.23	43	1030	Below Cal	#	64
18) Methyl Acetate	3.63	43	2656	3.714	ug/l #	58
20) Methylene Chloride	3.79	84	13176	7.293	ug/l #	85
25) 2-Butanone	6.15	43	9146	20.642	ug/l #	64
26) 2,2-Dichloropropane	6.14	77	6773	1.888	ug/l #	58
29) Tetrahydrofuran	6.47	42	231	1.102	ug/l #	33
36) 1,1-Dichloropropene	7.02	75	17089	5.129	ug/l #	64
37) Ethyl Acetate	6.15	43	9146	5.555	ug/l #	12
38) Carbon Tetrachloride	7.02	117	21003	4.191	ug/l #	13
58) 2-Chloroethyl Vinyl ether	9.83	63	2716	3.205	ug/l #	87
81) trans-1,4-Dichloro-2-buten	13.54	75	48177	166.380	ug/l #	2
95) Naphthalene	16.12	128	3145	1.135	ug/l #	73

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.03 min

Lab File: VD062960.D

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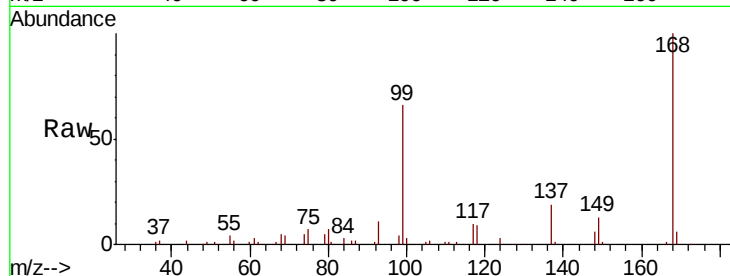
SB-01-4.0-4.5RE

Tot Ion:168 Resp: 217942

Ion Ratio Lower Upper

168 100

99 66.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

80000

60000

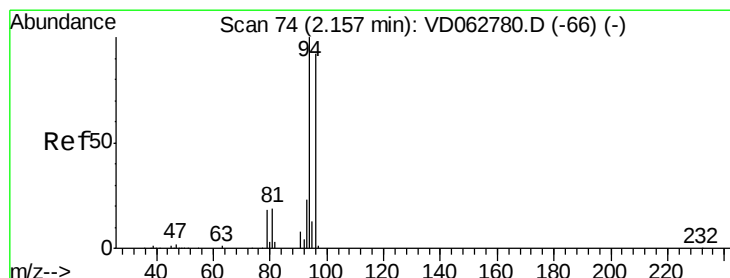
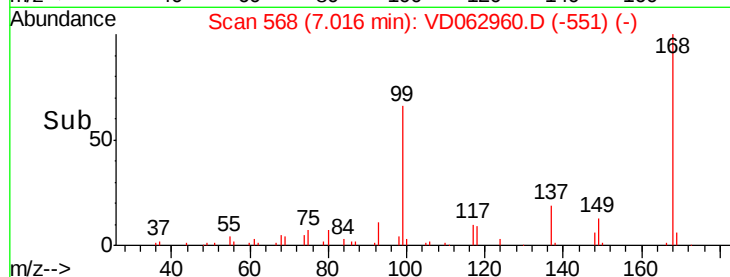
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.134 ug/l

RT: 2.12 min Scan# 71

Delta R.T. -0.03 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

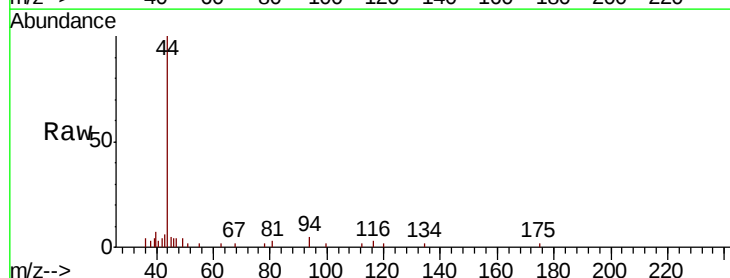
Tgt Ion: 94 Resp: 1117

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

93 0.0 18.2 27.4#



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

1500

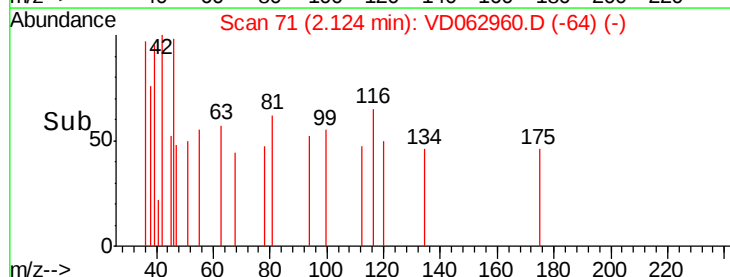
1000

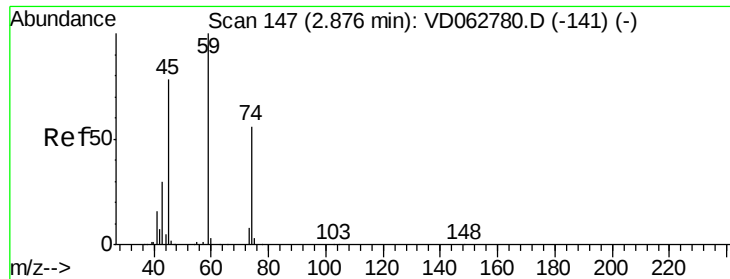
500

0

Time-->

2.05 2.10 2.15





#8

Diethyl Ether

Concen: 2.528 ug/l

RT: 2.85 min Scan# 145

Delta R.T. -0.02 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

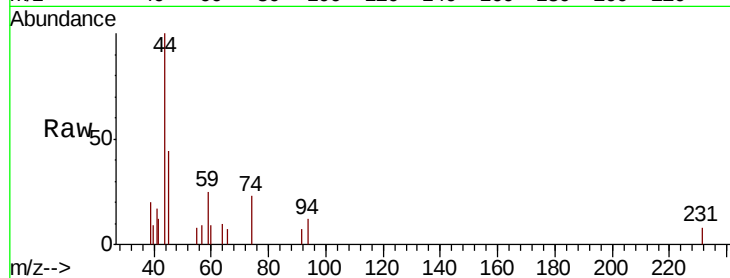
SB-01-4.0-4.5RE

Tot Ion: 74 Resp: 1367

Ion Ratio Lower Upper

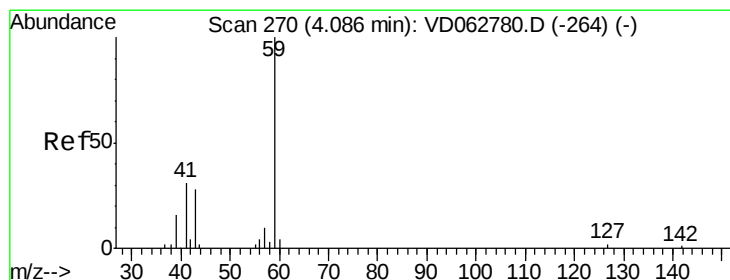
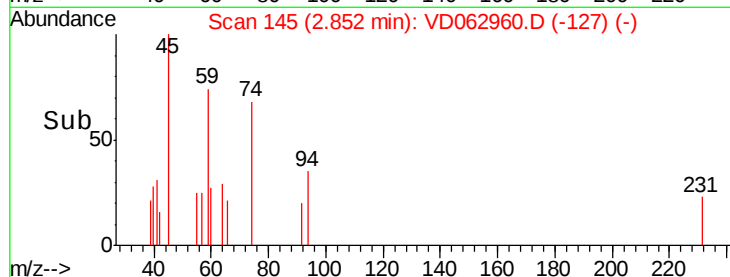
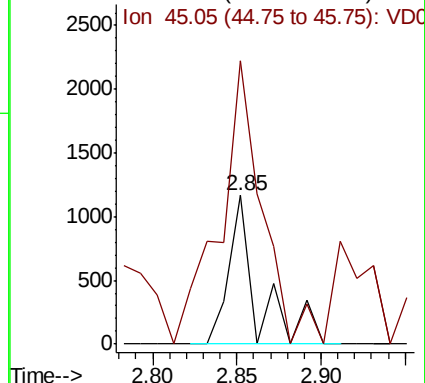
74 100

45 190.6 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 4.338 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD062960.D

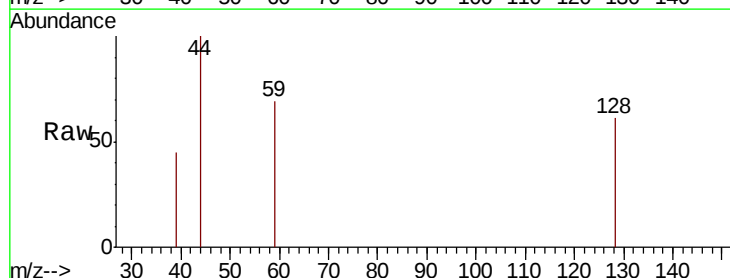
Acq: 28 Jun 2019 12:27

Tgt Ion: 59 Resp: 468

Ion Ratio Lower Upper

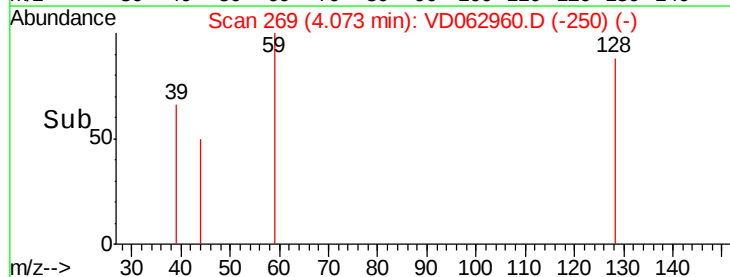
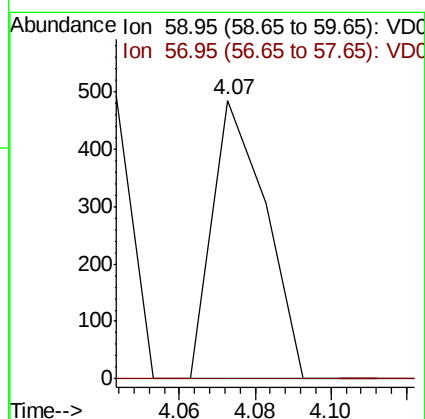
59 100

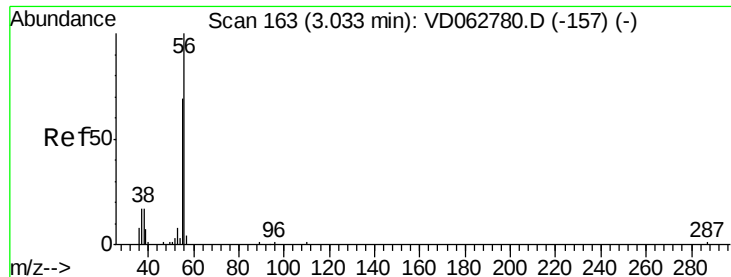
57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.707 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.03 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

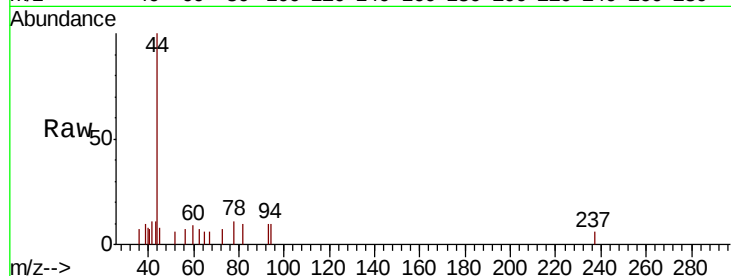
SB-01-4.0-4.5RE

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

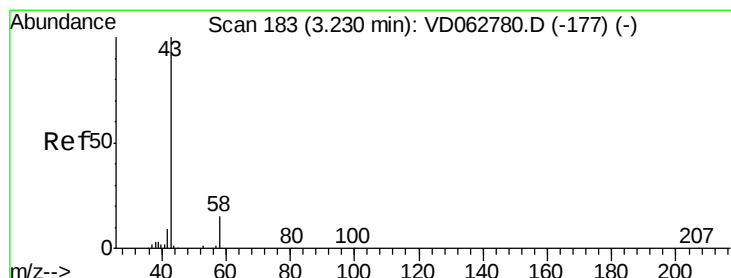
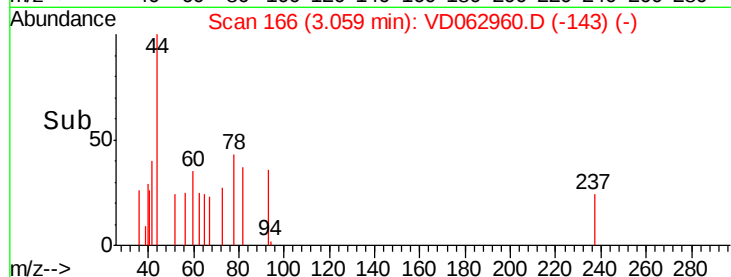
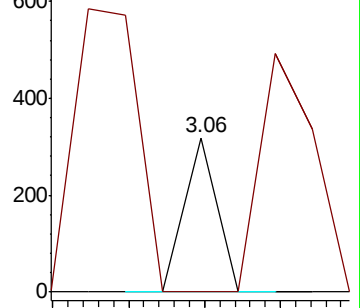
56 100

55 0.0 55.4 83.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: Below Cal

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD062960.D

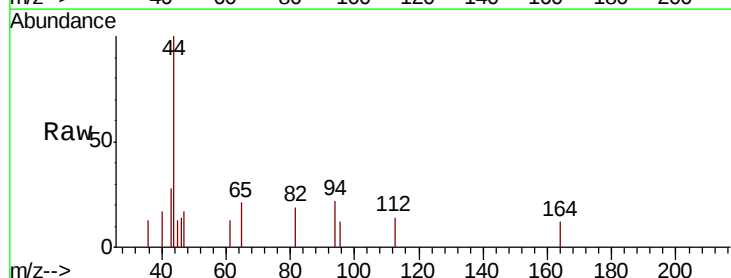
Acq: 28 Jun 2019 12:27

Tgt Ion: 43 Resp: 1030

Ion Ratio Lower Upper

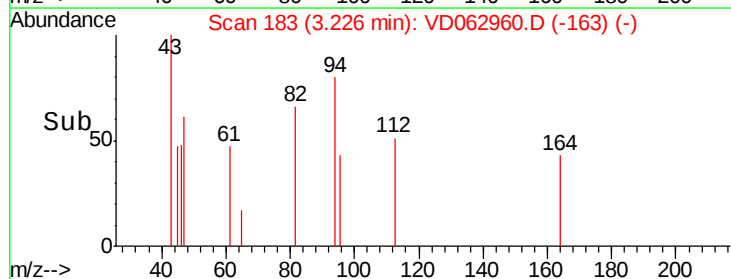
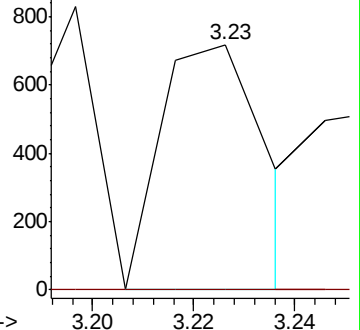
43 100

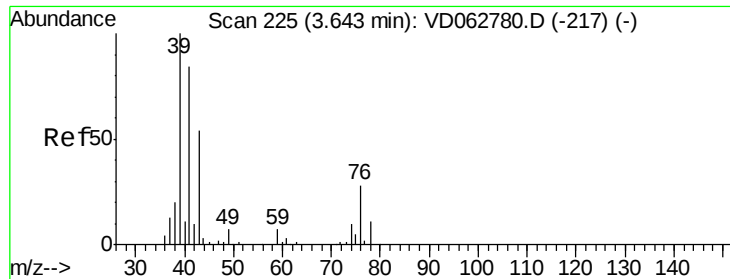
58 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

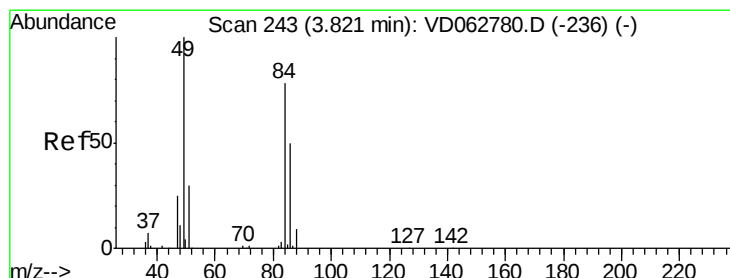
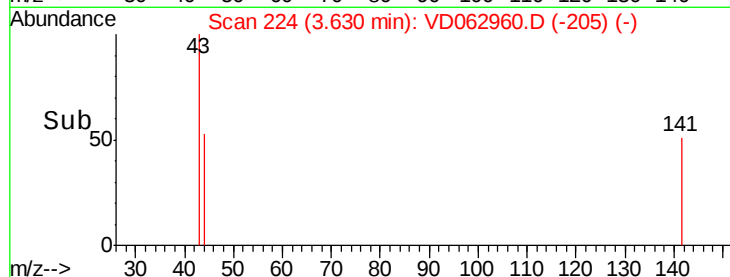
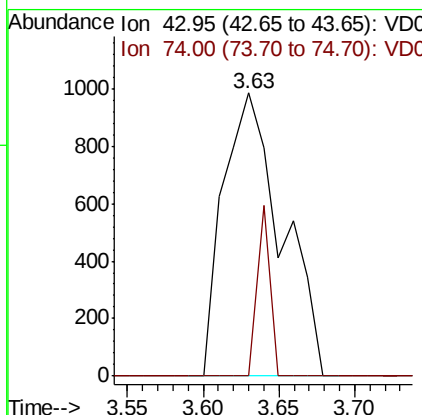
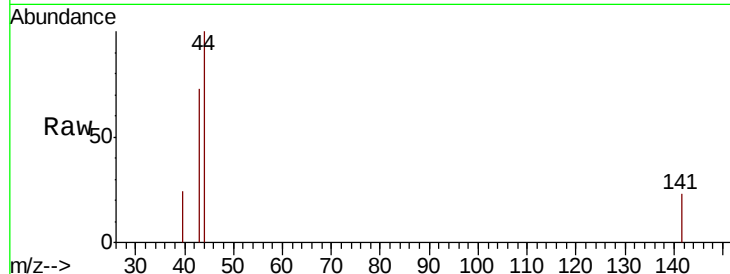




#18
Methyl Acetate
Concen: 3.714 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062960.D
Acq: 28 Jun 2019 12:27

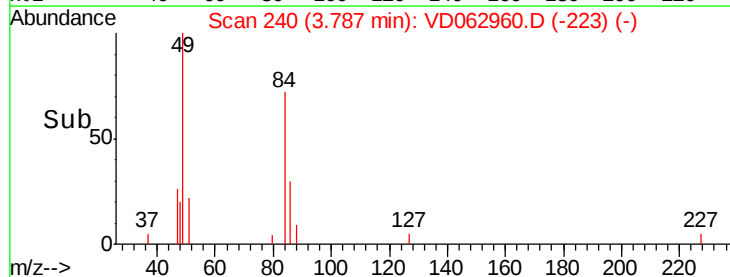
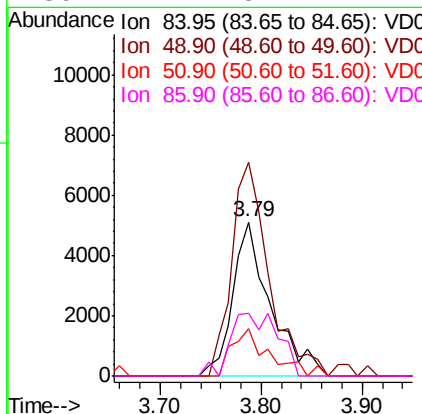
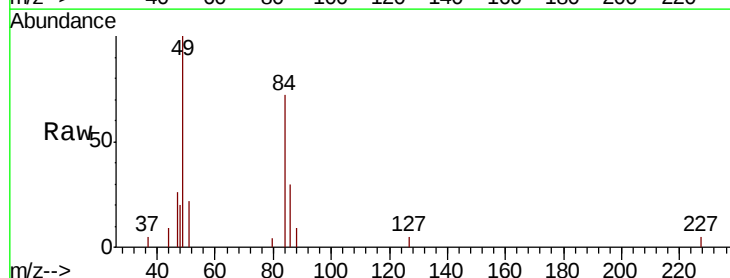
Instrument :
MSVOA_D
ClientSampleId :
SB-01-4.0-4.5RE

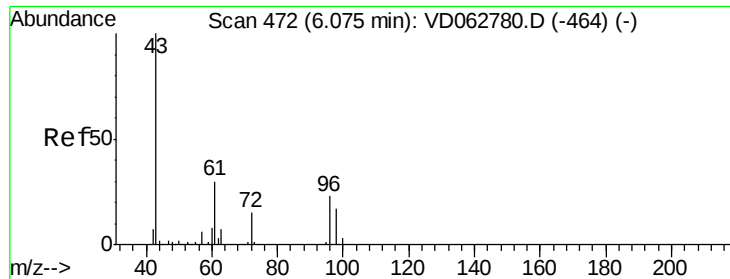
Tot Ion: 43 Resp: 2656
Ion Ratio Lower Upper
43 100
74 0.0 15.2 22.8#



#20
Methylene Chloride
Concen: 7.293 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.03 min
Lab File: VD062960.D
Acq: 28 Jun 2019 12:27

Tgt Ion: 84 Resp: 13176
Ion Ratio Lower Upper
84 100
49 138.5 102.9 154.3
51 30.8 31.2 46.8#
86 41.1 51.4 77.2#





#25

2-Butanone

Concen: 20.642 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.08 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

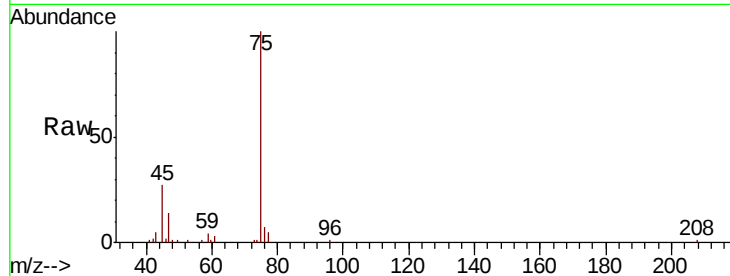
SB-01-4.0-4.5RE

Tot Ion: 43 Resp: 9146

Ion Ratio Lower Upper

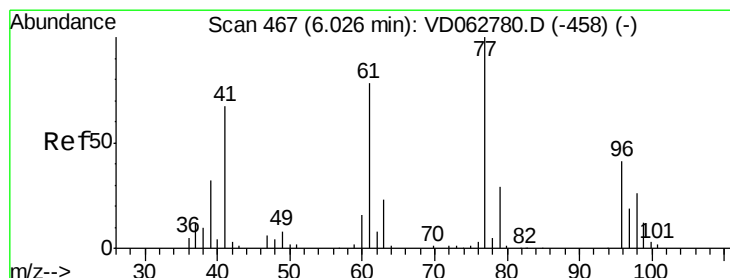
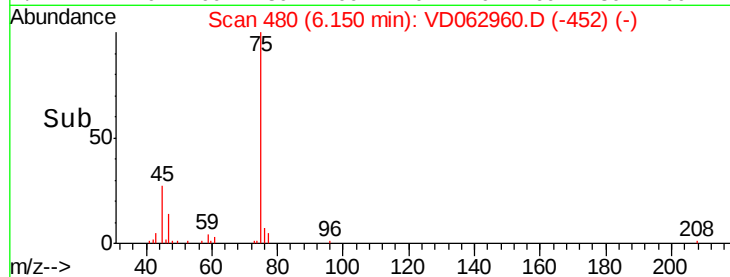
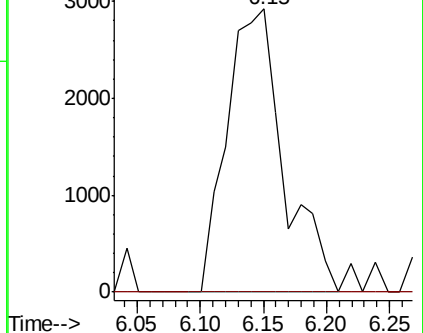
43 100

72 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.888 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.11 min

Lab File: VD062960.D

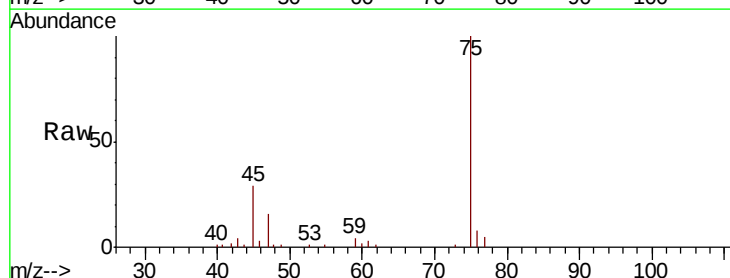
Acq: 28 Jun 2019 12:27

Tgt Ion: 77 Resp: 6773

Ion Ratio Lower Upper

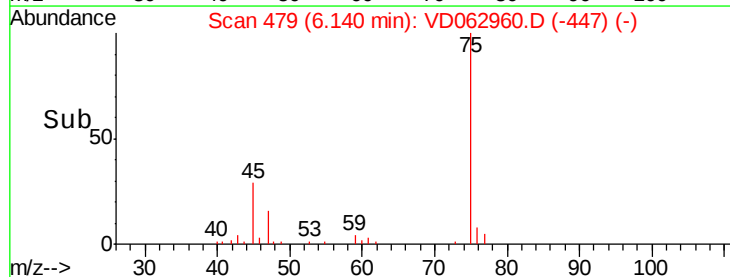
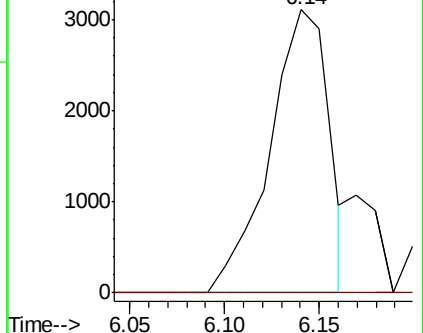
77 100

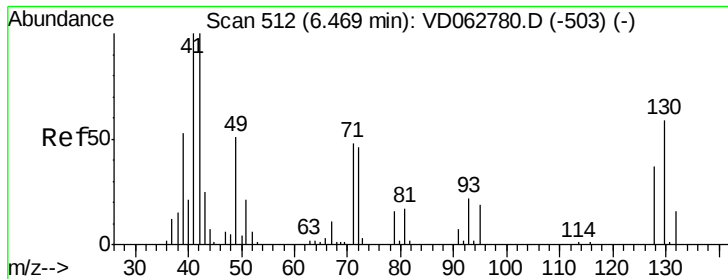
97 0.0 9.5 28.5#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 1.102 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.01 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

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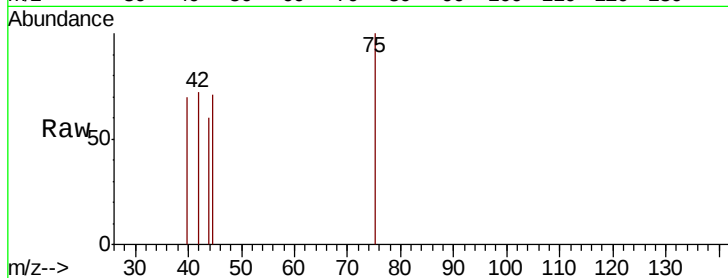
Tot Ion: 42 Resp: 231

Ion Ratio Lower Upper

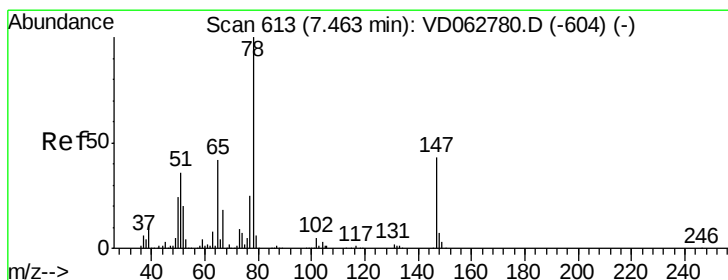
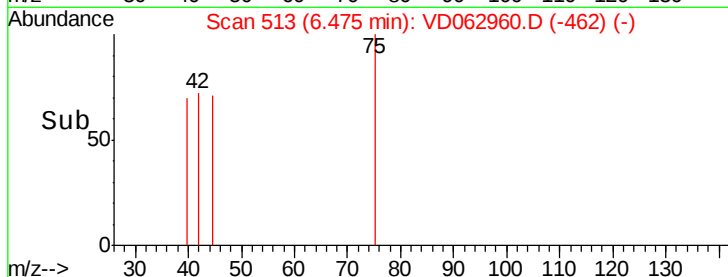
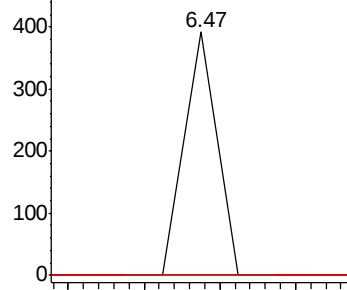
42 100

72 0.0 35.0 52.6#

71 0.0 33.3 49.9#



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: 92.278 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.03 min

Lab File: VD062960.D

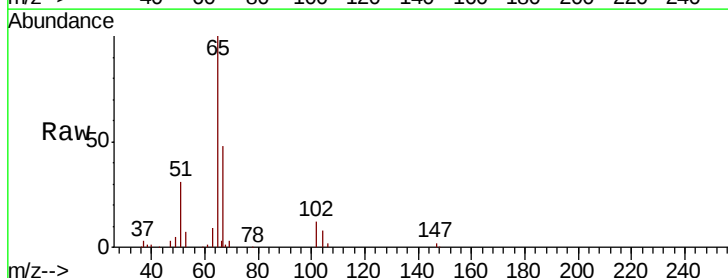
Acq: 28 Jun 2019 12:27

Tgt Ion: 65 Resp: 218606

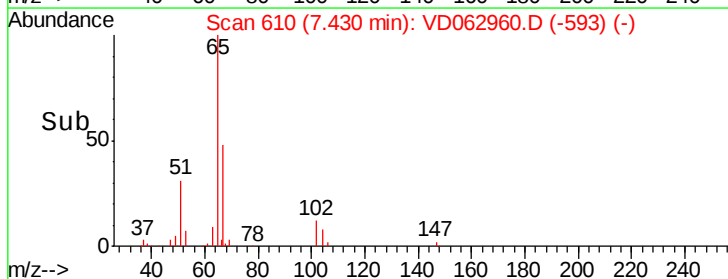
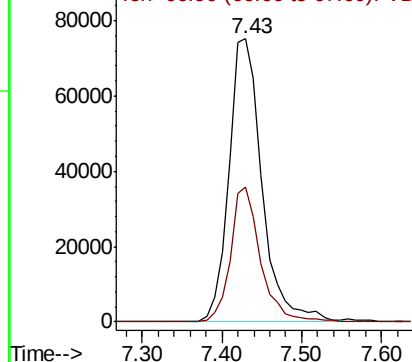
Ion Ratio Lower Upper

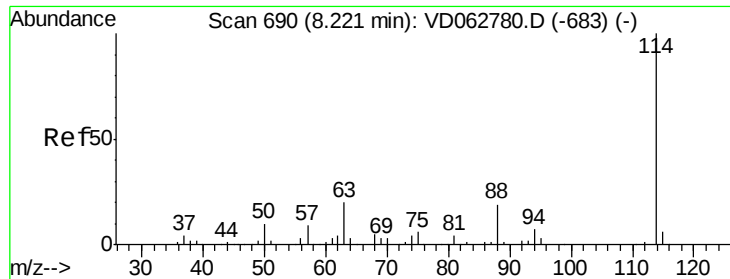
65 100

67 47.5 0.0 87.4



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

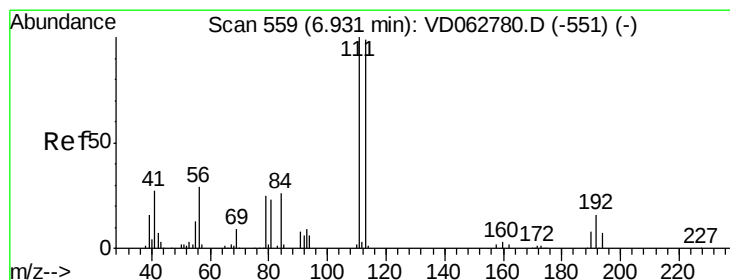
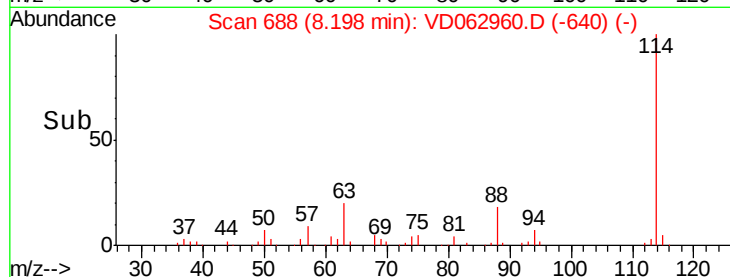
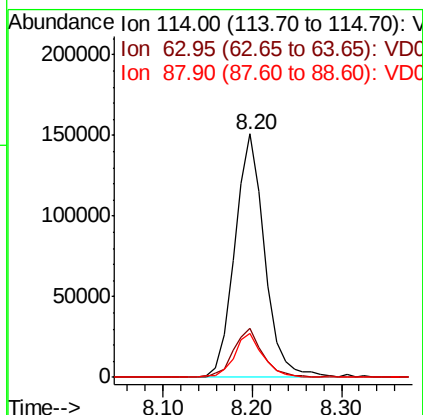
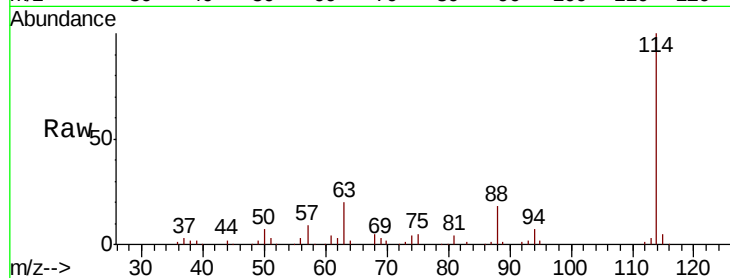




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.20 min Scan# 688
Delta R.T. -0.02 min
Lab File: VD062960.D
Acq: 28 Jun 2019 12:27

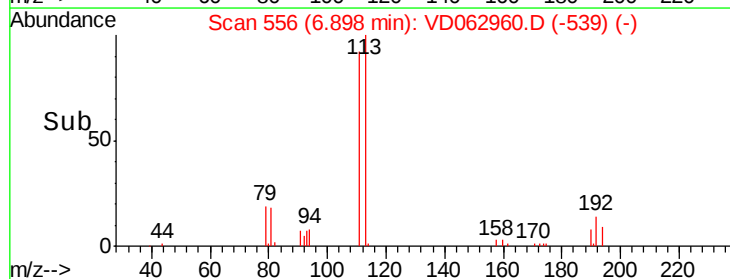
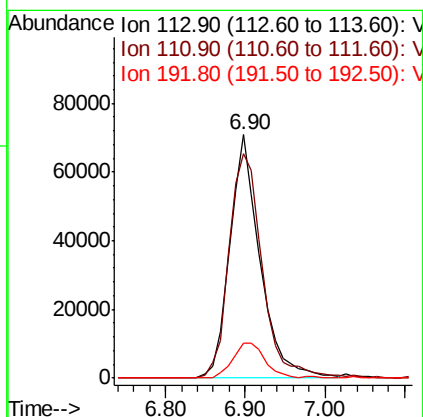
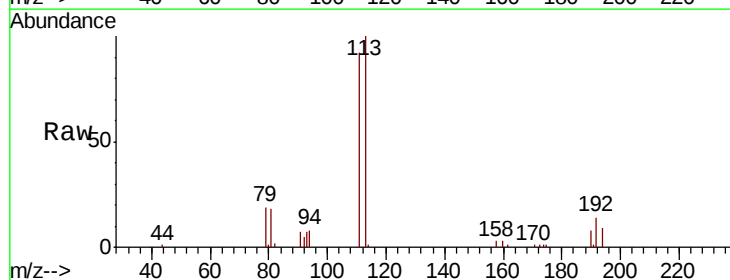
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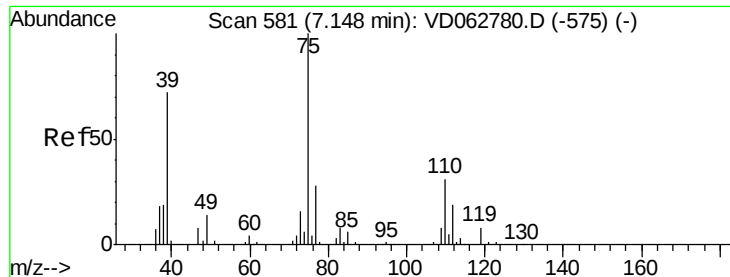
Tot Ion:114 Resp: 351995
Ion Ratio Lower Upper
114 100
63 20.0 0.0 40.0
88 17.8 0.0 38.8



#35
Dibromofluoromethane
Concen: 63.202 ug/l
RT: 6.90 min Scan# 556
Delta R.T. -0.03 min
Lab File: VD062960.D
Acq: 28 Jun 2019 12:27

Tgt Ion:113 Resp: 187583
Ion Ratio Lower Upper
113 100
111 92.4 81.2 121.8
192 14.3 12.9 19.3





#36

1,1-Dichloropropene

Concen: 5.129 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.13 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

SB-01-4.0-4.5RE

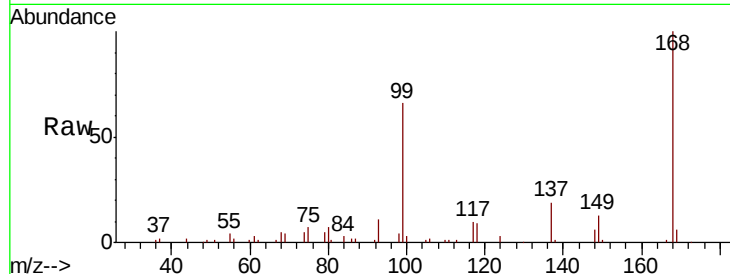
Tot Ion: 75 Resp: 17089

Ion Ratio Lower Upper

75 100

110 18.9 15.0 45.1

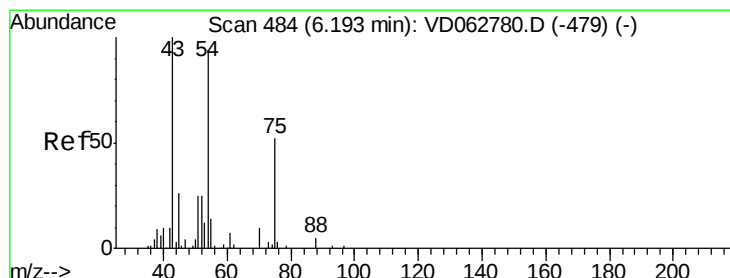
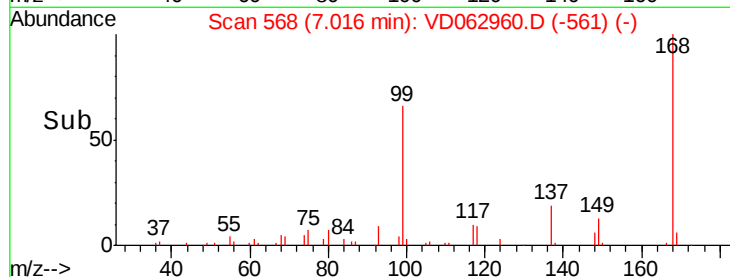
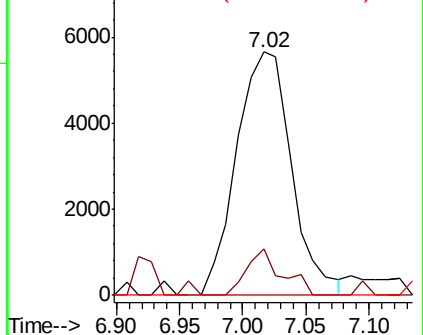
77 0.0 22.2 33.2#



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: 5.555 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.04 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

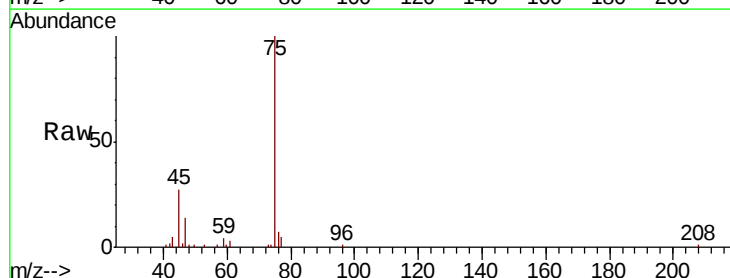
Tgt Ion: 43 Resp: 9146

Ion Ratio Lower Upper

43 100

61 65.5 11.6 17.4#

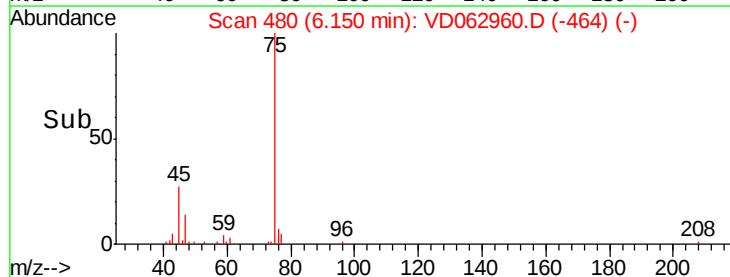
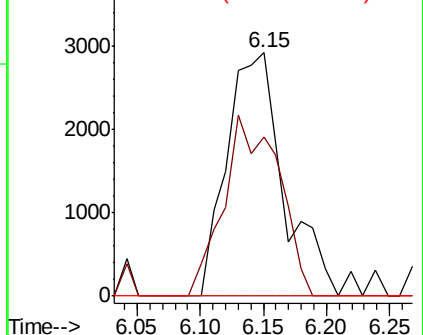
70 0.0 6.4 9.6#

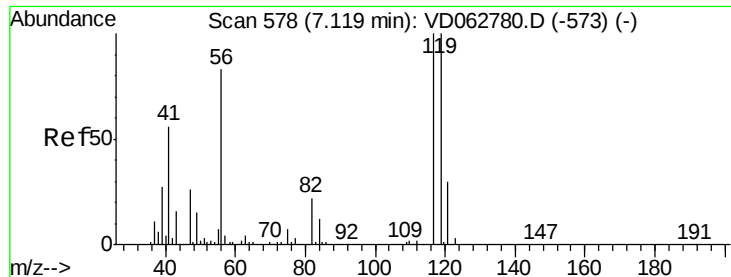


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 4.191 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.10 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

SB-01-4.0-4.5RE

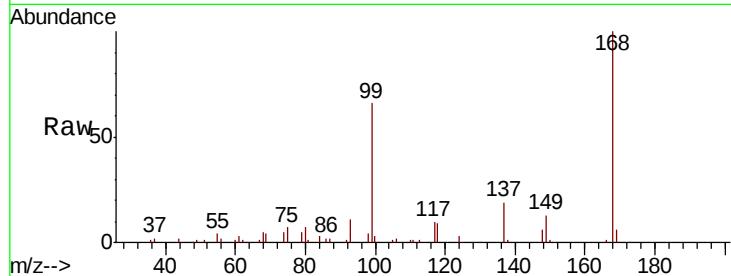
Tot Ion:117 Resp: 21003

Ion Ratio Lower Upper

117 100

119 0.0 75.4 113.2#

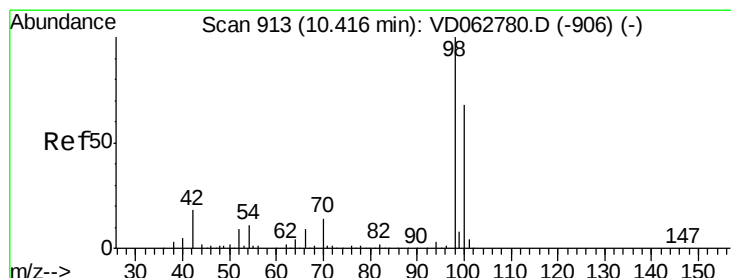
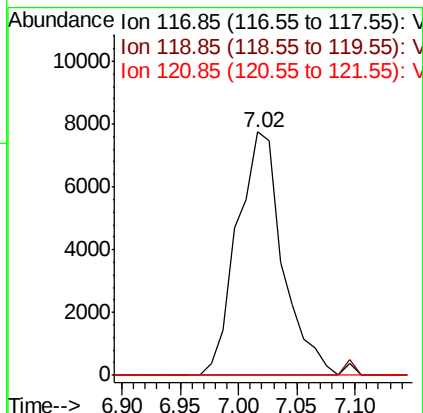
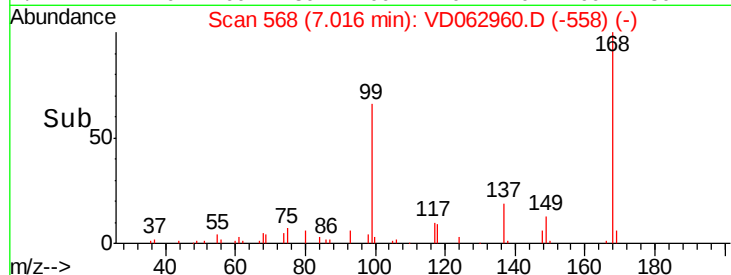
121 0.0 22.3 33.5#



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: 40.733 ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.02 min

Lab File: VD062960.D

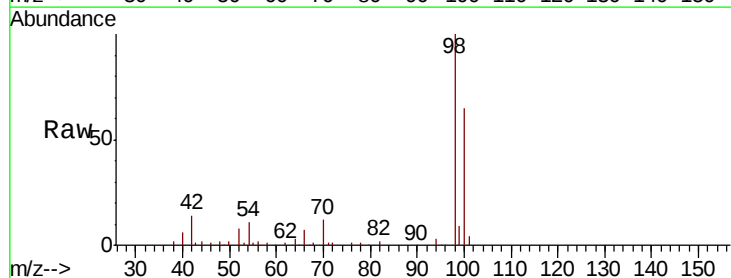
Acq: 28 Jun 2019 12:27

Tgt Ion: 98 Resp: 263124

Ion Ratio Lower Upper

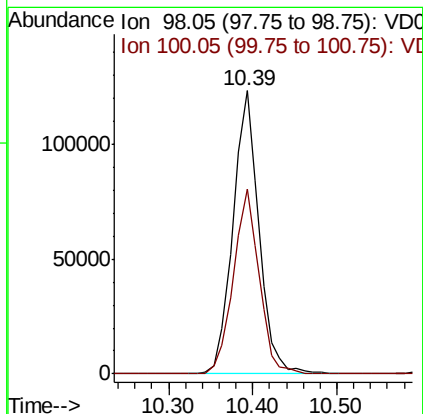
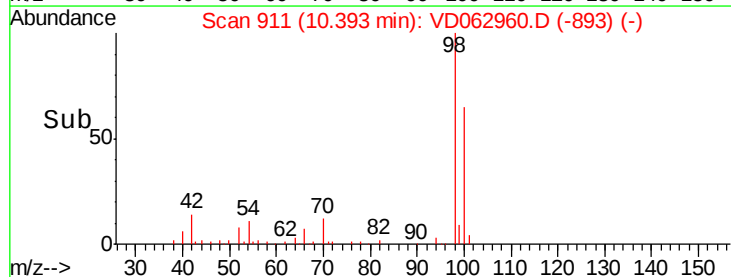
98 100

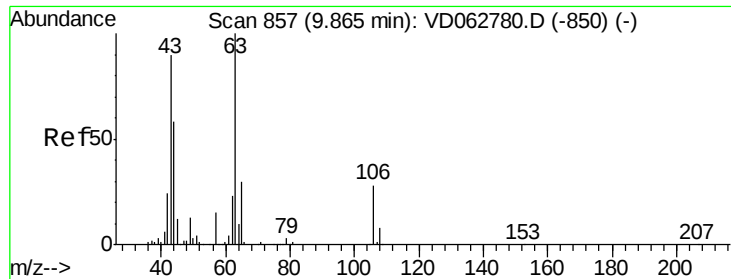
100 65.1 54.7 82.1



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: 3.205 ug/l

RT: 9.83 min Scan# 854

Delta R.T. -0.03 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

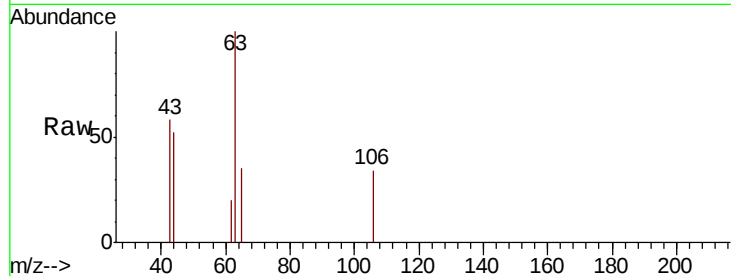
SB-01-4.0-4.5RE

Tot Ion: 63 Resp: 2716

Ion Ratio Lower Upper

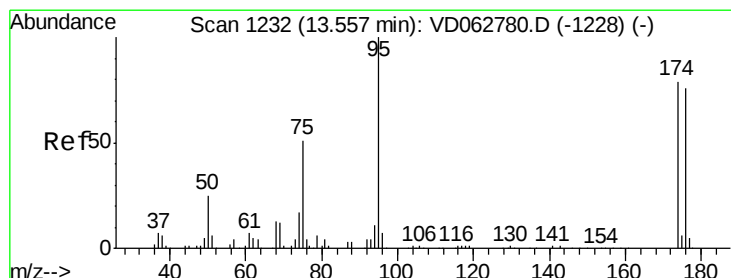
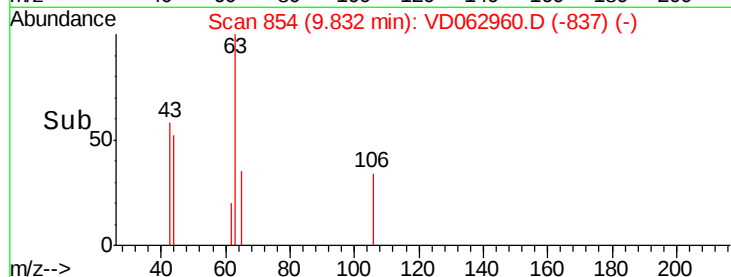
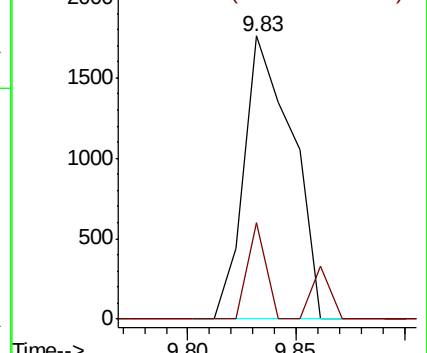
63 100

106 34.2 22.1 33.1#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V



#62

4-Bromofluorobenzene

Concen: 36.086 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

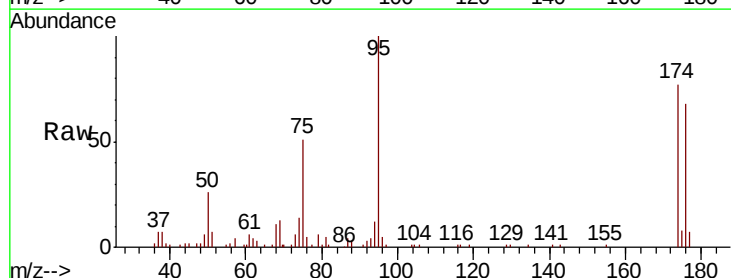
Tgt Ion: 95 Resp: 105995

Ion Ratio Lower Upper

95 100

174 77.0 0.0 158.0

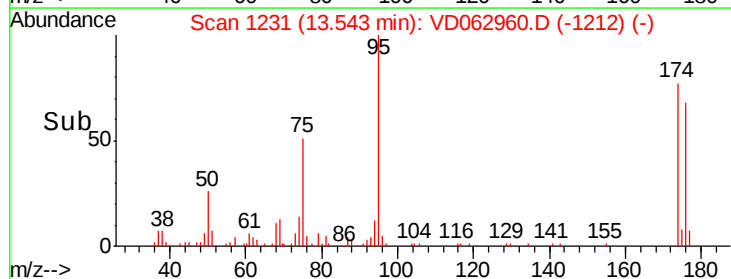
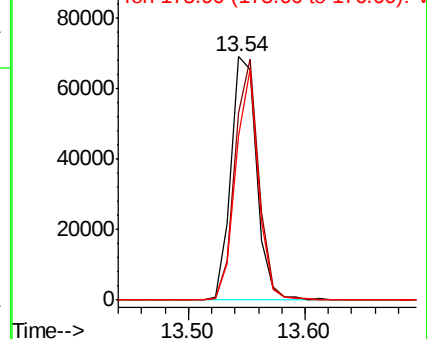
176 67.6 0.0 151.6

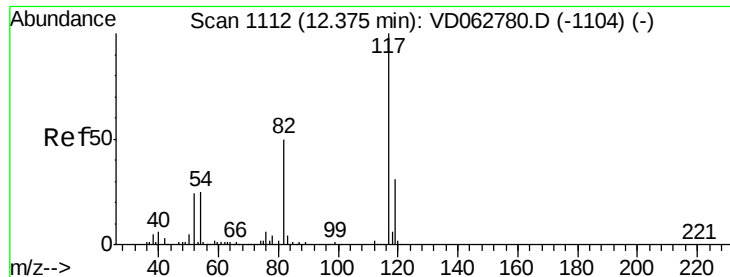


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

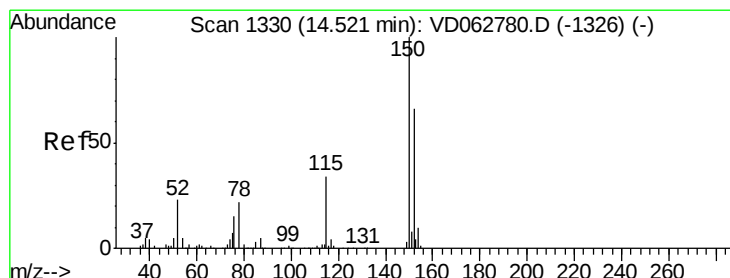
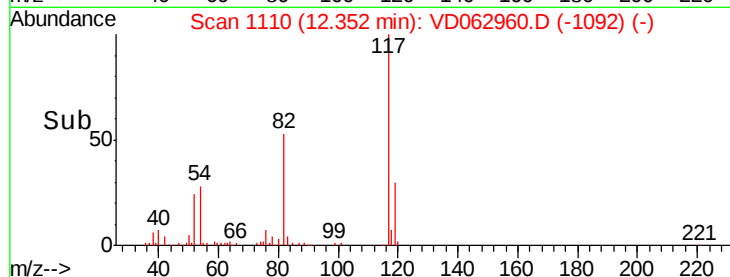
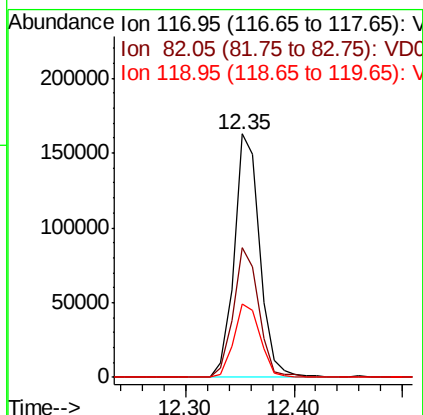
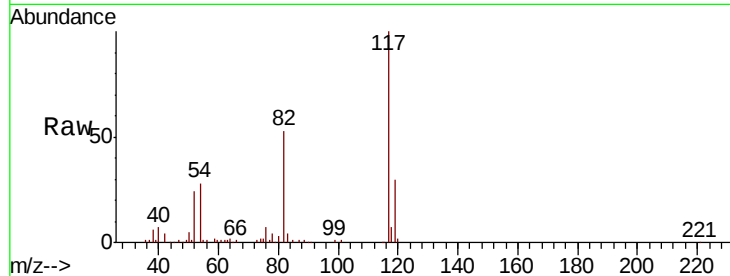




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VD062960.D
Acq: 28 Jun 2019 12:27

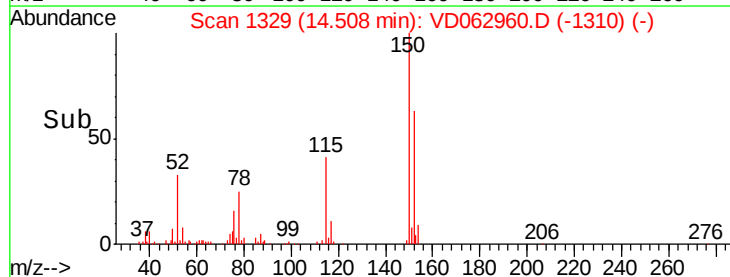
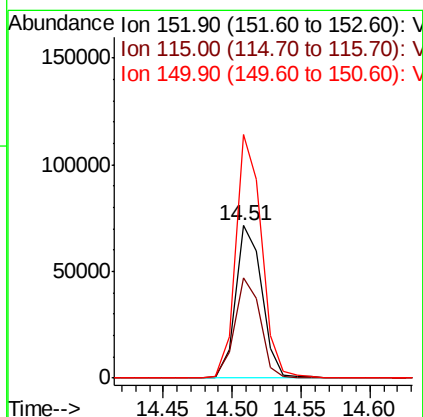
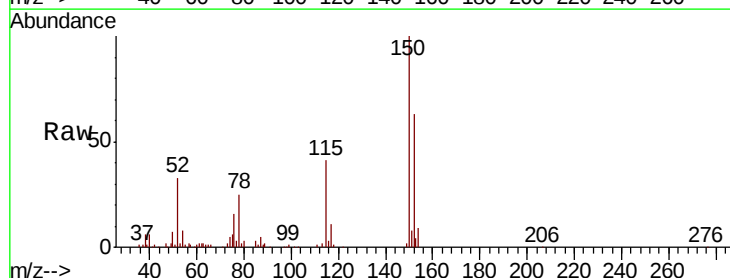
Instrument :
MSVOA_D
ClientSampleId :
SB-01-4.0-4.5RE

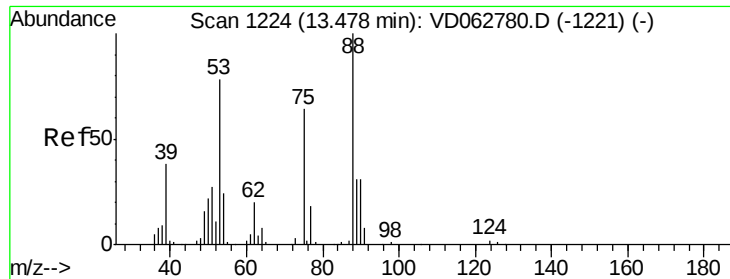
Tot Ion:117 Resp: 266194
Ion Ratio Lower Upper
117 100
82 53.3 40.4 60.6
119 29.9 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062960.D
Acq: 28 Jun 2019 12:27

Tgt Ion:152 Resp: 95704
Ion Ratio Lower Upper
152 100
115 65.7 29.2 87.6
150 159.7 0.0 305.8





#81

trans-1,4-Dichloro-2-butene

Concen: 166.380 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

SB-01-4.0-4.5RE

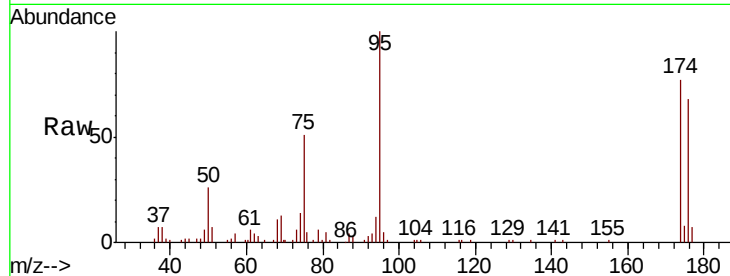
Tot Ion: 75 Resp: 48177

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

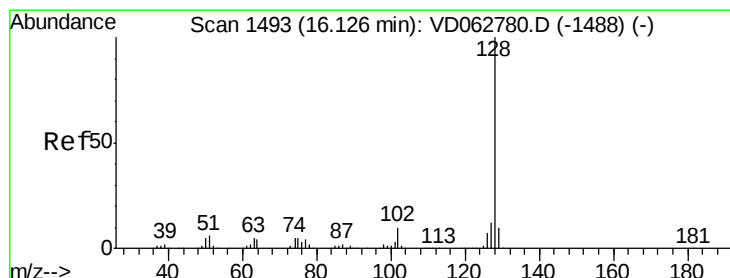
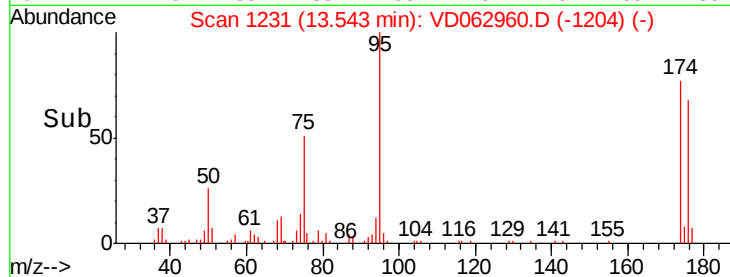
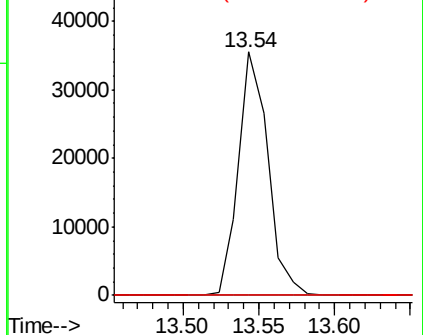
89 0.0 39.4 59.2#



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



#95

Naphthalene

Concen: 1.135 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD062960.D

Acq: 28 Jun 2019 12:27

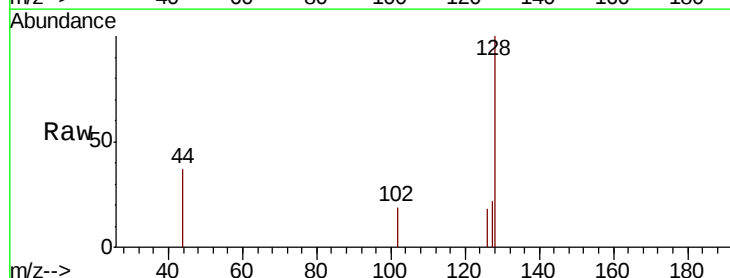
Tgt Ion:128 Resp: 3145

Ion Ratio Lower Upper

128 100

127 22.3 9.7 14.5#

129 0.0 8.3 12.5#



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

