

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051119\
 Data File : VD062235.D
 Acq On : 11 May 2019 14:13
 Operator : FY/SY
 Sample : K2717-19RE
 Misc : 5.12g/5mL/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS004-0002-01RE

Quant Time: May 11 22:21:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	389969	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	466229	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	231093	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	44062	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	186701	51.52	ug/l	0.02
Spiked Amount			Recovery	=	103.04%	
35) Dibromofluoromethane	6.93	113	223311	57.73	ug/l	0.03
Spiked Amount			Recovery	=	115.46%	
50) Toluene-d8	10.41	98	375584	40.27	ug/l	0.01
Spiked Amount			Recovery	=	80.54%	
62) 4-Bromofluorobenzene	13.55	95	62914	16.80	ug/l	0.00
Spiked Amount			Recovery	=	33.60%	

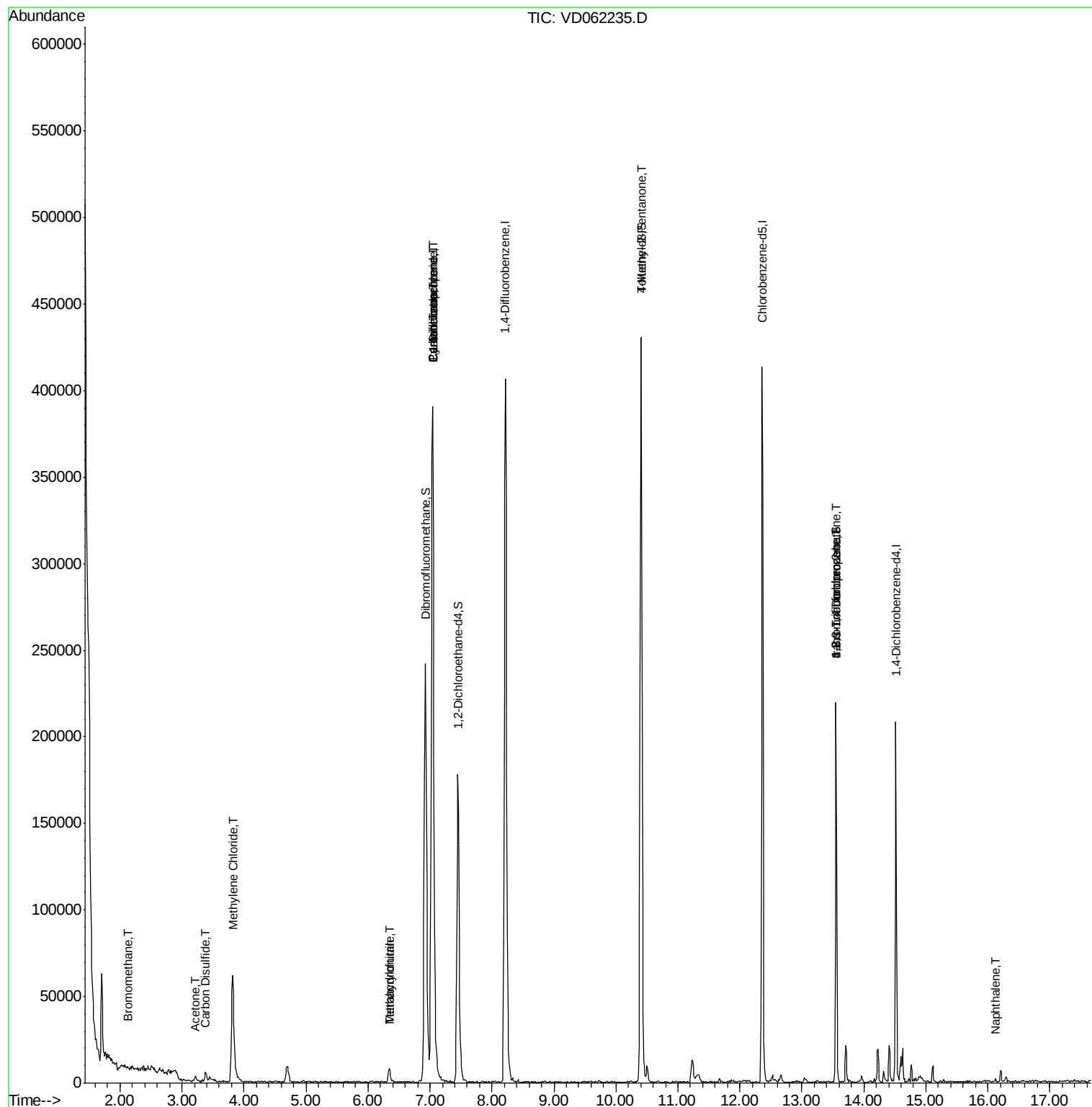
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.12	94	1190	1.917	ug/l #	12
16) Acetone	3.23	43	5655	7.441	ug/l #	84
17) Carbon Disulfide	3.38	76	9625	1.125	ug/l	99
20) Methylene Chloride	3.82	84	43794	13.801	ug/l	94
29) Tetrahydrofuran	6.34	42	1252	3.278	ug/l #	30
31) Cyclohexane	7.05	56	8496	2.234	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	28663	7.498	ug/l #	48
38) Carbon Tetrachloride	7.05	117	37379	7.065	ug/l #	17
41) Methacrylonitrile	6.35	41	5562	2.808	ug/l #	77
51) 4-Methyl-2-Pentanone	10.40	43	2217	1.500	ug/l #	1
76) 1,2,3-Trichloropropane	13.55	75	19057	36.393	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.55	75	24935	168.677	ug/l #	16
95) Naphthalene	16.12	128	1751	1.549	ug/l #	70

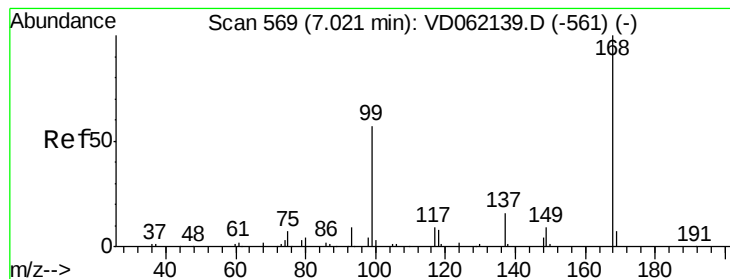
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

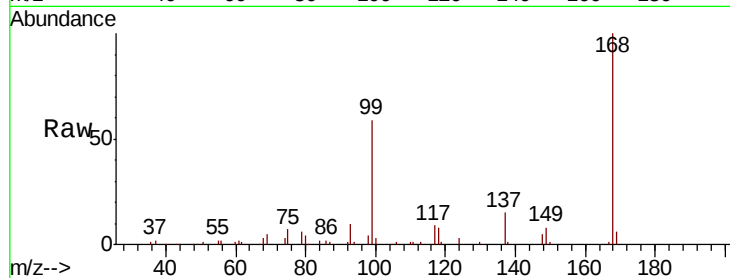
P026-SS004-0002-01RE

Tot Ion:168 Resp: 389969

Ion Ratio Lower Upper

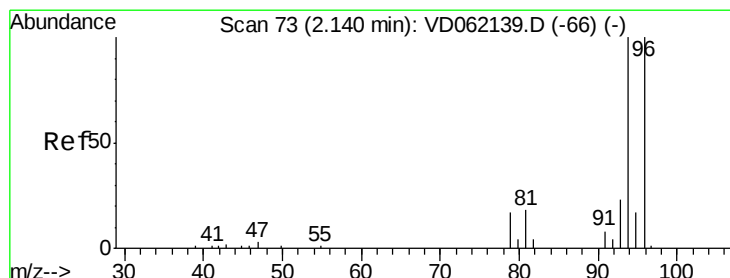
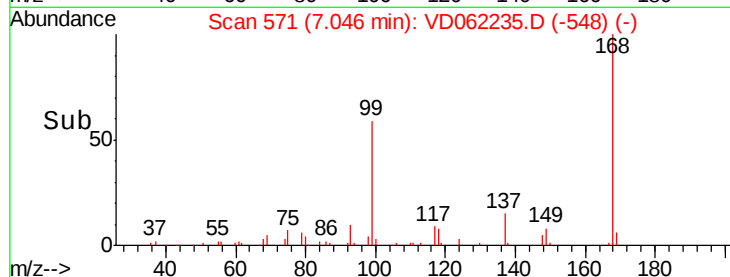
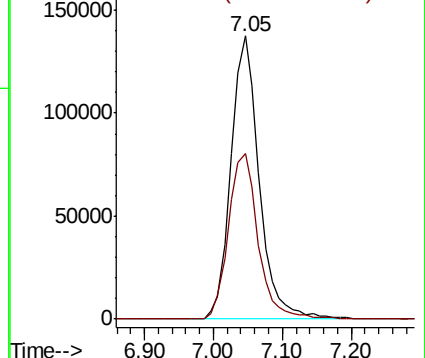
168 100

99 58.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.917 ug/l

RT: 2.12 min Scan# 70

Delta R.T. -0.02 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

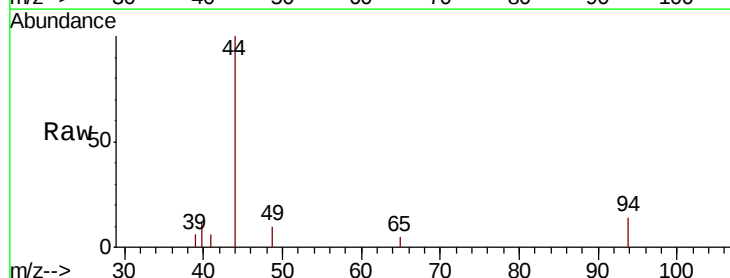
Tgt Ion: 94 Resp: 1190

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

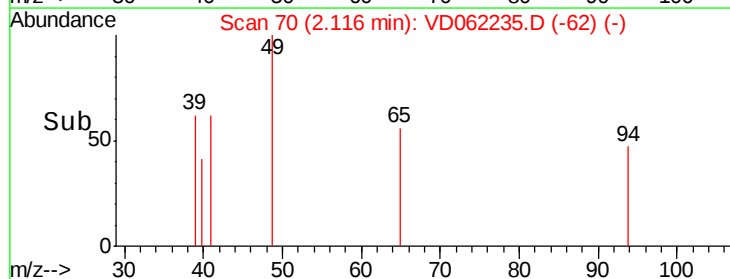
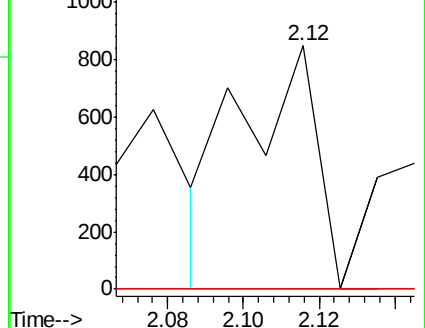
93 0.0 18.5 27.7#

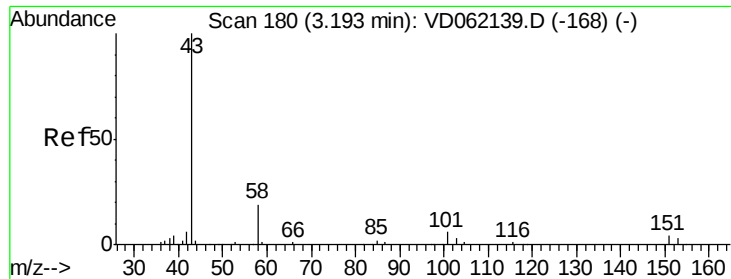


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 7.441 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

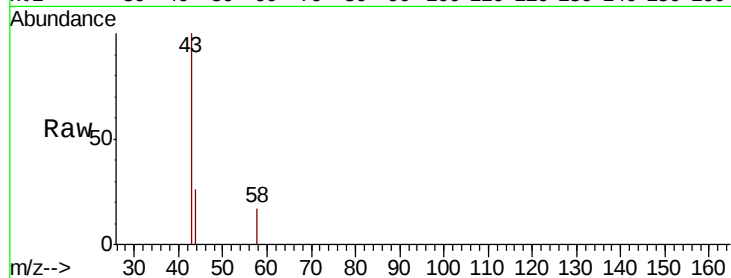
P026-SS004-0002-01RE

Tot Ion: 43 Resp: 5655

Ion Ratio Lower Upper

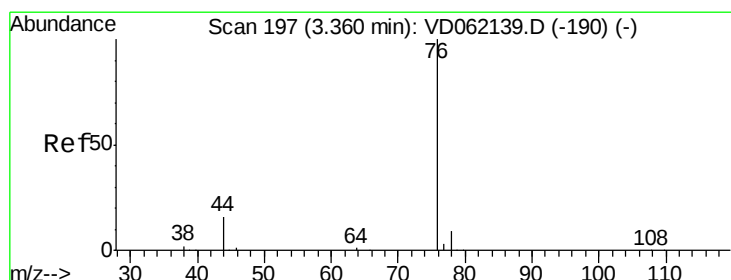
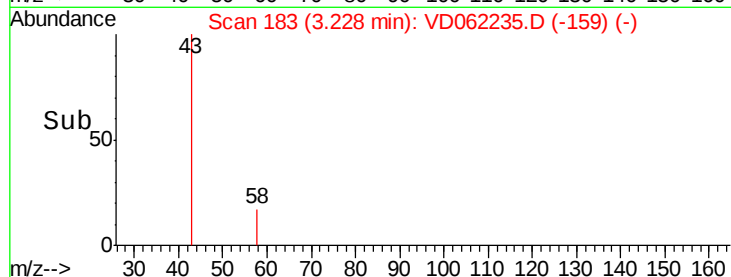
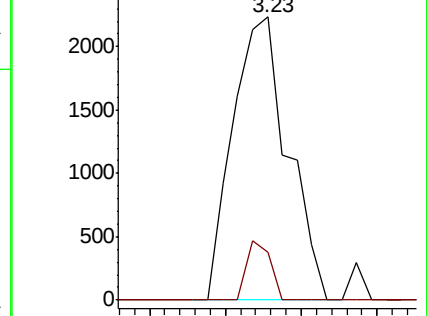
43 100

58 17.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 1.125 ug/l

RT: 3.38 min Scan# 198

Delta R.T. 0.01 min

Lab File: VD062235.D

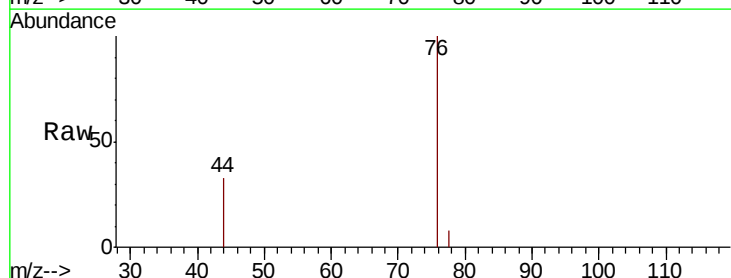
Acq: 11 May 2019 14:13

Tgt Ion: 76 Resp: 9625

Ion Ratio Lower Upper

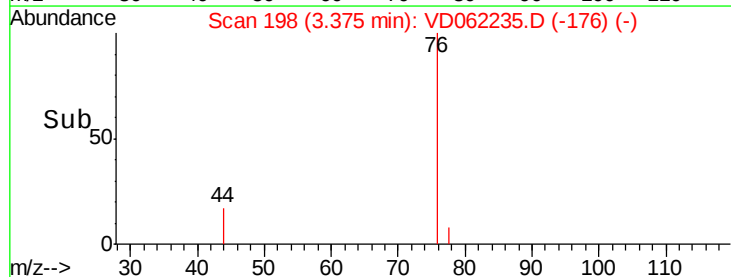
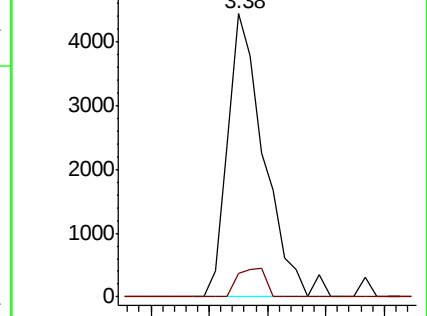
76 100

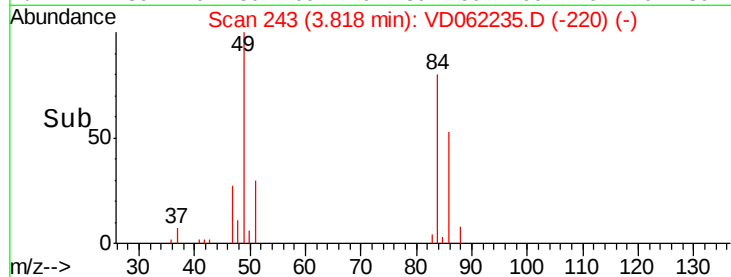
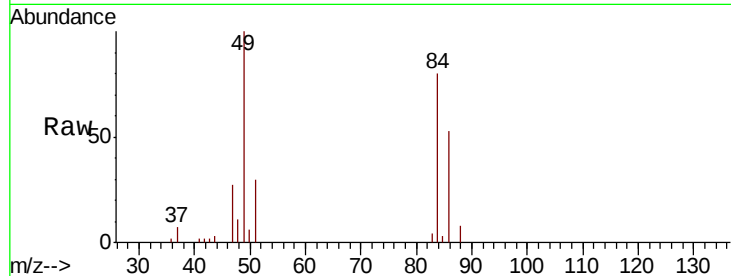
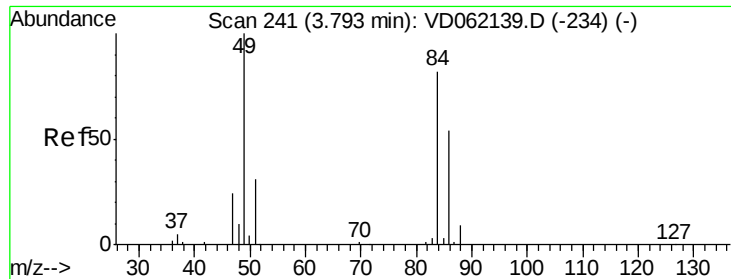
78 8.5 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

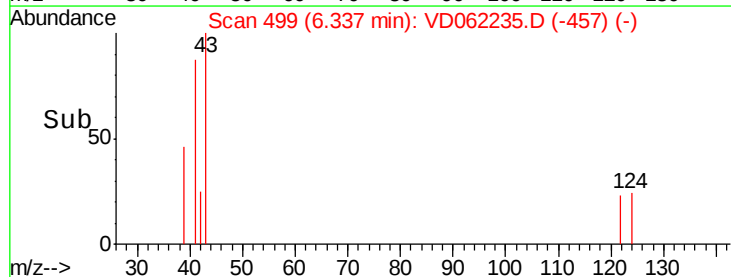
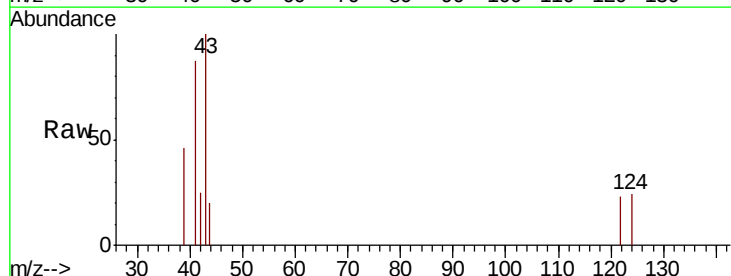
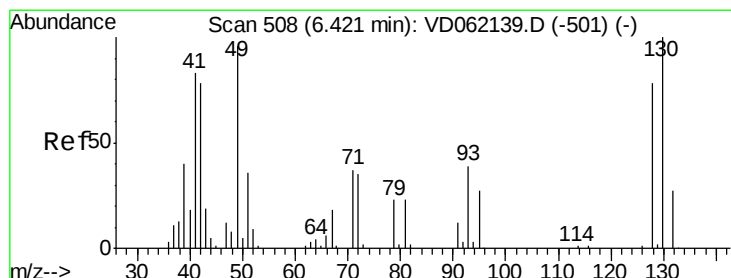
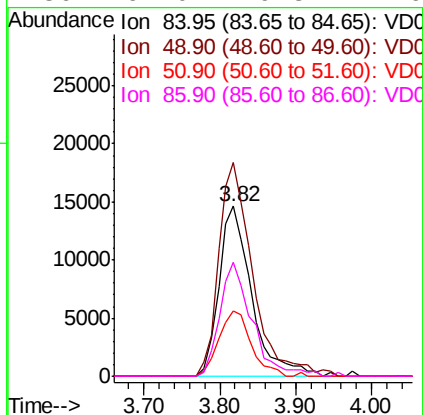




#20
Methvlene Chloride
Concen: 13.801 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD062235.D
Acq: 11 May 2019 14:13

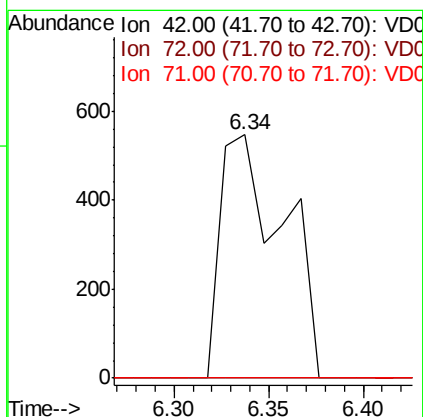
Instrument :
MSVOA_D
ClientSampleId :
P026-SS004-0002-01RE

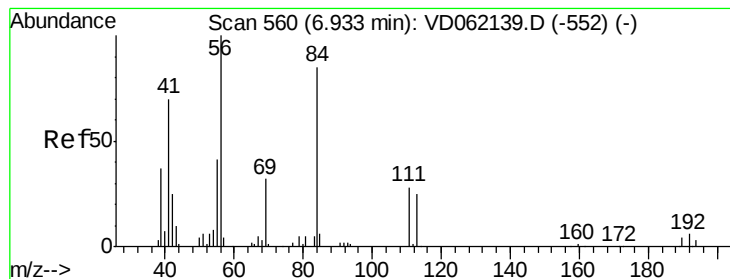
Tot Ion: 84 Resp: 43794
Ion Ratio Lower Upper
84 100
49 125.7 94.0 141.0
51 38.2 29.0 43.4
86 67.0 49.8 74.6



#29
Tetrahydrofuran
Concen: 3.278 ug/l
RT: 6.34 min Scan# 499
Delta R.T. -0.08 min
Lab File: VD062235.D
Acq: 11 May 2019 14:13

Tgt Ion: 42 Resp: 1252
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 36.7 55.1#





#31

Cyclohexane

Concen: 2.234 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

P026-SS004-0002-01RE

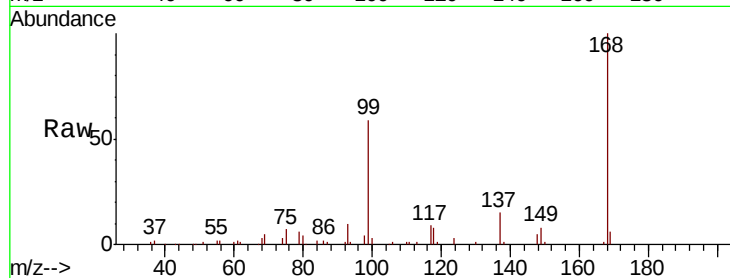
Tot Ion: 56 Resp: 8496

Ion Ratio Lower Upper

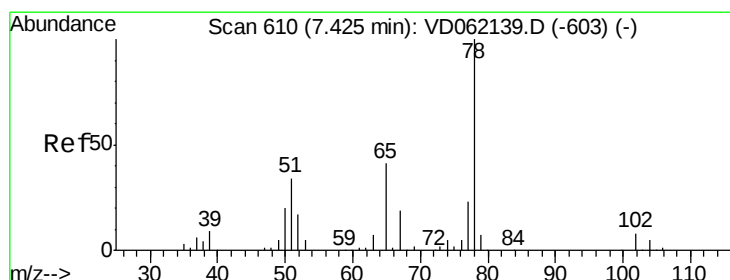
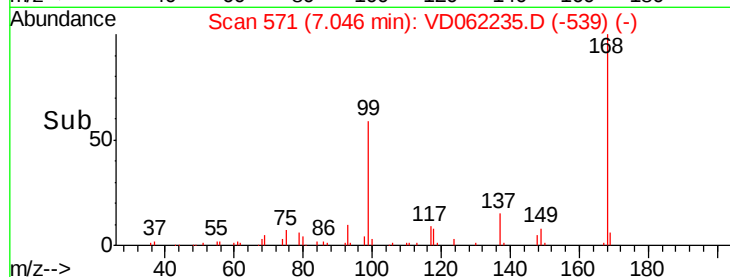
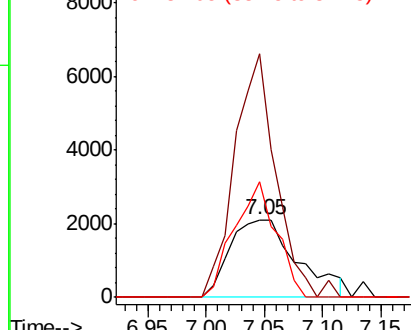
56 100

69 312.9 25.8 38.6#

84 149.4 72.2 108.4#



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: 51.517 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD062235.D

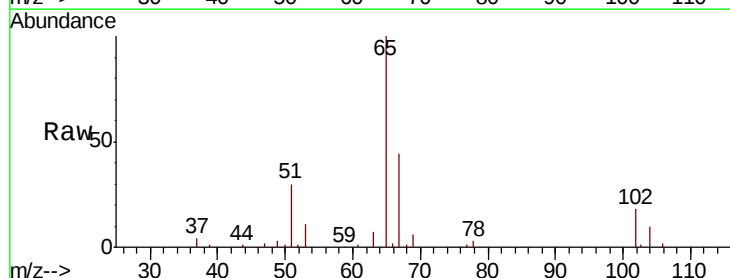
Acq: 11 May 2019 14:13

Tgt Ion: 65 Resp: 186701

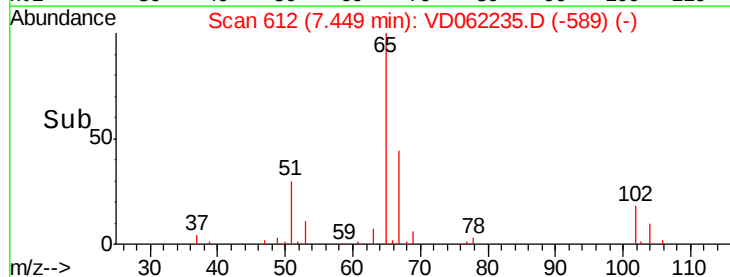
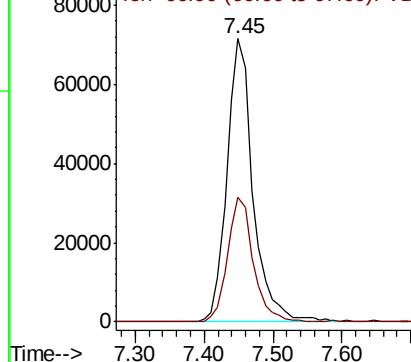
Ion Ratio Lower Upper

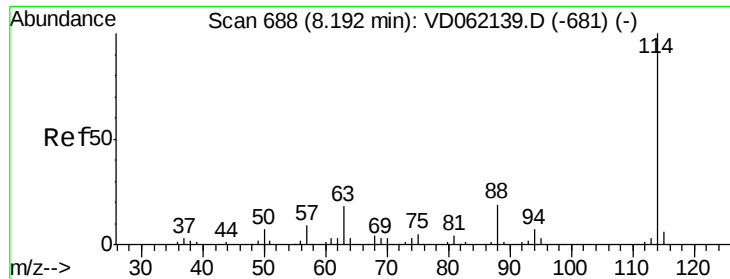
65 100

67 44.2 0.0 98.0



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

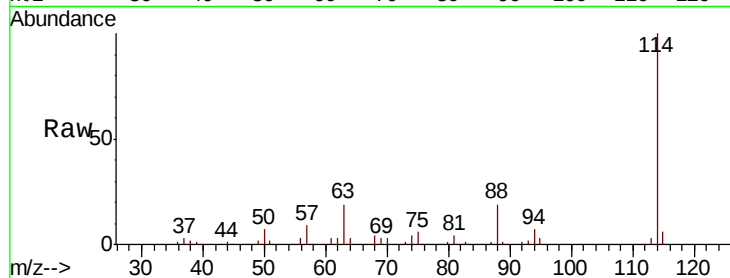




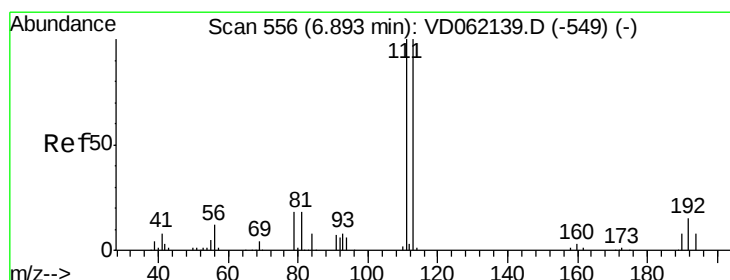
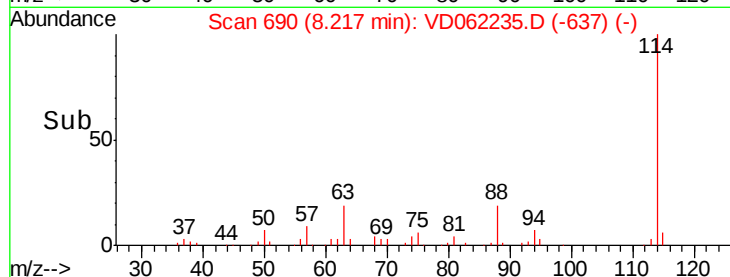
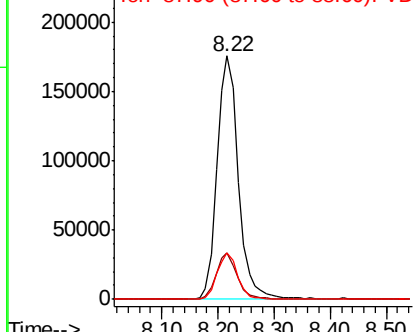
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD062235.D
 Acq: 11 May 2019 14:13

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS004-0002-01RE

Tot Ion:114 Resp: 466229
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 32.4
 88 19.1 0.0 33.6

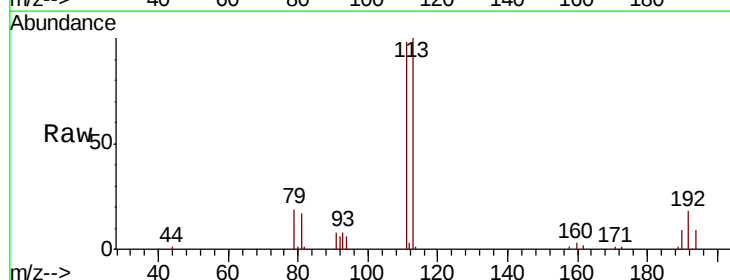


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

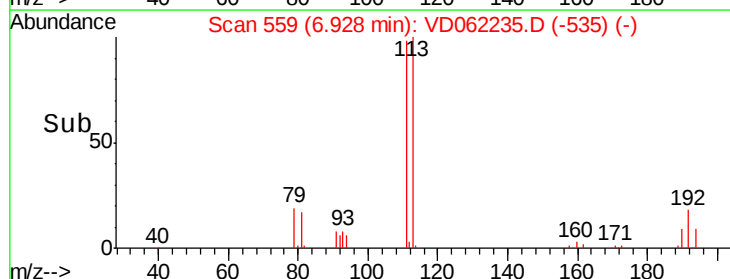
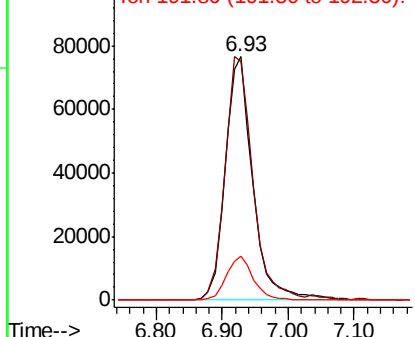


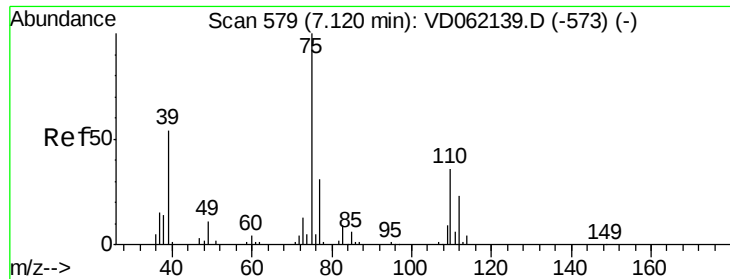
#35
 Dibromofluoromethane
 Concen: 57.728 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.03 min
 Lab File: VD062235.D
 Acq: 11 May 2019 14:13

Tgt Ion:113 Resp: 223311
 Ion Ratio Lower Upper
 113 100
 111 98.0 78.5 117.7
 192 18.1 13.0 19.4



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: 7.498 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

P026-SS004-0002-01RE

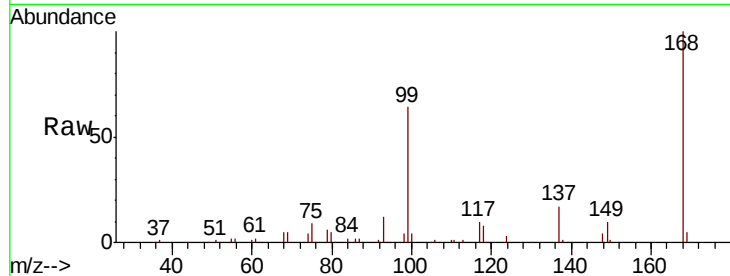
Tot Ion: 75 Resp: 28663

Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.1#

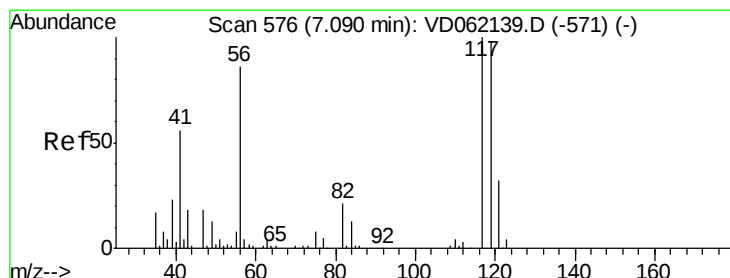
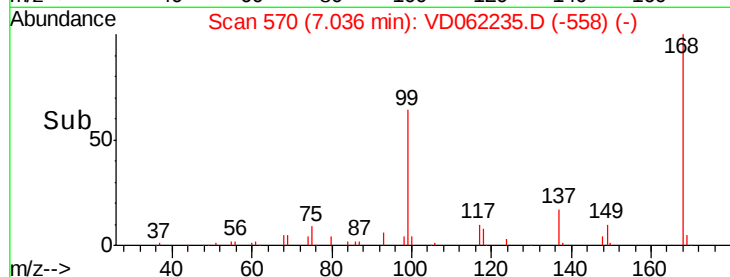
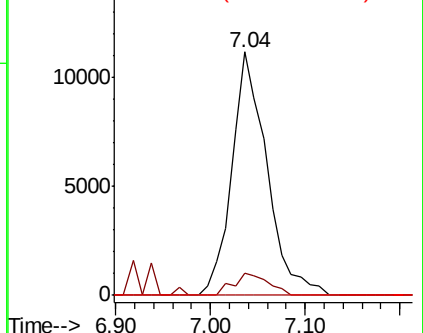
77 0.0 25.6 38.4#



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



#38

Carbon Tetrachloride

Concen: 7.065 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

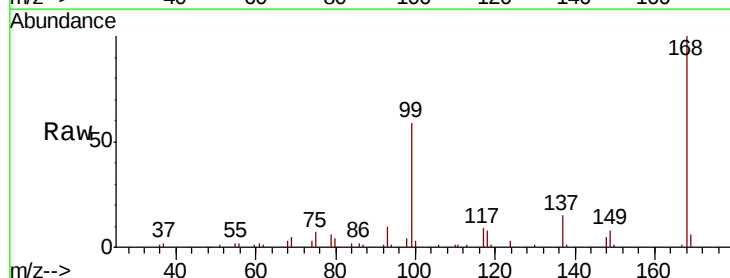
Tgt Ion: 117 Resp: 37379

Ion Ratio Lower Upper

117 100

119 5.9 75.8 113.8#

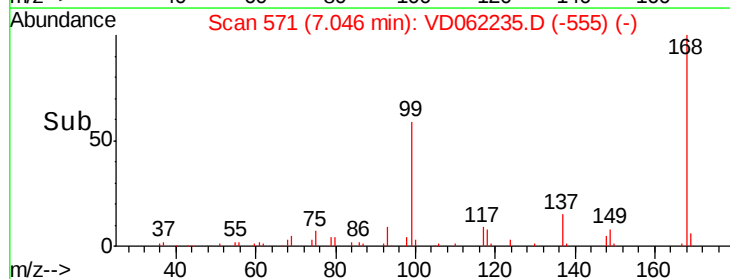
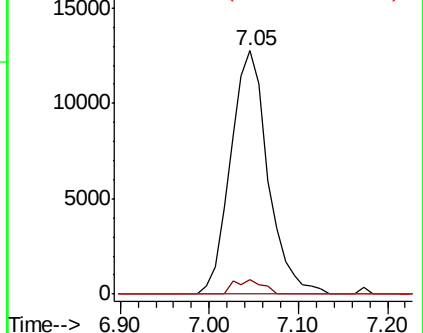
121 0.0 25.9 38.9#

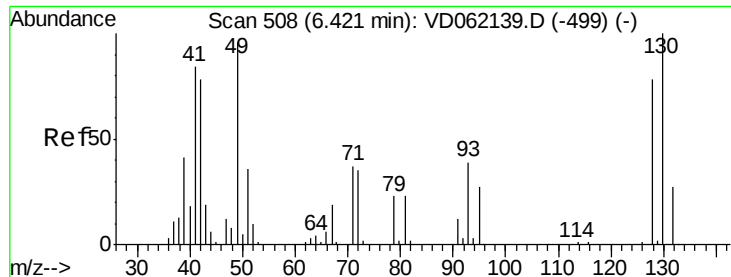


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC

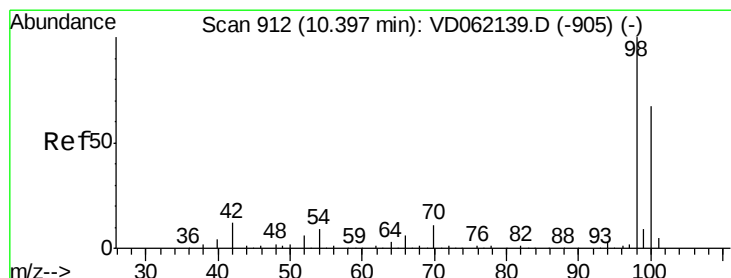
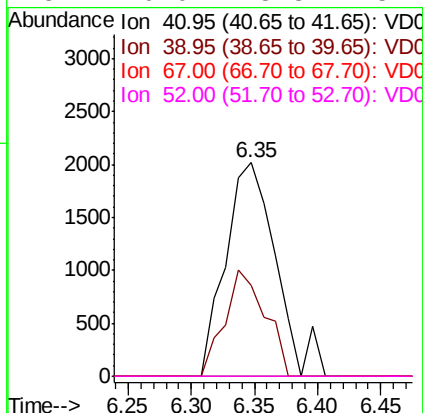
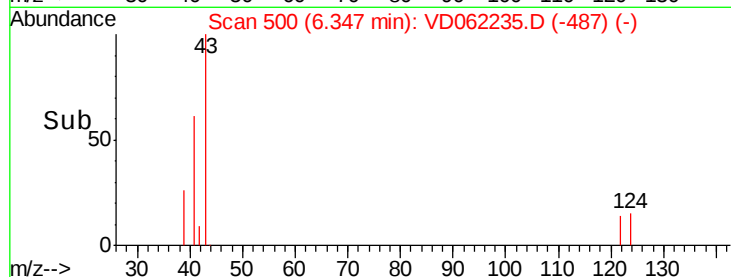
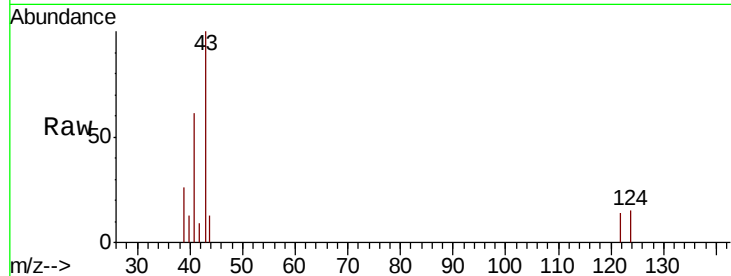




#41
Methacrylonitrile
Concen: 2.808 ug/l
RT: 6.35 min Scan# 500
Delta R.T. -0.07 min
Lab File: VD062235.D
Acq: 11 May 2019 14:13

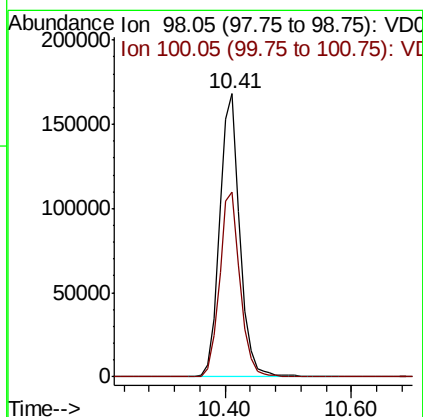
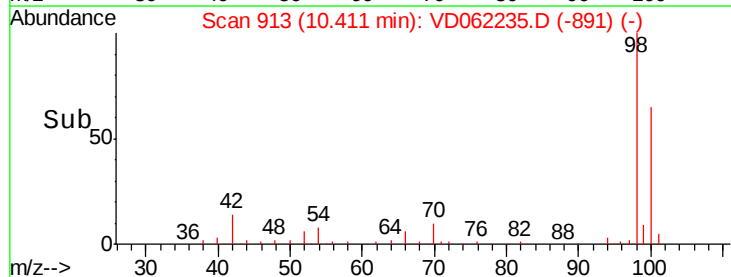
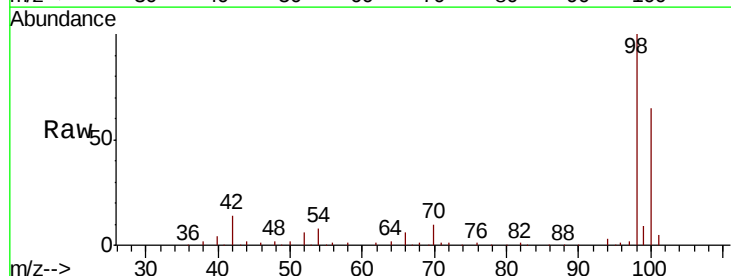
Instrument :
MSVOA_D
ClientSampleId :
P026-SS004-0002-01RE

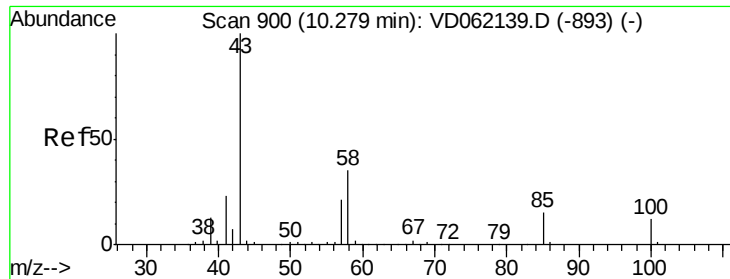
Tot Ion: 41 Resp: 5562
Ion Ratio Lower Upper
41 100
39 42.6 34.1 51.1
67 0.0 23.8 35.6#
52 0.0 8.8 13.2#



#50
Toluene-d8
Concen: 40.269 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD062235.D
Acq: 11 May 2019 14:13

Tgt Ion: 98 Resp: 375584
Ion Ratio Lower Upper
98 100
100 65.2 53.8 80.8





#51

4-Methyl-2-Pentanone

Concen: 1.500 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.12 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

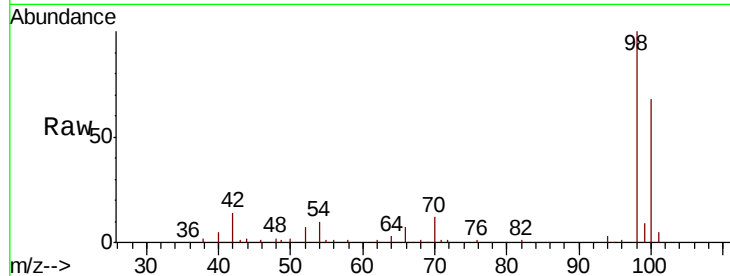
P026-SS004-0002-01RE

Tot Ion: 43 Resp: 2217

Ion Ratio Lower Upper

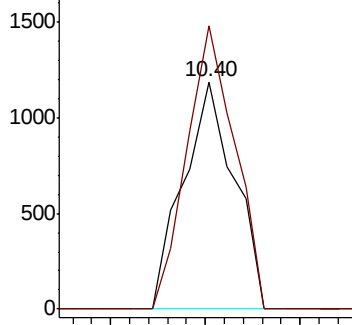
43 100

58 124.6 30.4 45.6#

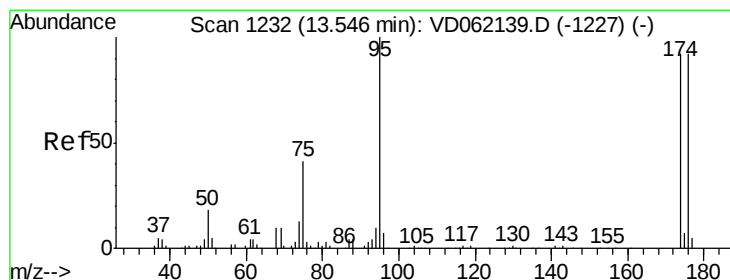
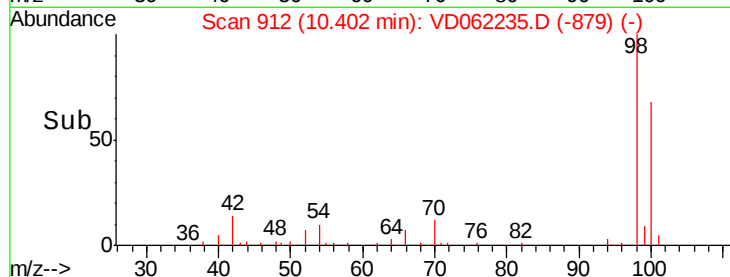


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#62

4-Bromofluorobenzene

Concen: 16.798 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

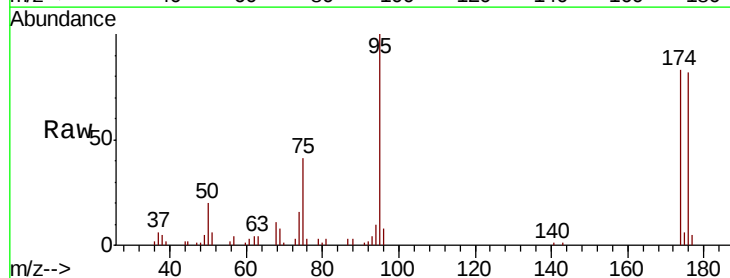
Tgt Ion: 95 Resp: 62914

Ion Ratio Lower Upper

95 100

174 83.2 0.0 181.8

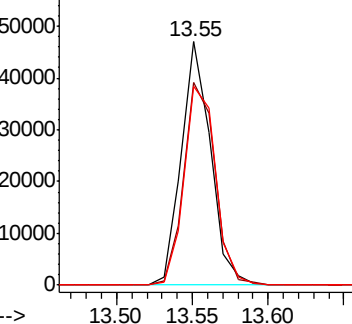
176 81.5 0.0 174.4



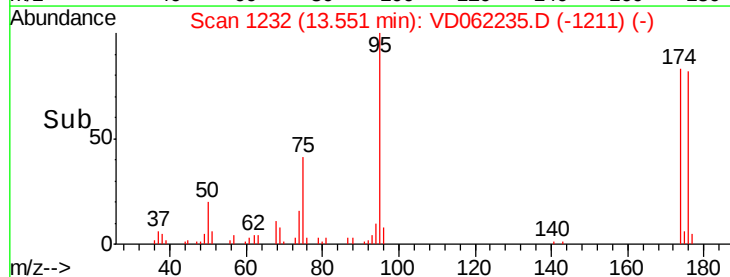
Abundance Ion 95.00 (94.70 to 95.70): VDC

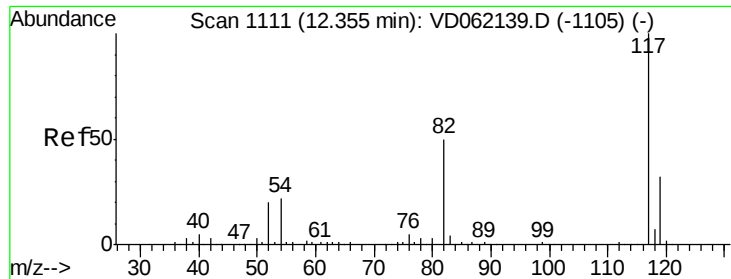
Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



Time-->

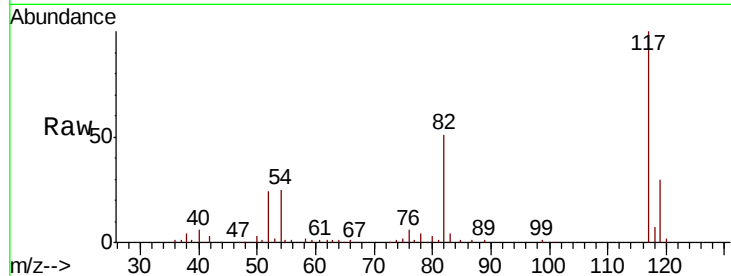




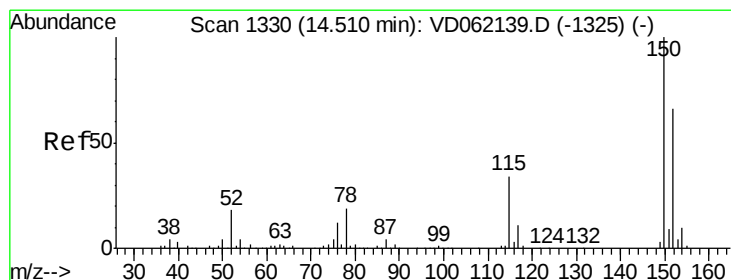
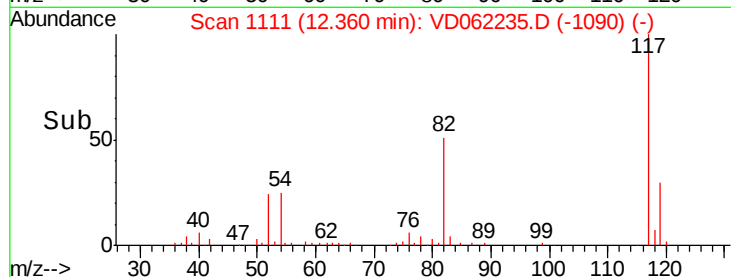
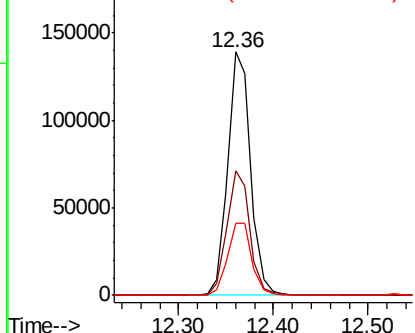
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD062235.D
Acq: 11 May 2019 14:13

Instrument :
MSVOA_D
ClientSampleId :
P026-SS004-0002-01RE

Tot Ion:117 Resp: 231093
Ion Ratio Lower Upper
117 100
82 51.3 36.2 54.2
119 29.8 26.2 39.4

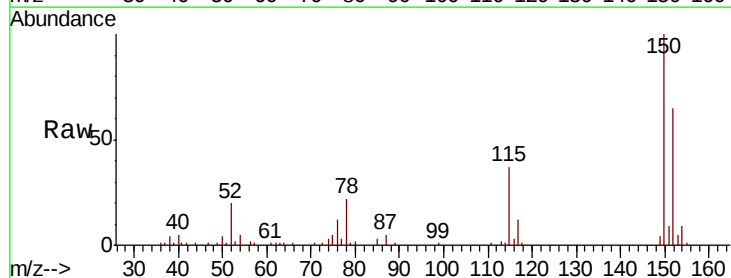


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

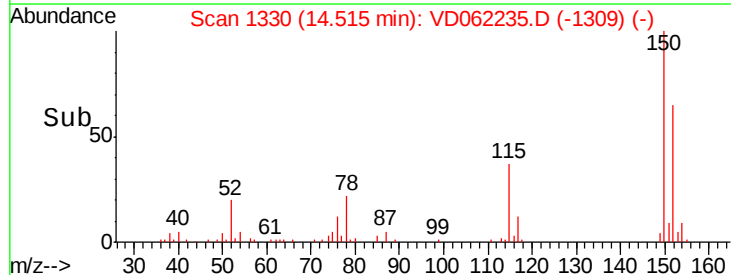
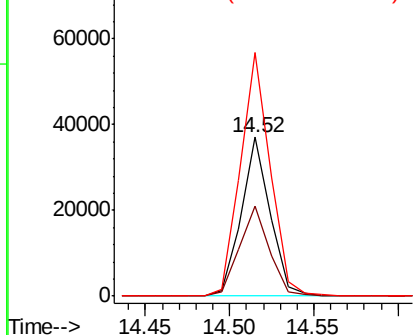


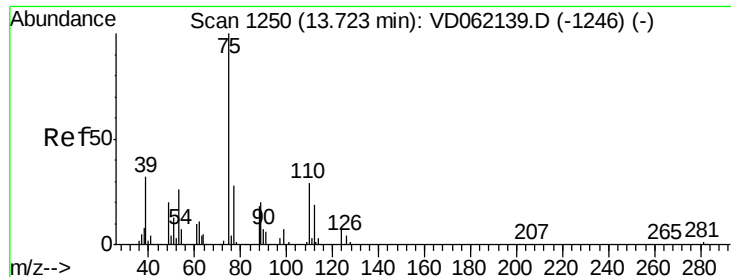
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD062235.D
Acq: 11 May 2019 14:13

Tgt Ion:152 Resp: 44062
Ion Ratio Lower Upper
152 100
115 56.8 30.9 92.7
150 153.3 0.0 314.8



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: 36.393 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

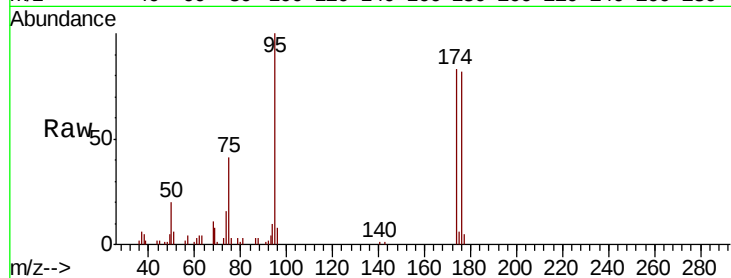
P026-SS004-0002-01RE

Tot Ion: 75 Resp: 19057

Ion Ratio Lower Upper

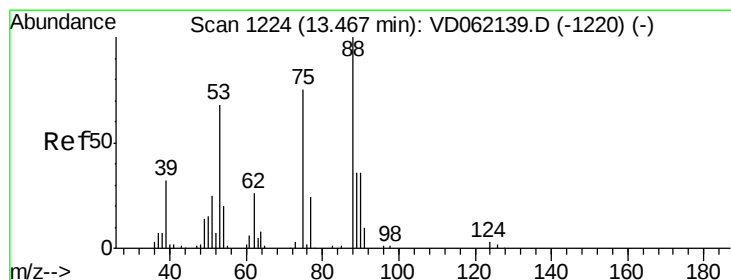
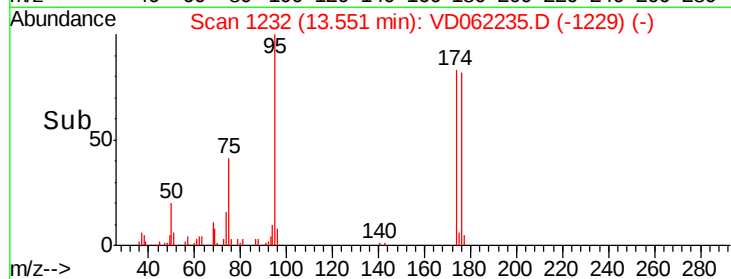
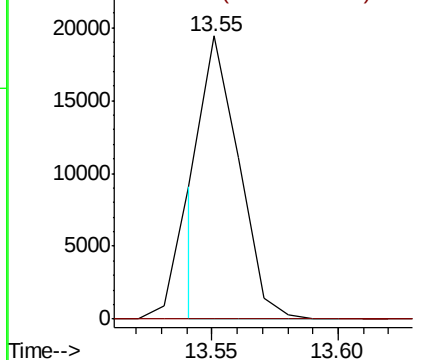
75 100

77 0.0 16.4 49.4#



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: 168.677 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062235.D

Acq: 11 May 2019 14:13

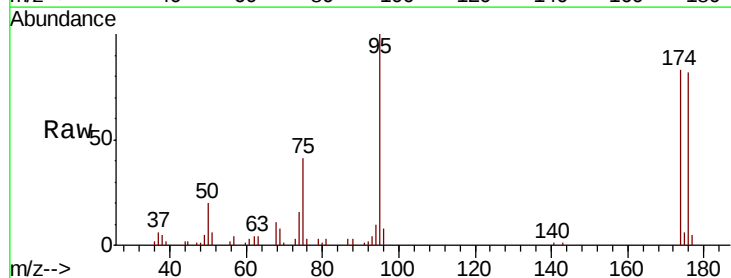
Tgt Ion: 75 Resp: 24935

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

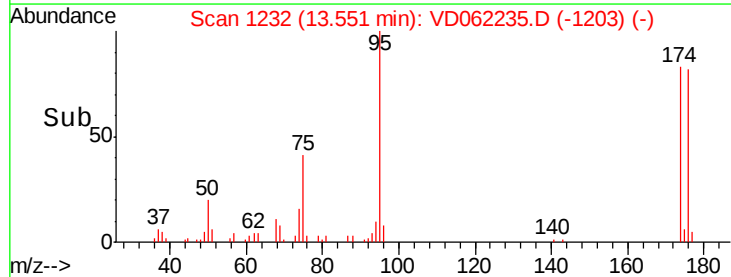
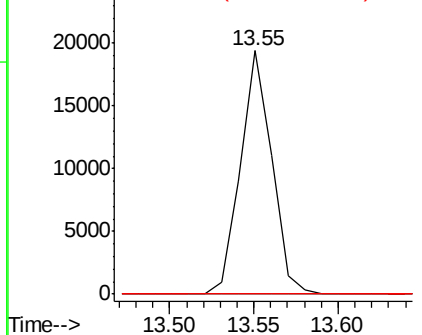
89 0.0 35.0 52.6#

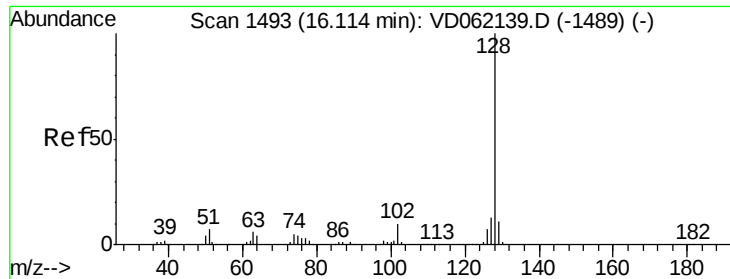


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.549 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062235.D

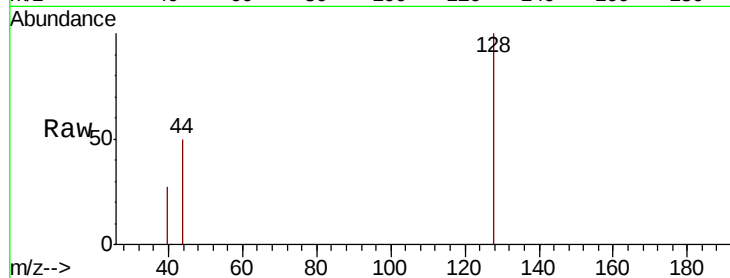
Acq: 11 May 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

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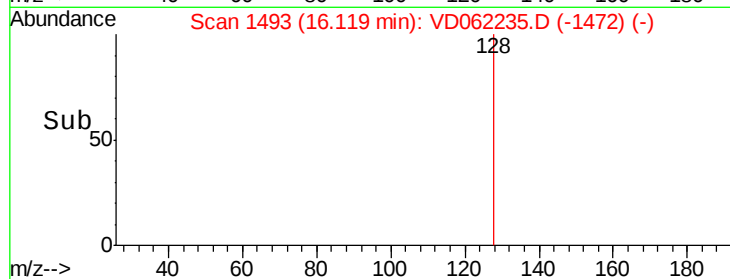
Tot Ion:128 Resp: 1751

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

2000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

