

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111219\
 Data File : VD064202.D
 Acq On : 12 Nov 2019 18:02
 Operator : VA/SY
 Sample : K5760-07RE
 Misc : 5.06G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 13 04:12:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	49745	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	73115	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	82554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	47041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	27039	66.09	ug/l	0.00
Spiked Amount			Recovery	=	132.18%	
35) Dibromofluoromethane	7.92	113	23141	55.14	ug/l	0.00
Spiked Amount			Recovery	=	110.28%	
50) Toluene-d8	10.34	98	88209	55.71	ug/l	0.00
Spiked Amount			Recovery	=	111.42%	
62) 4-Bromofluorobenzene	12.64	95	40963	74.71	ug/l	0.00
Spiked Amount			Recovery	=	149.42%	

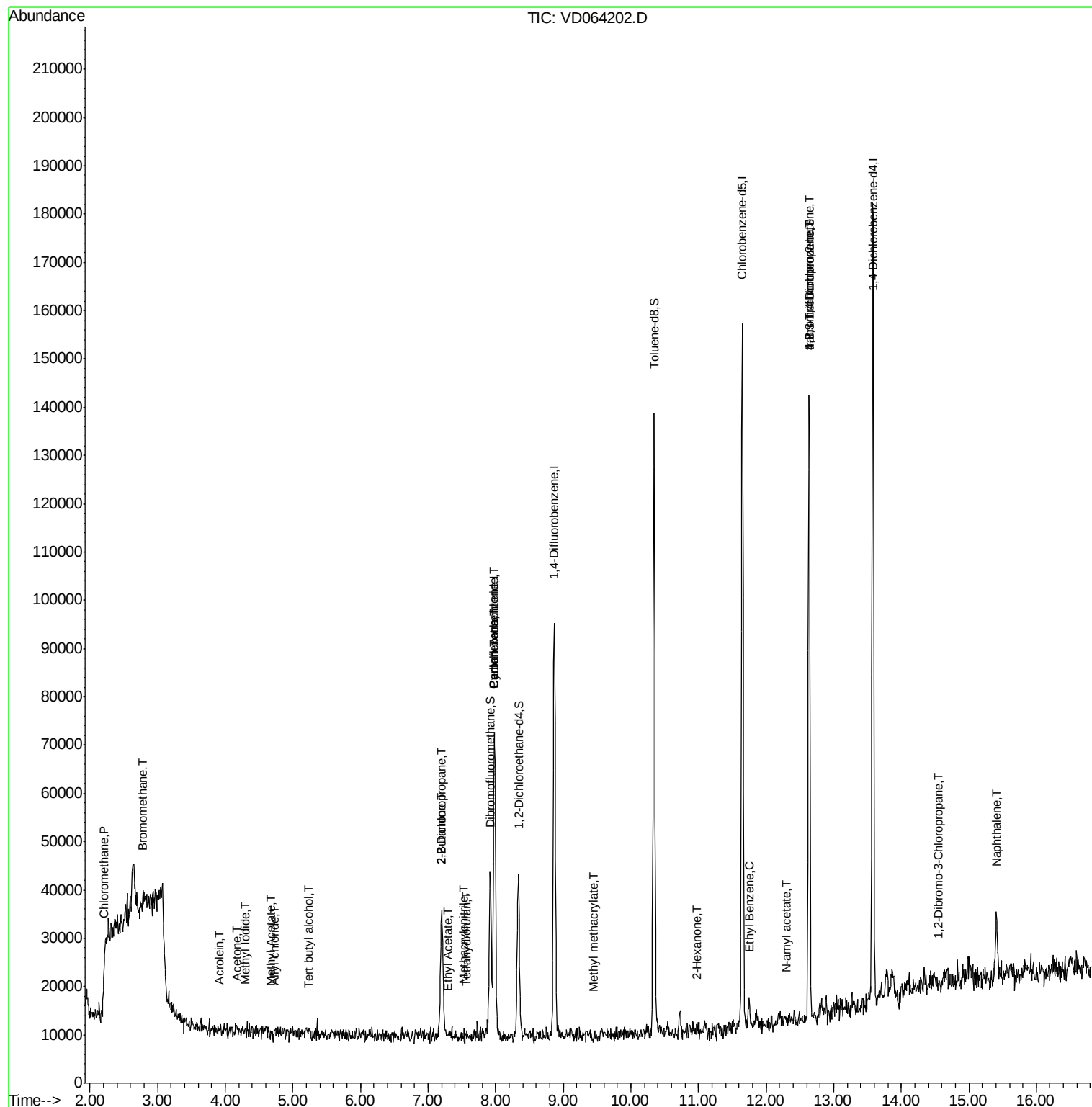
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	503	1.137	ug/l #	42
5) Bromomethane	2.77	94	1036	3.467	ug/l #	17
10) Methyl Iodide	4.29	142	138	2.296	ug/l #	41
11) Tert butyl alcohol	5.23	59	714	24.986	ug/l #	39
13) Acrolein	3.91	56	144	5.957	ug/l #	1
14) Allyl chloride	4.72	41	884	1.196	ug/l #	48
16) Acetone	4.17	43	1647	16.993	ug/l #	67
18) Methyl Acetate	4.68	43	698	2.578	ug/l #	53
25) 2-Butanone	7.21	43	2842	22.697	ug/l #	49
26) 2,2-Dichloropropane	7.20	77	1263	1.618	ug/l #	64
29) Tetrahydrofuran	7.58	42	664	8.826	ug/l #	35
31) Cyclohexane	7.97	56	1532	1.908	ug/l #	44
37) Ethyl Acetate	7.29	43	295	1.037	ug/l #	70
38) Carbon Tetrachloride	7.98	117	4670	6.468	ug/l #	12
41) Methacrylonitrile	7.54	41	545	3.048	ug/l #	66
48) Methyl methacrylate	9.46	41	603	2.104	ug/l #	39
59) 2-Hexanone	10.97	43	1296	6.481	ug/l #	26
67) Ethyl Benzene	11.75	91	3076	1.013	ug/l	91
74) N-amyl acetate	12.30	43	1222	1.499	ug/l #	44
76) 1,2,3-Trichloropropane	12.64	75	20386	53.803	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	20386	106.874	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.55	75	158	1.699	ug/l #	1
95) Naphthalene	15.41	128	11841	7.105	ug/l #	93

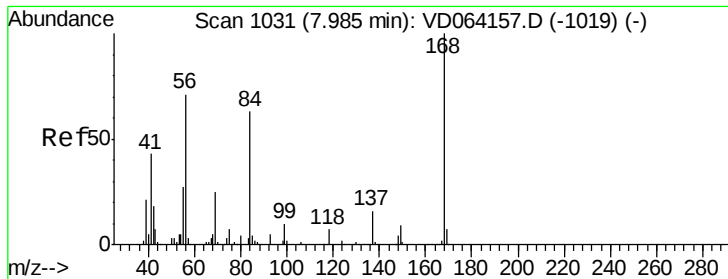
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD064202.D
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Quant Time: Nov 13 04:12:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

Instrument :

MSVOA_D

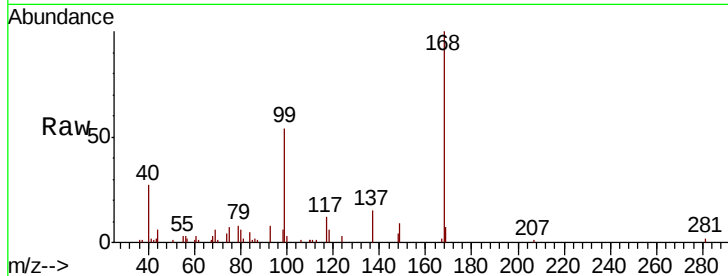
ClientSampleId :

Tot Ion:168 Resp: 49745

Ion Ratio Lower Upper

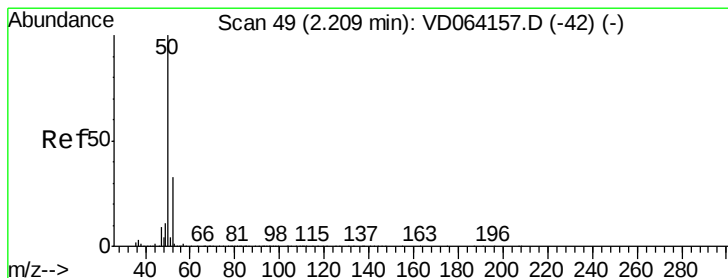
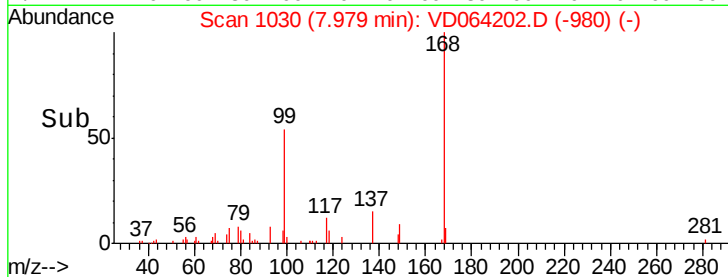
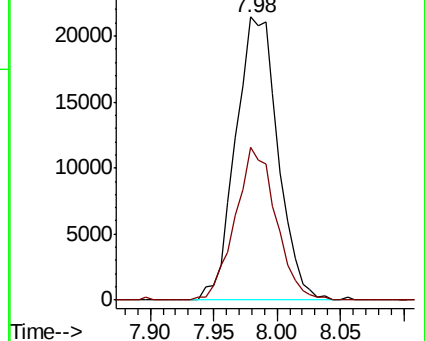
168 100

99 54.0 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.137 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064202.D

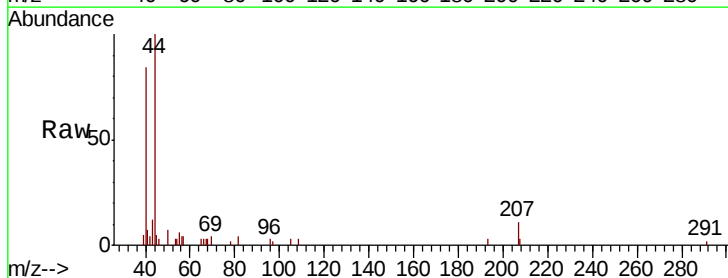
Acq: 12 Nov 2019 18:02

Tgt Ion: 50 Resp: 503

Ion Ratio Lower Upper

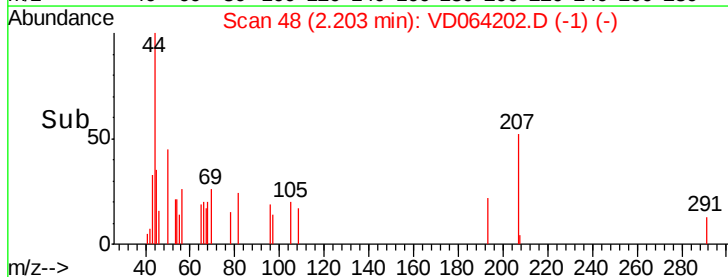
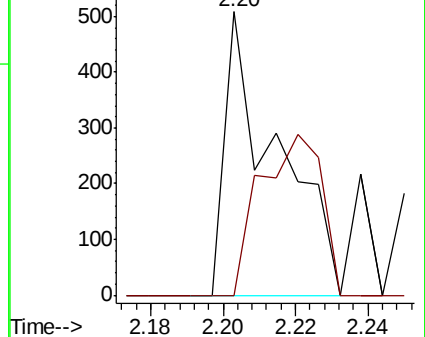
50 100

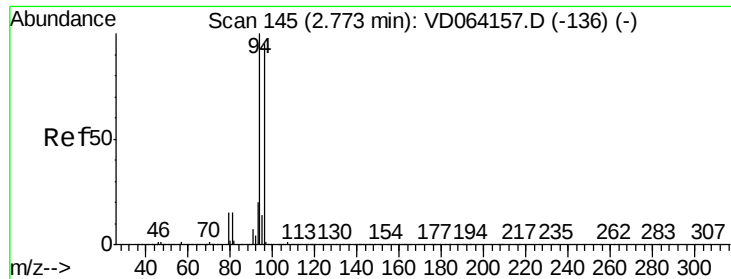
52 0.0 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 3.467 ug/l

RT: 2.77 min Scan# 145

Delta R.T. -0.00 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

Instrument :

MSVOA_D

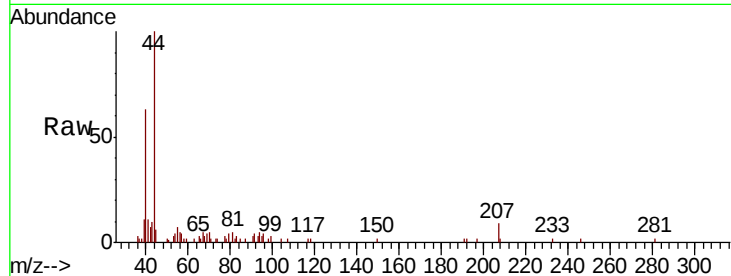
ClientSampled :

Tot Ion: 94 Resp: 1036

Ion Ratio Lower Upper

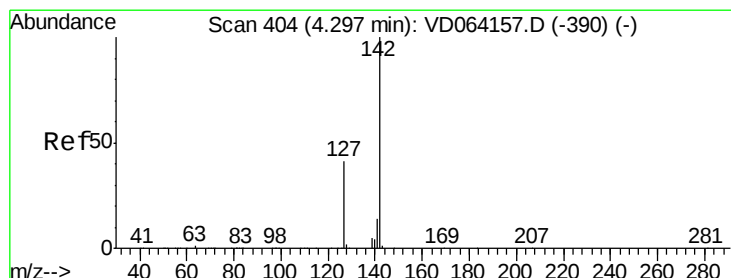
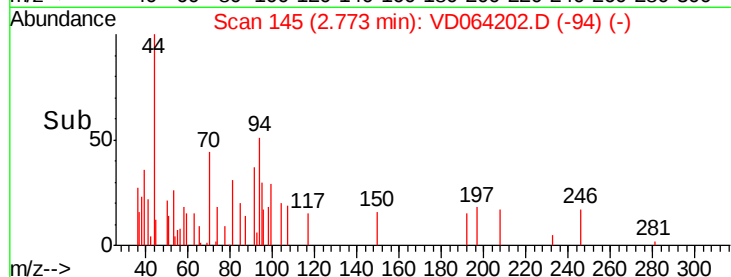
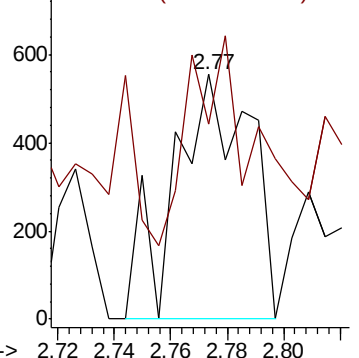
94 100

96 14.3 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 2.296 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

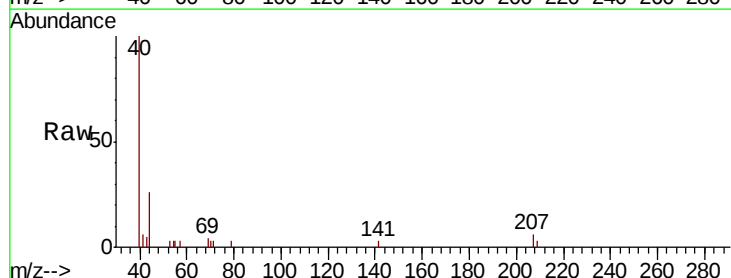
Tgt Ion: 142 Resp: 138

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

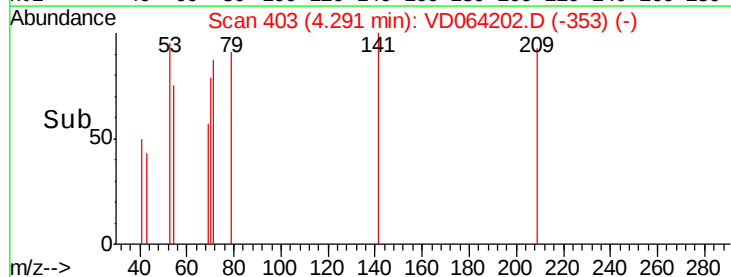
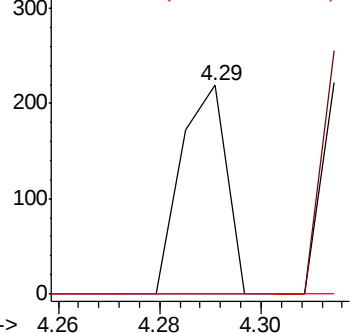
141 0.0 11.2 16.8#

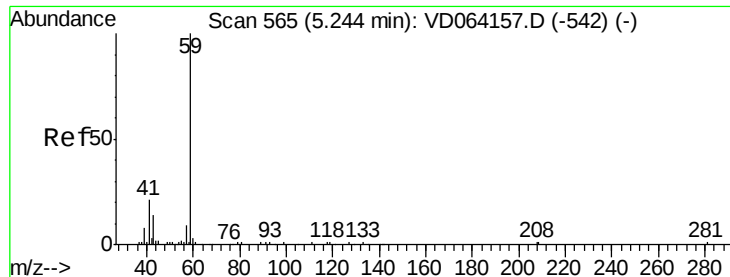


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

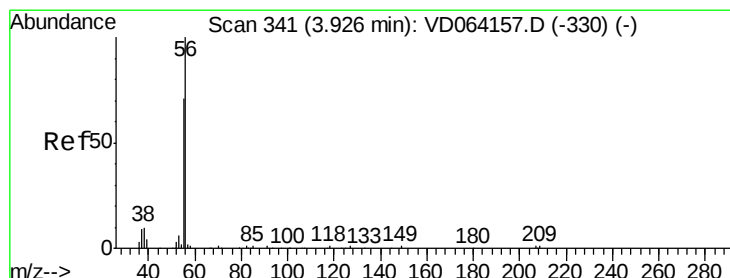
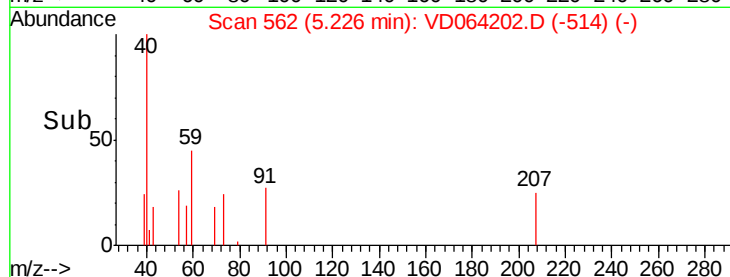
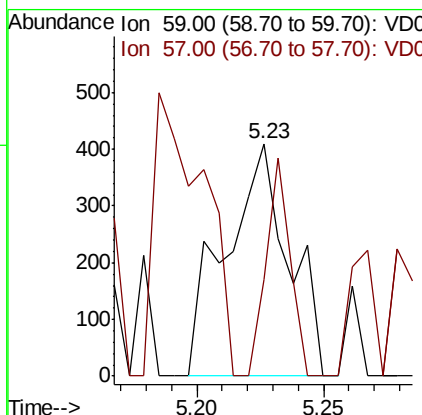
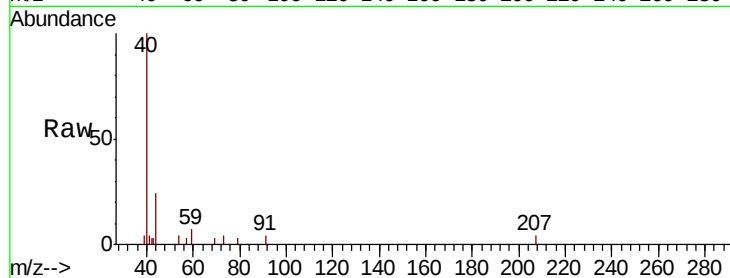




#11
Tert butyl alcohol
Concen: 24.986 ug/l
RT: 5.23 min Scan# 562
Delta R.T. -0.02 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

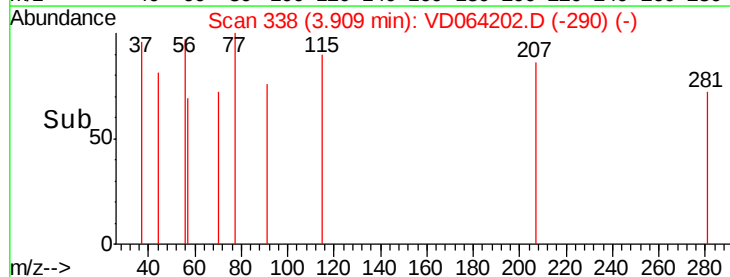
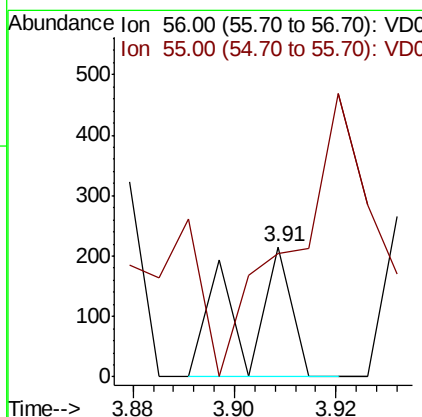
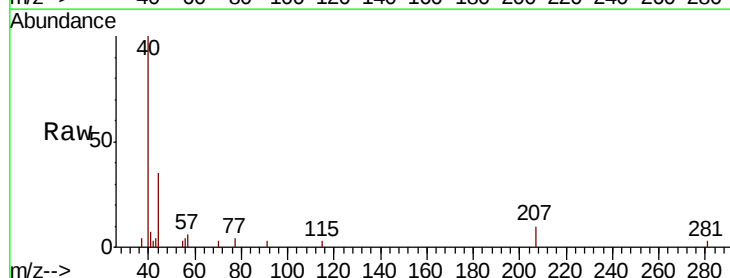
Instrument :
MSVOA_D
ClientSampled :

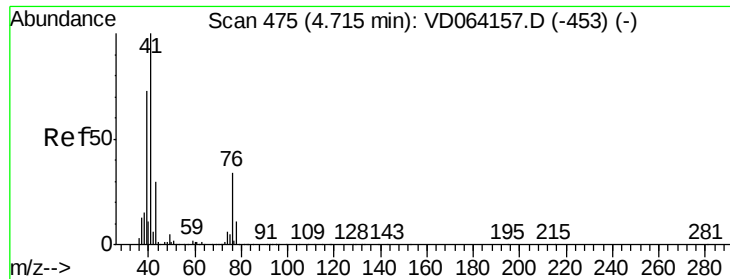
Tot Ion: 59 Resp: 714
Ion Ratio Lower Upper
59 100
57 35.6 9.4 14.2#



#13
Acrolein
Concen: 5.957 ug/l
RT: 3.91 min Scan# 338
Delta R.T. -0.02 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Tgt Ion: 56 Resp: 144
Ion Ratio Lower Upper
56 100
55 369.4 56.1 84.1#

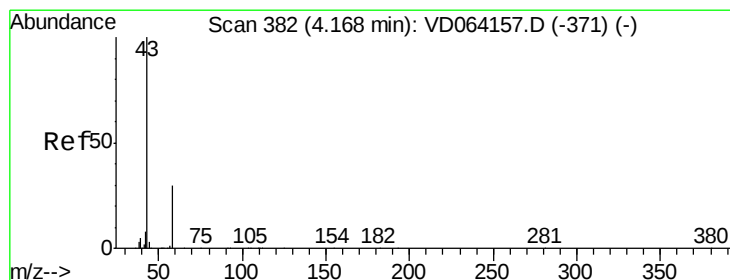
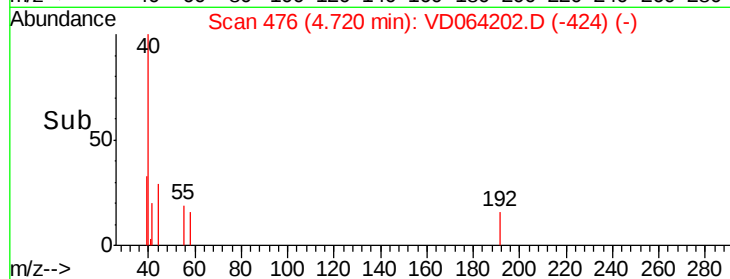
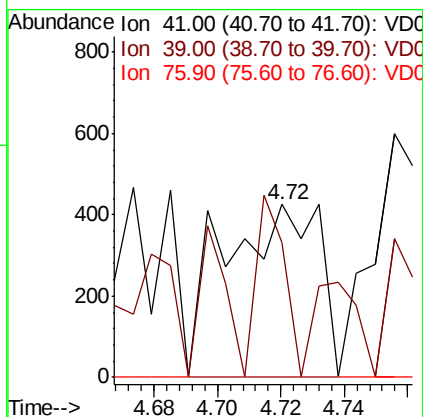
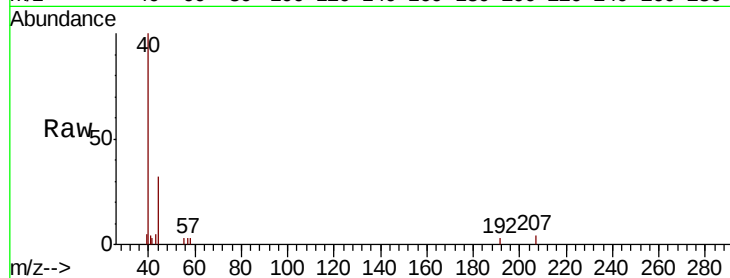




#14
Allvl chloride
Concen: 1.196 ug/l
RT: 4.72 min Scan# 476
Delta R.T. 0.01 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

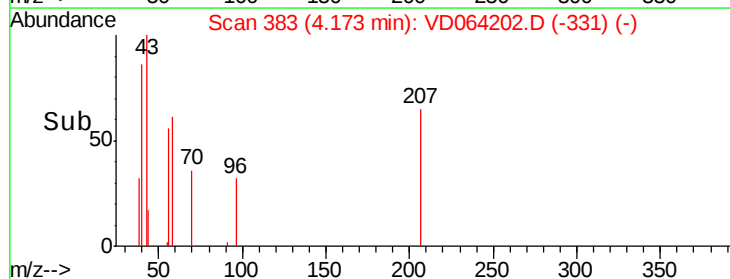
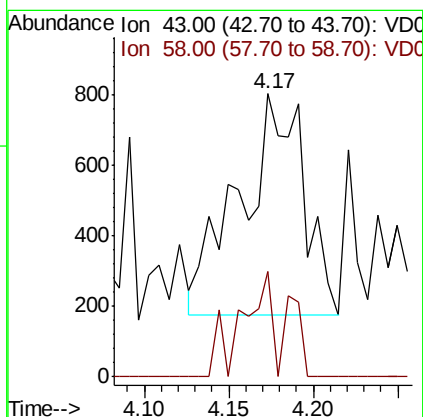
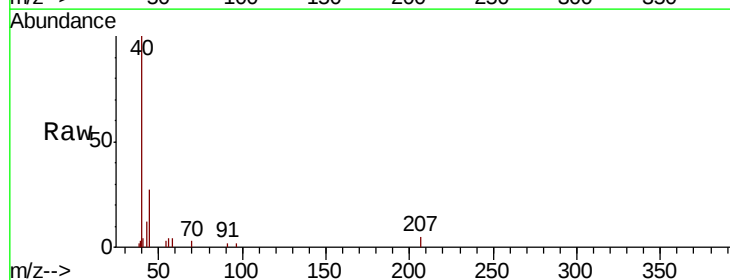
Instrument :
MSVOA_D
ClientSampleId :

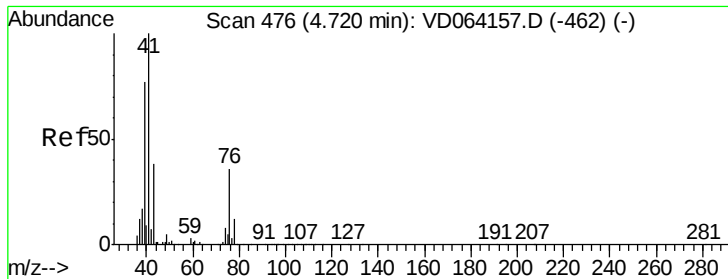
Tot Ion: 41 Resp: 884
Ion Ratio Lower Upper
41 100
39 31.2 57.5 86.3#
76 0.0 26.8 40.2#



#16
Acetone
Concen: 16.993 ug/l
RT: 4.17 min Scan# 383
Delta R.T. 0.01 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Tgt Ion: 43 Resp: 1647
Ion Ratio Lower Upper
43 100
58 48.1 24.1 36.1#

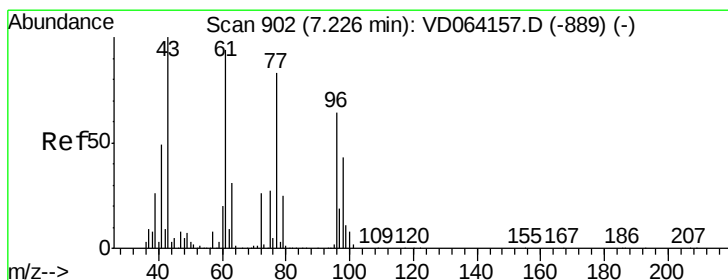
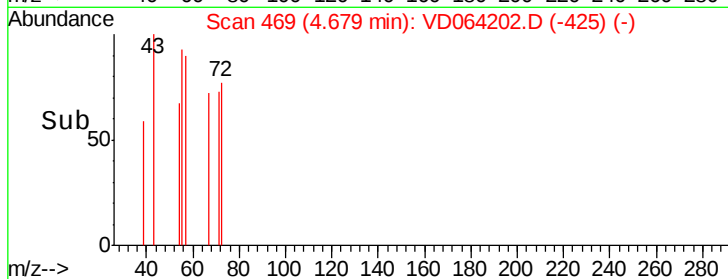
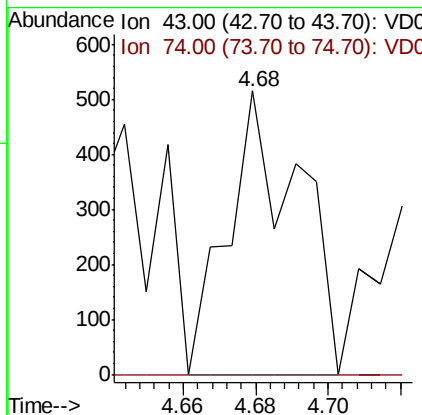
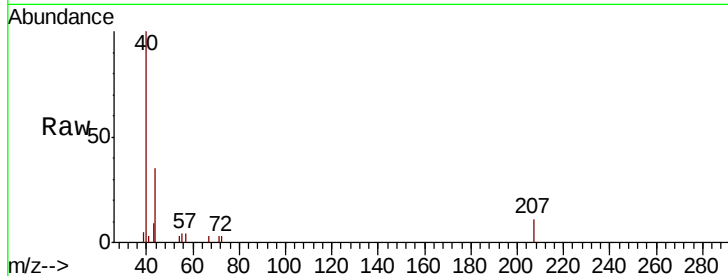




#18
Methyl Acetate
Concen: 2.578 ug/l
RT: 4.68 min Scan# 469
Delta R.T. -0.04 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

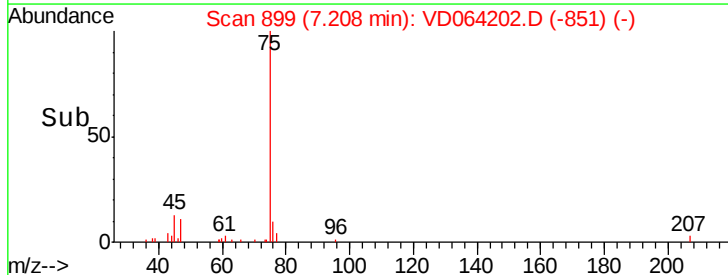
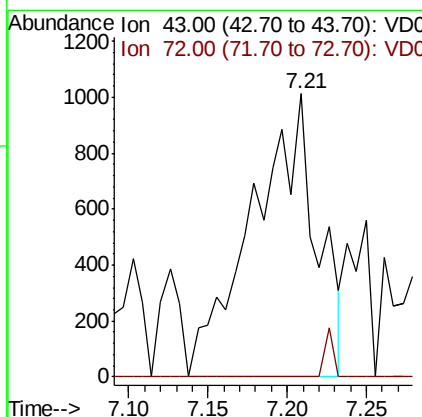
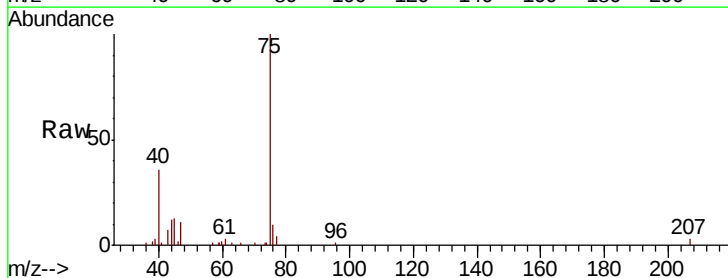
Instrument :
MSVOA_D
ClientSampled :

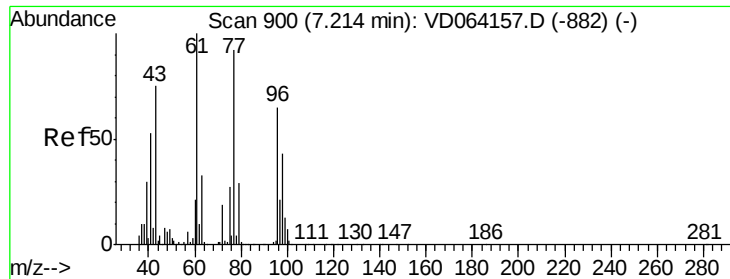
Tot Ion: 43 Resp: 698
Ion Ratio Lower Upper
43 100
74 0.0 18.4 27.6#



#25
2-Butanone
Concen: 22.697 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.02 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Tgt Ion: 43 Resp: 2842
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#26

2,2-Dichloropropane

Concen: 1.618 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.02 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

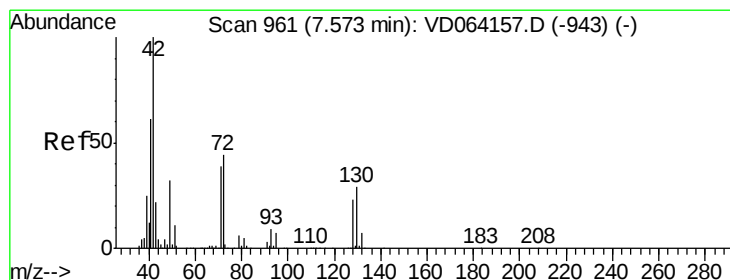
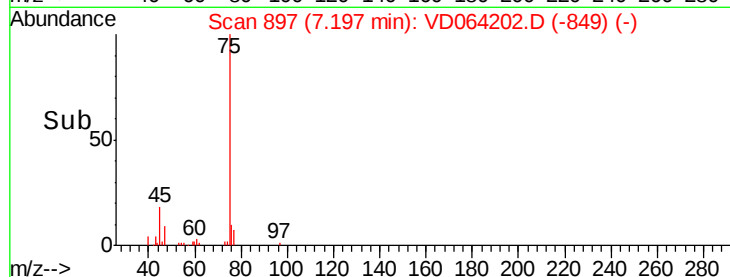
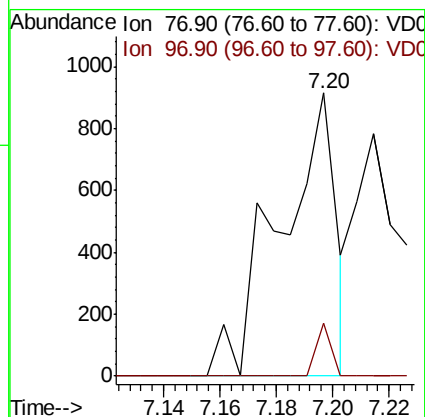
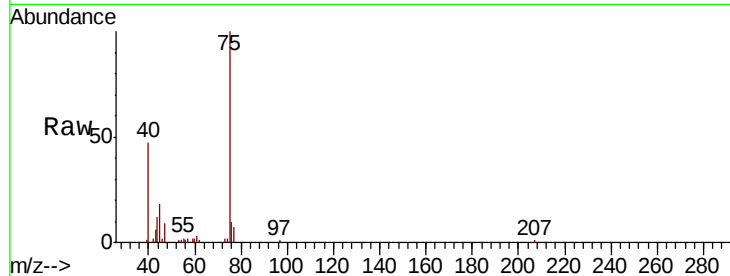
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 77 Resp: 1263

Ion Ratio Lower Upper

77 100

97 4.8 11.1 33.3#



#29

Tetrahydrofuran

Concen: 8.826 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

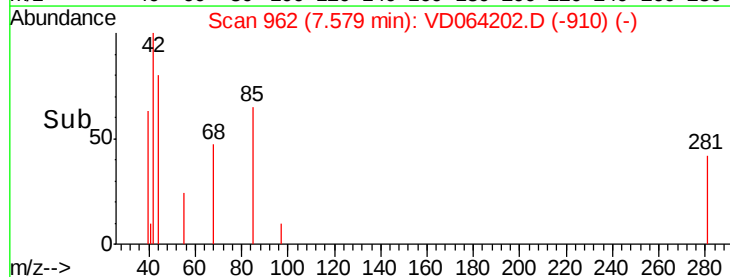
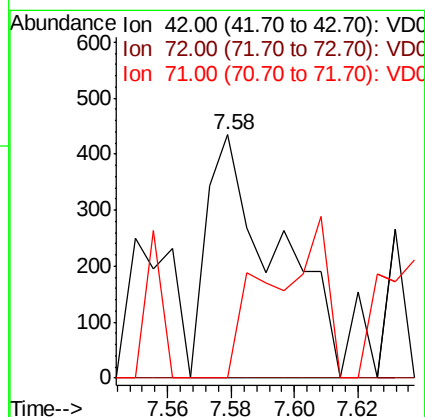
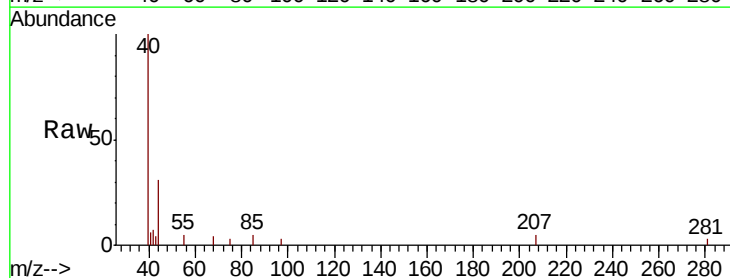
Tgt Ion: 42 Resp: 664

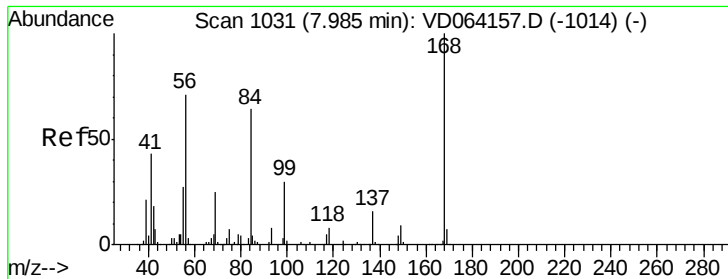
Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

71 0.0 31.0 46.4#

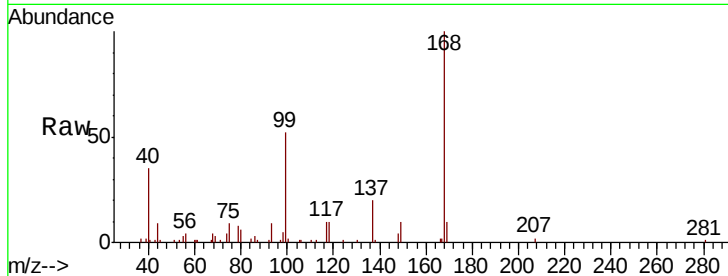




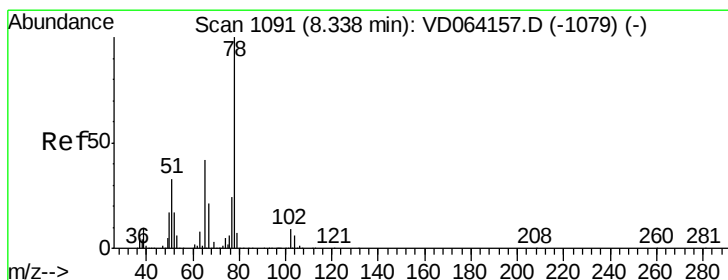
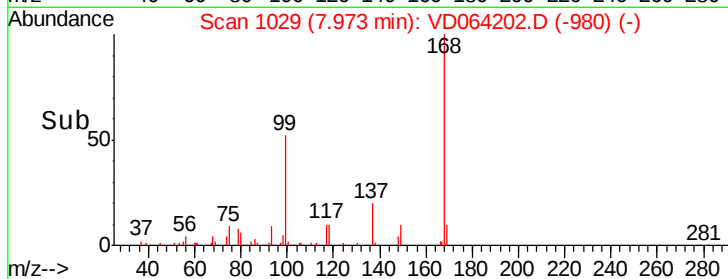
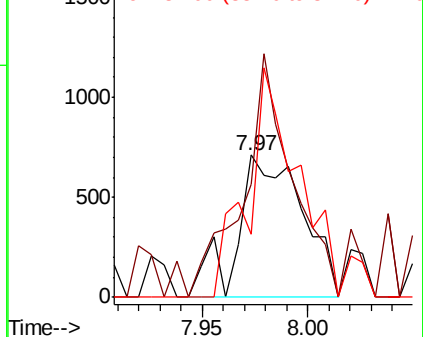
#31
Cyclohexane
Concen: 1.908 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 1532
Ion Ratio Lower Upper
56 100
69 79.4 28.2 42.4#
84 44.5 71.8 107.6#

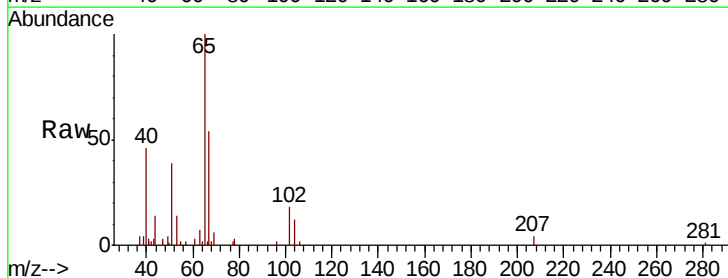


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

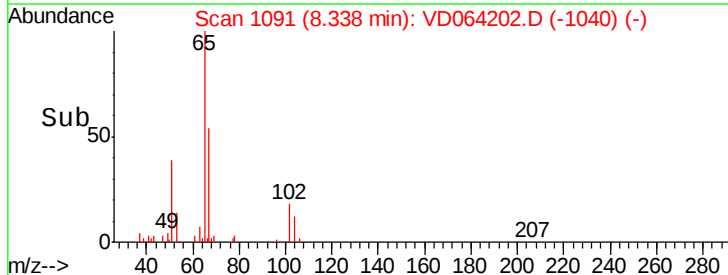
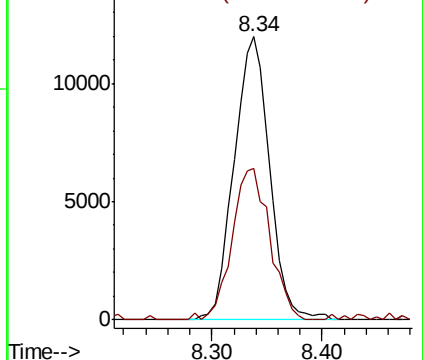


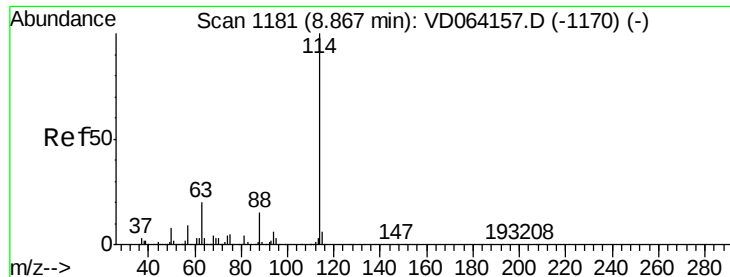
#33
1,2-Dichloroethane-d4
Concen: 66.090 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Tgt Ion: 65 Resp: 27039
Ion Ratio Lower Upper
65 100
67 56.8 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

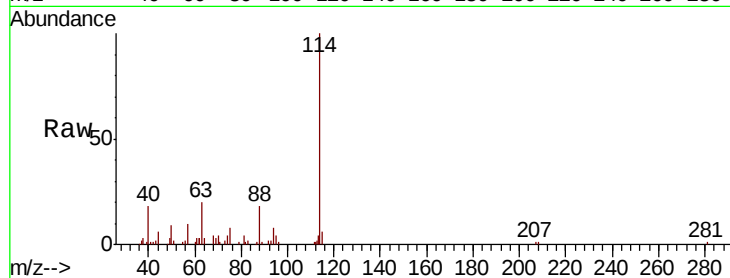




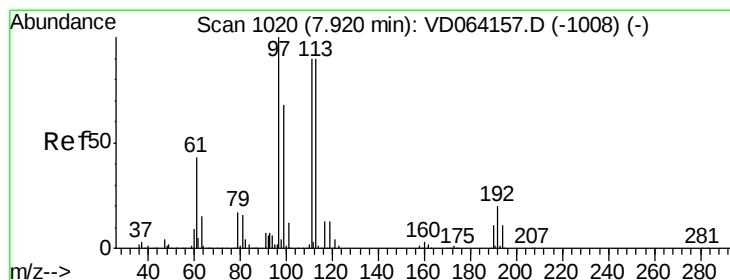
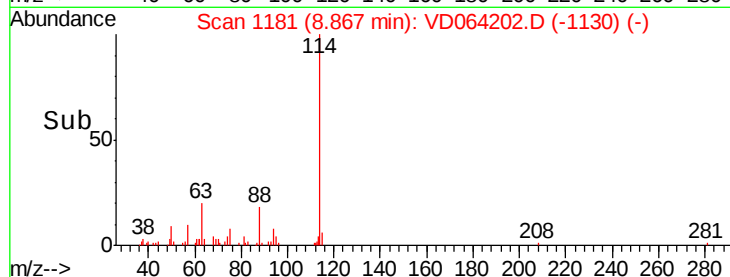
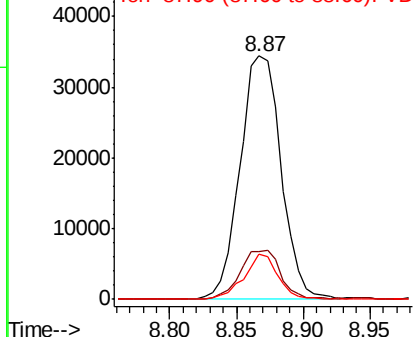
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064202.D
 Acq: 12 Nov 2019 18:02

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	40.0
88	18.5	0.0	30.2

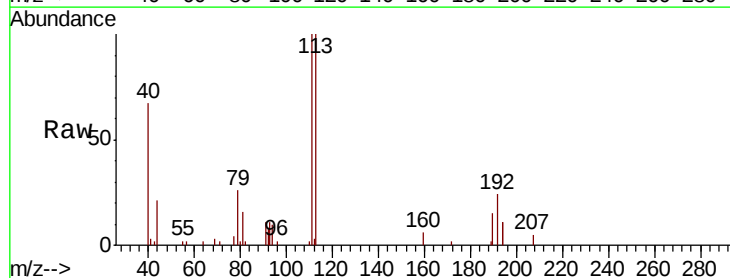


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

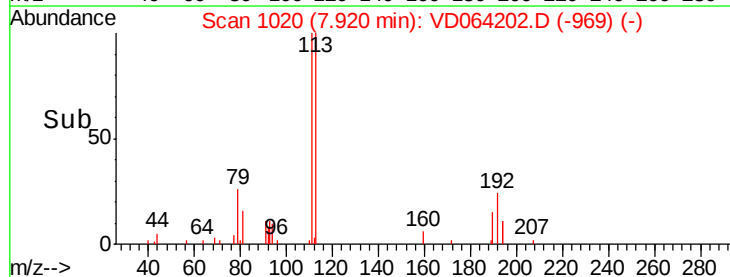
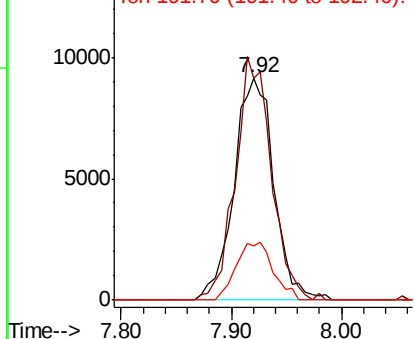


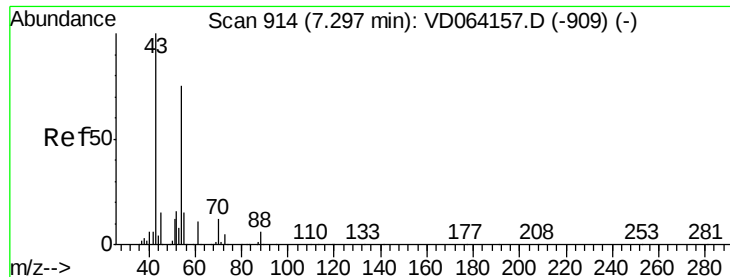
#35
 Dibromofluoromethane
 Concen: 55.138 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064202.D
 Acq: 12 Nov 2019 18:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	98.7	81.5	122.3
192	24.2	18.8	28.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#37

Ethyl Acetate

Concen: 1.037 ug/l

RT: 7.29 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

Instrument :

MSVOA_D

ClientSampleId :

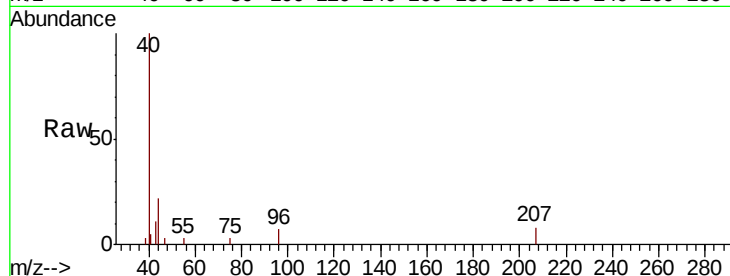
Tot Ion: 43 Resp: 295

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

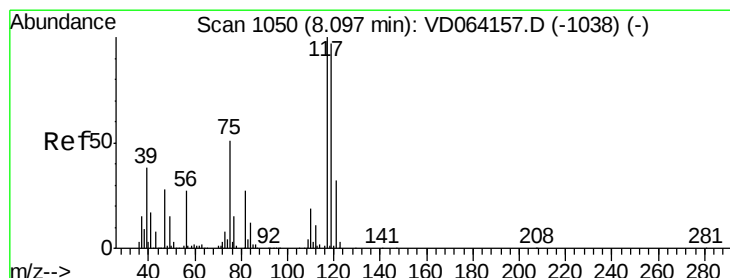
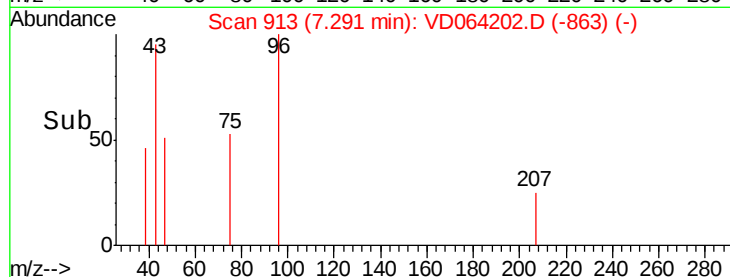
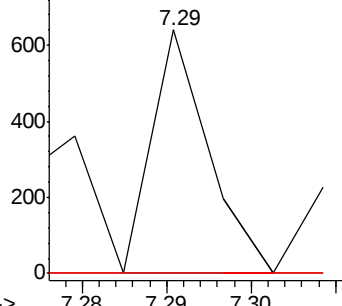
70 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 6.468 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

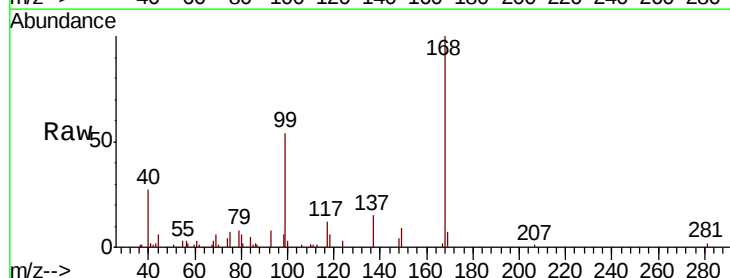
Tgt Ion: 117 Resp: 4670

Ion Ratio Lower Upper

117 100

119 0.0 77.2 115.8#

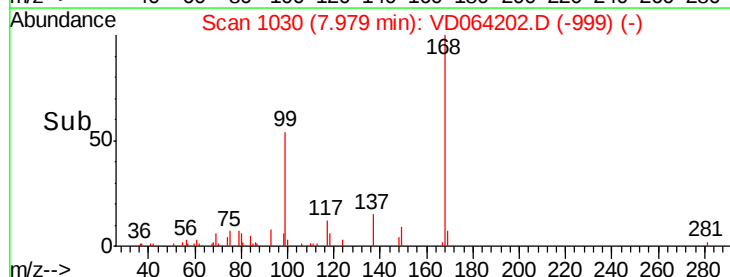
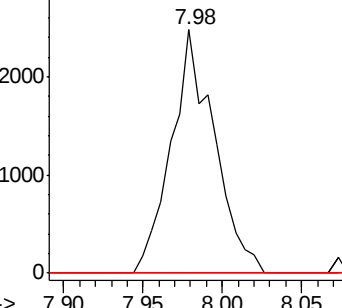
121 0.0 25.5 38.3#

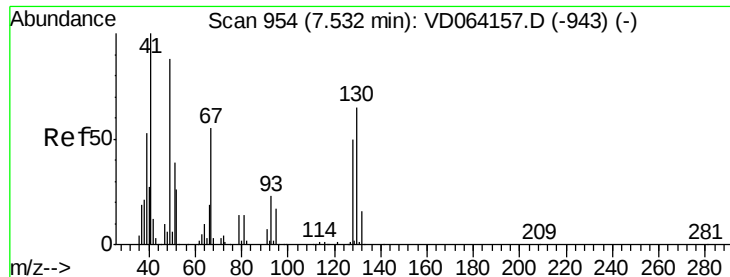


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

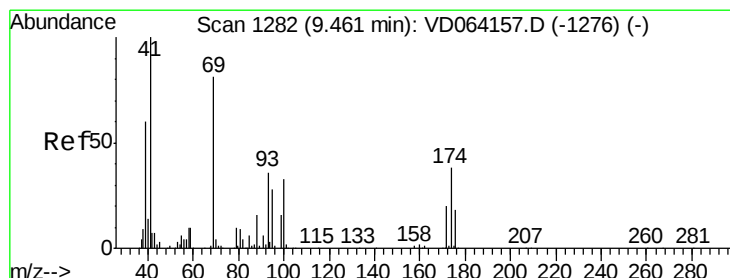
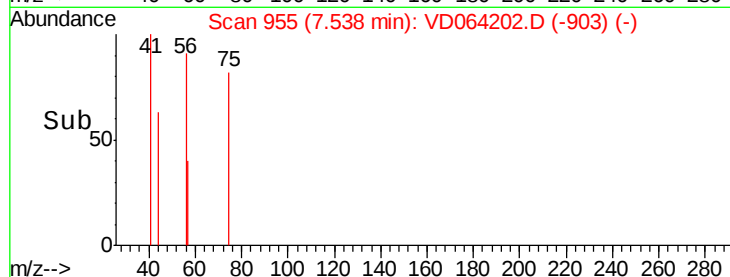
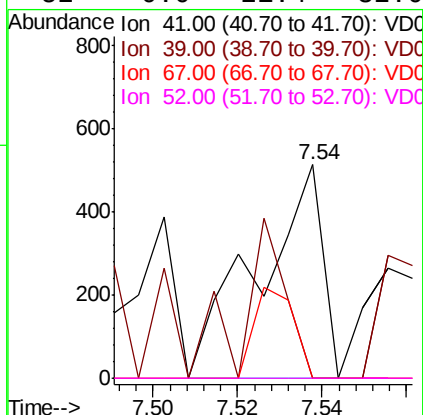
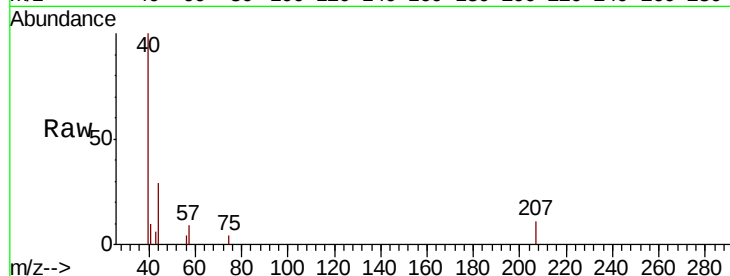




#41
Methacrylonitrile
Concen: 3.048 ug/l
RT: 7.54 min Scan# 955
Delta R.T. 0.01 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

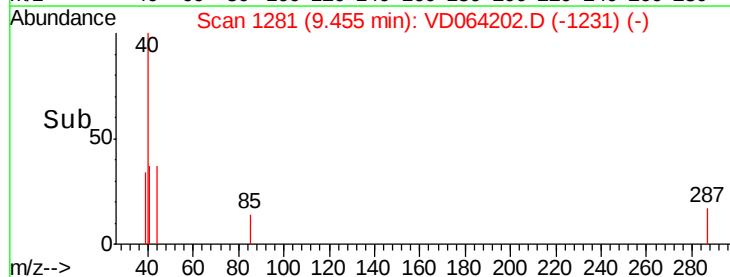
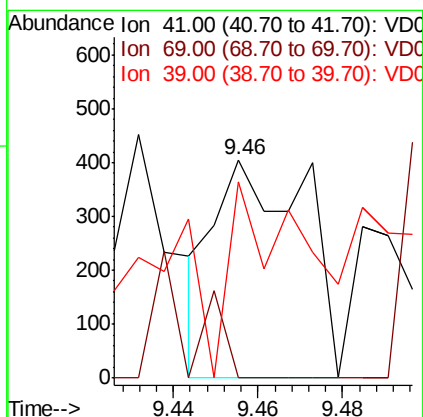
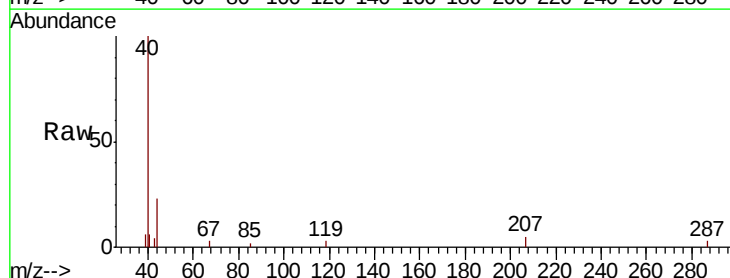
Instrument :
MSVOA_D
ClientSampleId :

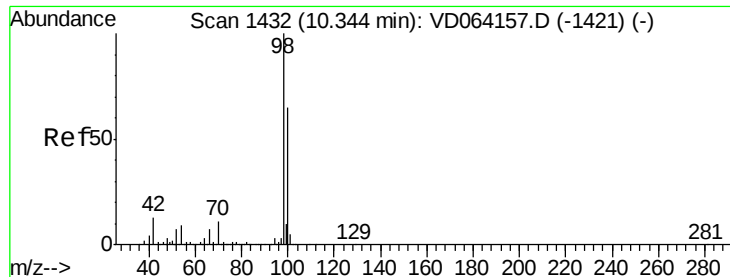
Tot Ion	Ratio	Lower	Upper
41	100		
39	50.8	49.4	74.2
67	26.4	49.6	74.4#
52	0.0	21.4	32.0#



#48
Methyl methacrylate
Concen: 2.104 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	64.6	97.0#
39	75.3	48.2	72.2#

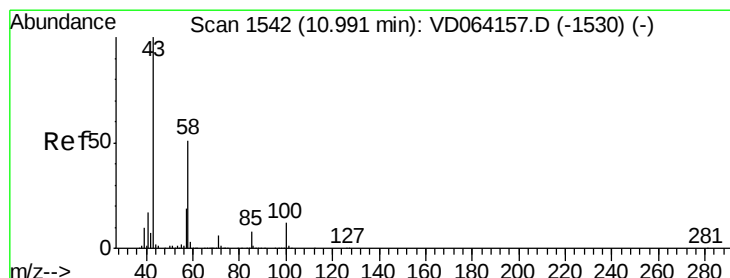
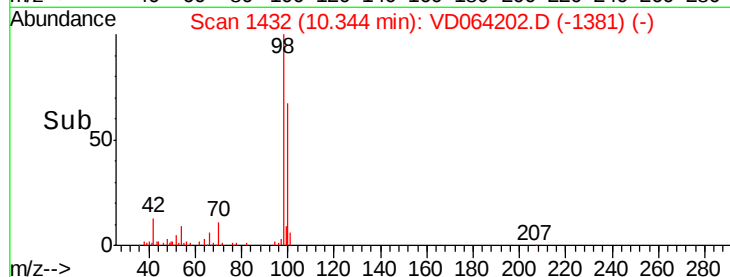
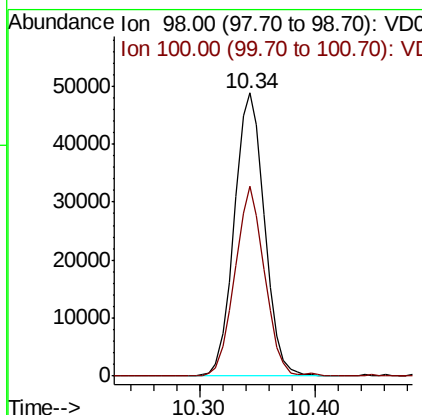
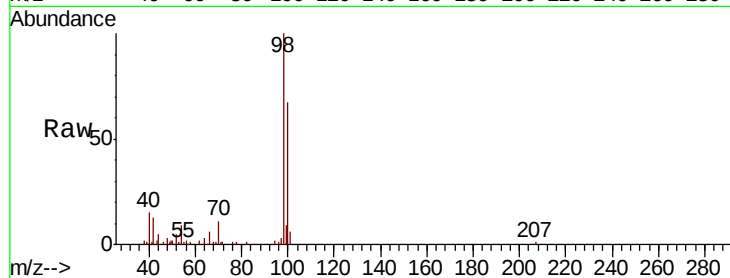




#50
Toluene-d8
Concen: 55.714 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

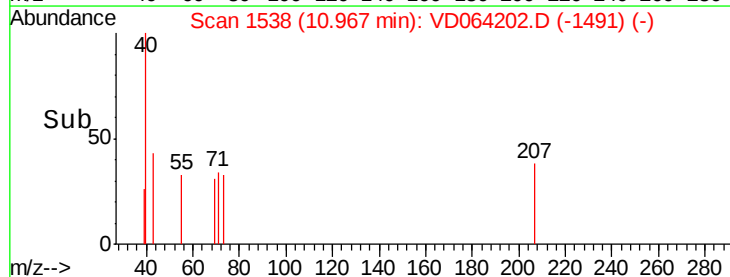
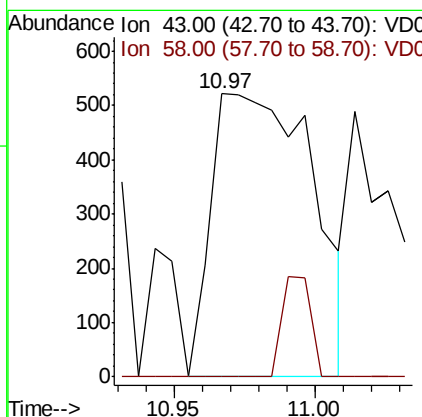
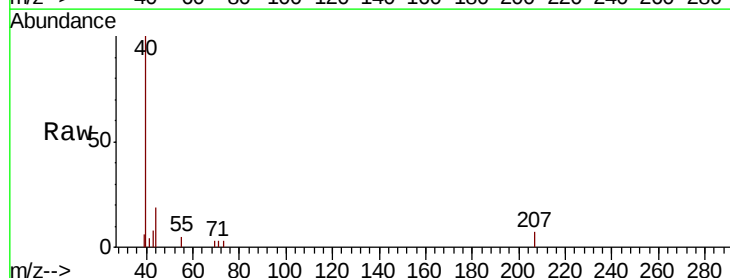
Instrument :
MSVOA_D
ClientSampled :

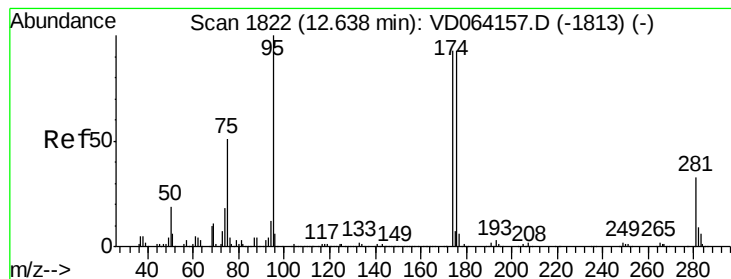
Tot Ion: 98 Resp: 88209
Ion Ratio Lower Upper
98 100
100 66.0 52.6 78.8



#59
2-Hexanone
Concen: 6.481 ug/l
RT: 10.97 min Scan# 1538
Delta R.T. -0.02 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Tgt Ion: 43 Resp: 1296
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 74.710 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

Instrument :

MSVOA_D

ClientSampleId :

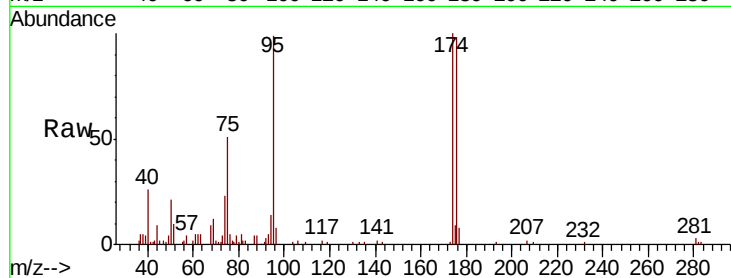
Tot Ion: 95 Resp: 40963

Ion Ratio Lower Upper

95 100

174 98.5 0.0 183.6

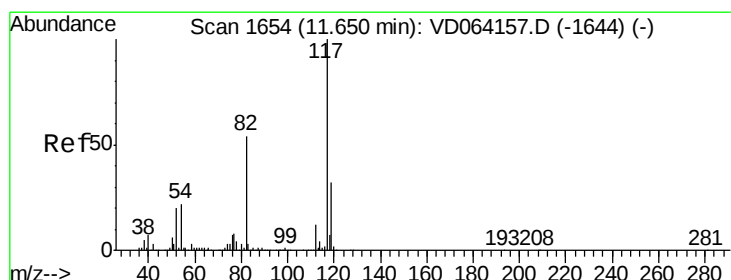
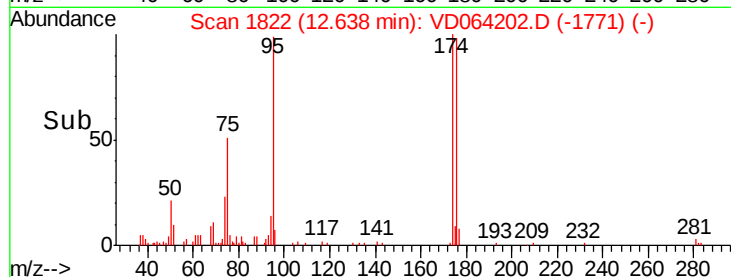
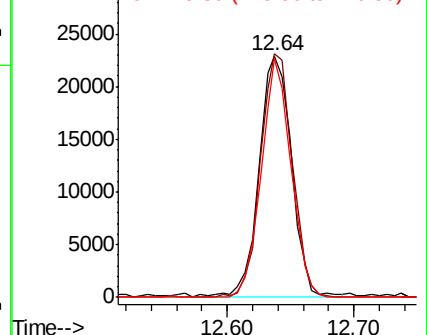
176 90.1 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

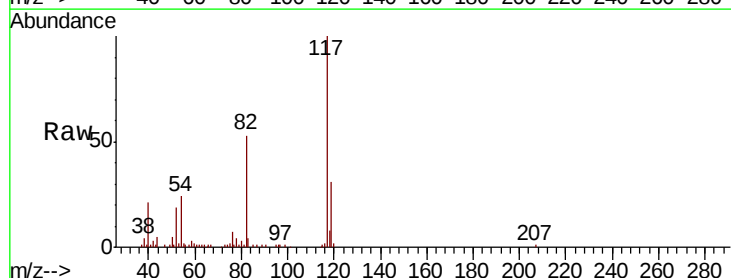
Tgt Ion: 117 Resp: 82554

Ion Ratio Lower Upper

117 100

82 53.4 42.8 64.2

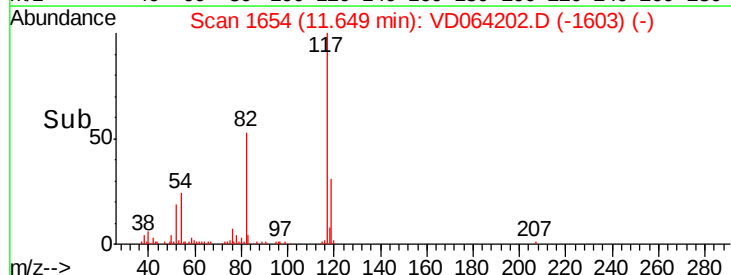
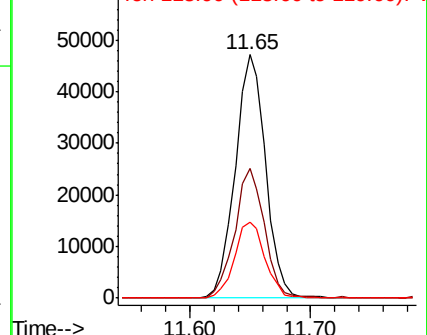
119 31.4 25.6 38.4

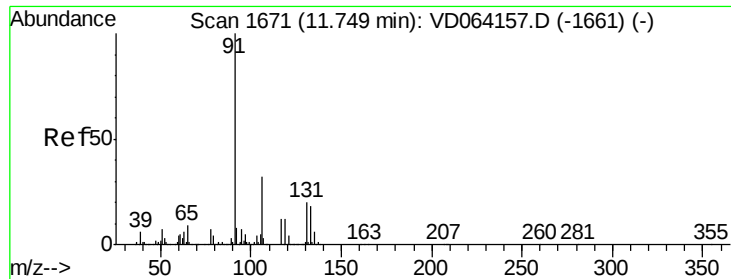


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

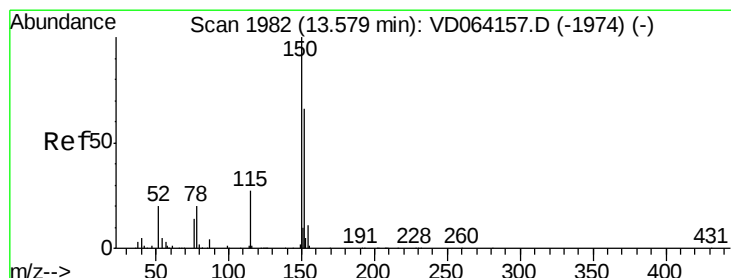
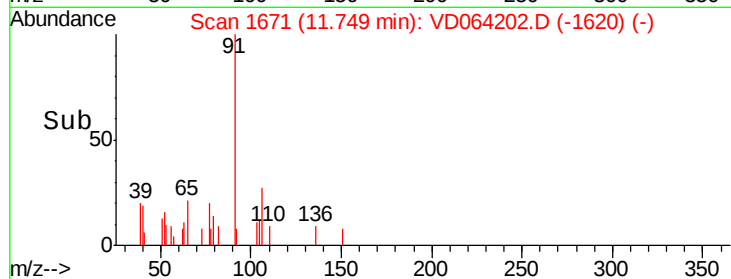
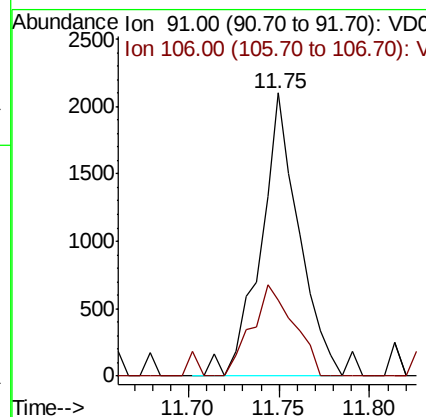
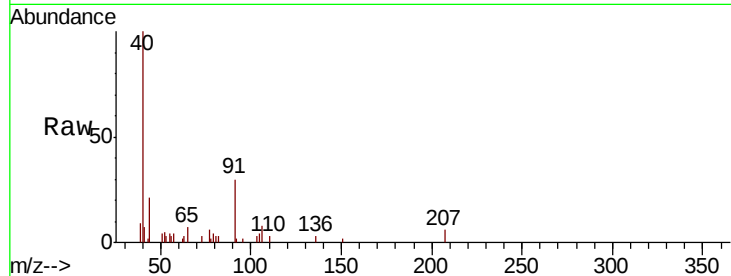




#67
Ethyl Benzene
Concen: 1.013 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

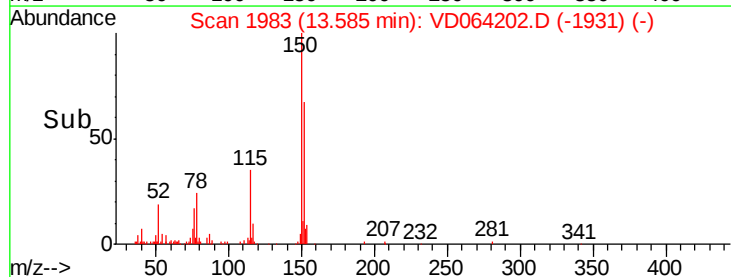
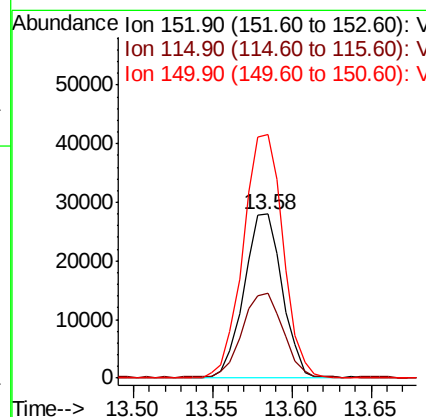
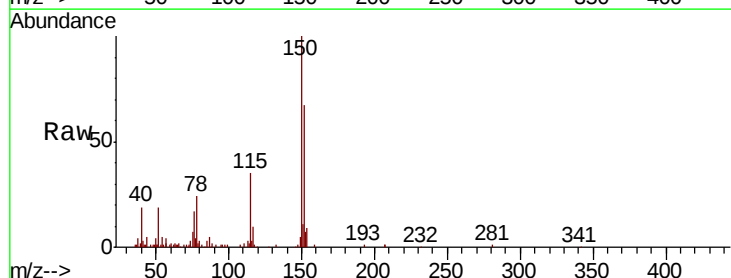
Instrument :
MSVOA_D
ClientSampleId :

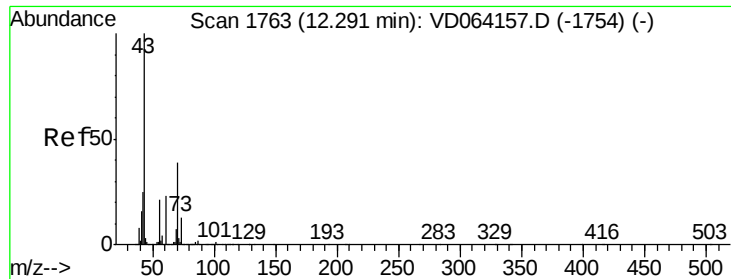
Tot Ion: 91 Resp: 3076
Ion Ratio Lower Upper
91 100
106 27.1 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD064202.D
Acq: 12 Nov 2019 18:02

Tgt Ion: 152 Resp: 47041
Ion Ratio Lower Upper
152 100
115 56.7 27.4 82.2
150 154.4 0.0 351.6





#74

N-amvl acetate

Concen: 1.499 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 1222

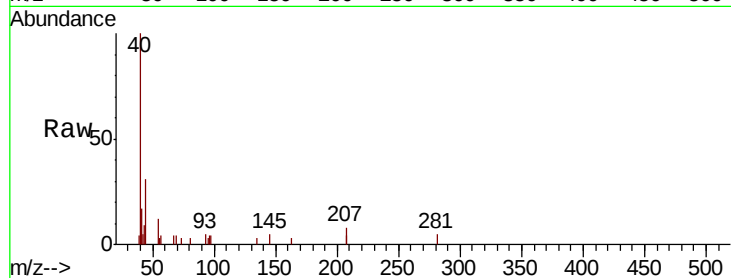
Ion Ratio Lower Upper

43 100

70 10.9 32.4 48.6#

55 59.6 17.9 26.9#

61 0.0 19.0 28.4#

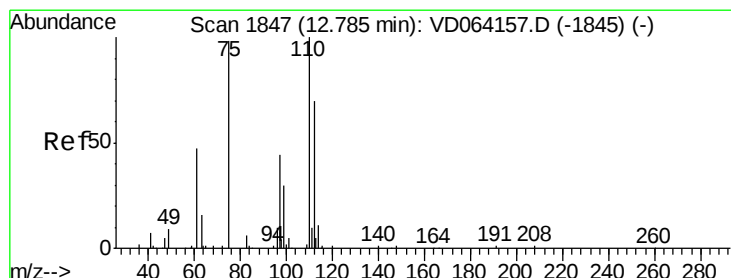
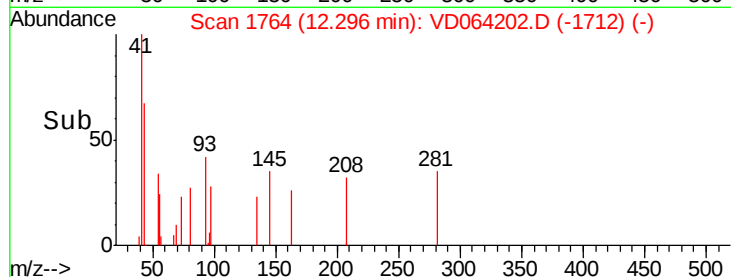
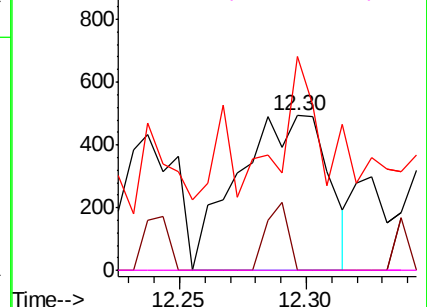


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 53.803 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064202.D

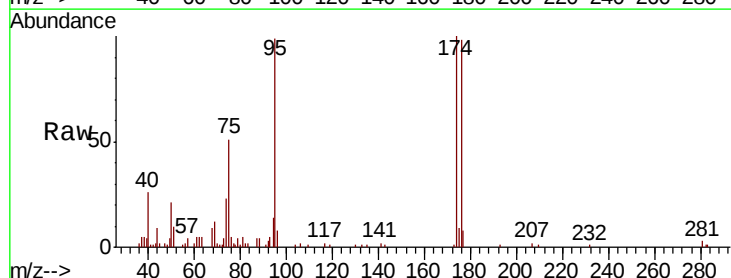
Acq: 12 Nov 2019 18:02

Tgt Ion: 75 Resp: 20386

Ion Ratio Lower Upper

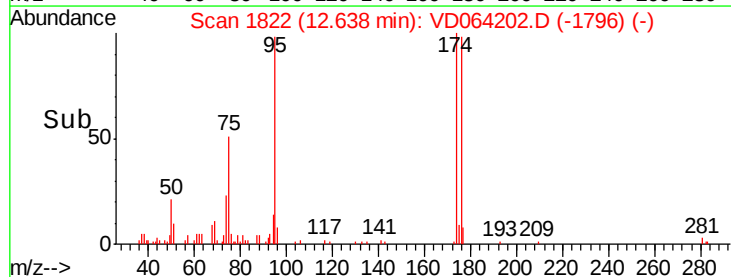
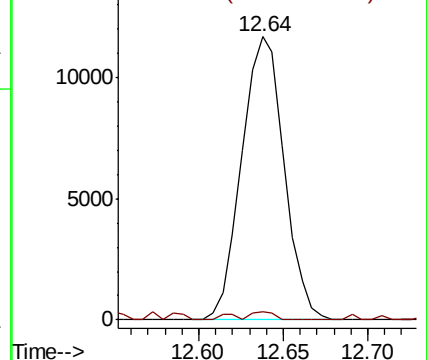
75 100

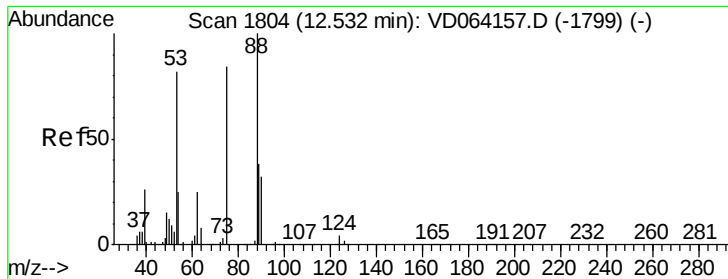
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 106.874 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

Instrument :

MSVOA_D

ClientSampleId :

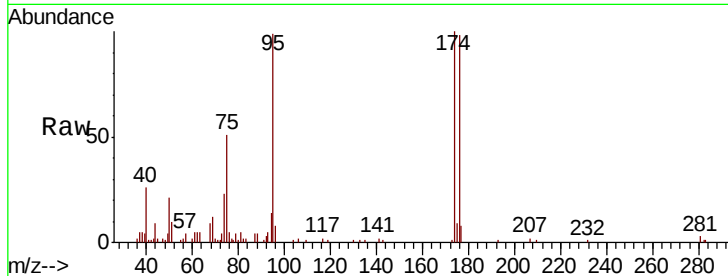
Tot Ion: 75 Resp: 20386

Ion Ratio Lower Upper

75 100

53 0.3 79.4 119.0#

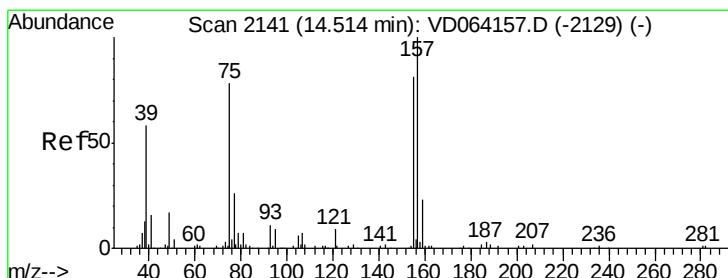
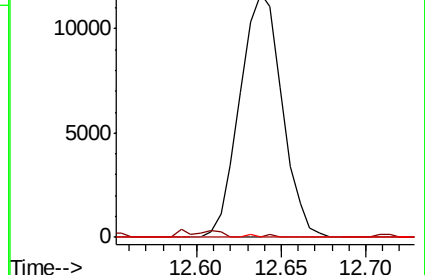
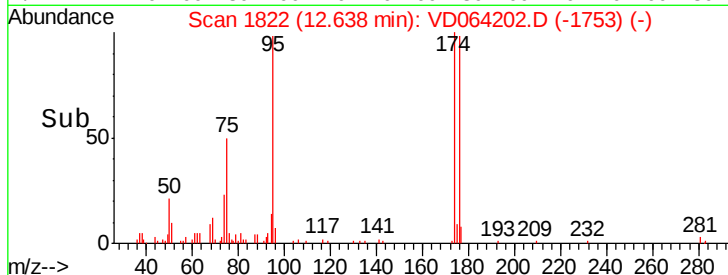
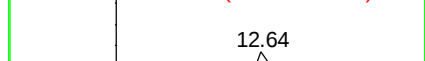
89 0.3 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.699 ug/l

RT: 14.55 min Scan# 2147

Delta R.T. 0.04 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

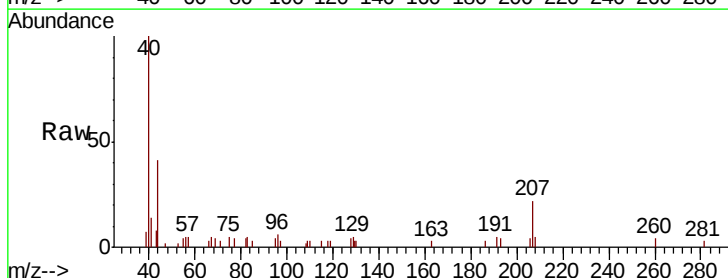
Tgt Ion: 75 Resp: 158

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.0#

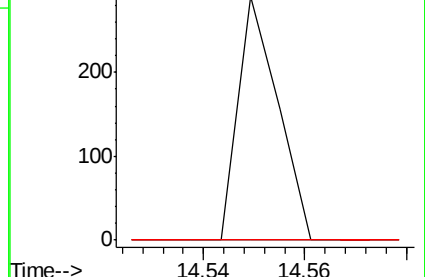
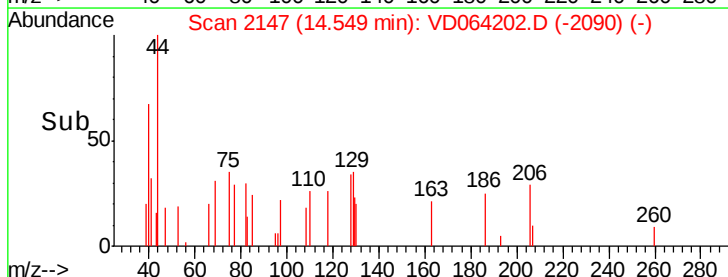
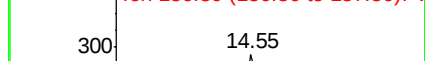
157 0.0 61.5 184.4#

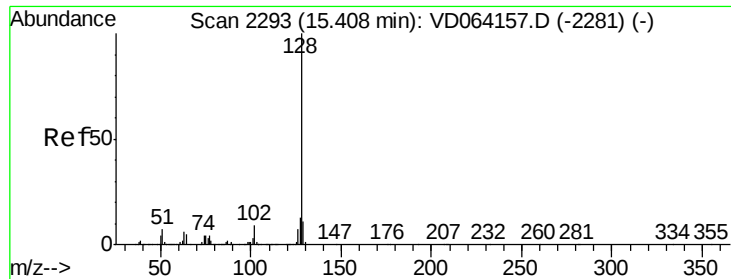


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 7.105 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD064202.D

Acq: 12 Nov 2019 18:02

Instrument :

MSVOA_D

ClientSampleId :

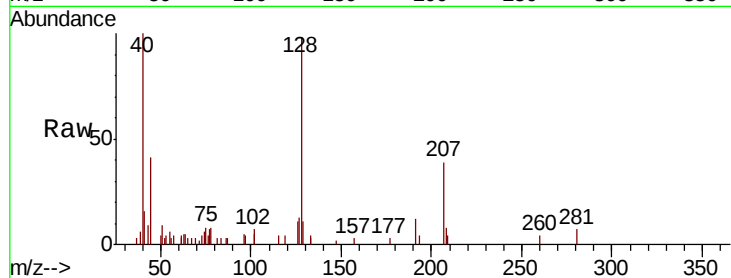
Tot Ion:128 Resp: 11841

Ion Ratio Lower Upper

128 100

127 14.3 10.5 15.7

129 15.6 8.6 13.0#



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

