

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102120\
 Data File : VD067342.D
 Acq On : 21 Oct 2020 12:42
 Operator : VA/SY
 Sample : L4467-03
 Misc : 4.92G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VNJ-240

Quant Time: Oct 22 00:20:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	33336	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	55524	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	67393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	37419	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	25277	75.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	151.36%	
35) Dibromofluoromethane	7.92	113	20723	56.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.16%	
50) Toluene-d8	10.34	98	68304	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	
62) 4-Bromofluorobenzene	12.64	95	32582	70.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	140.14%	

Target Compounds

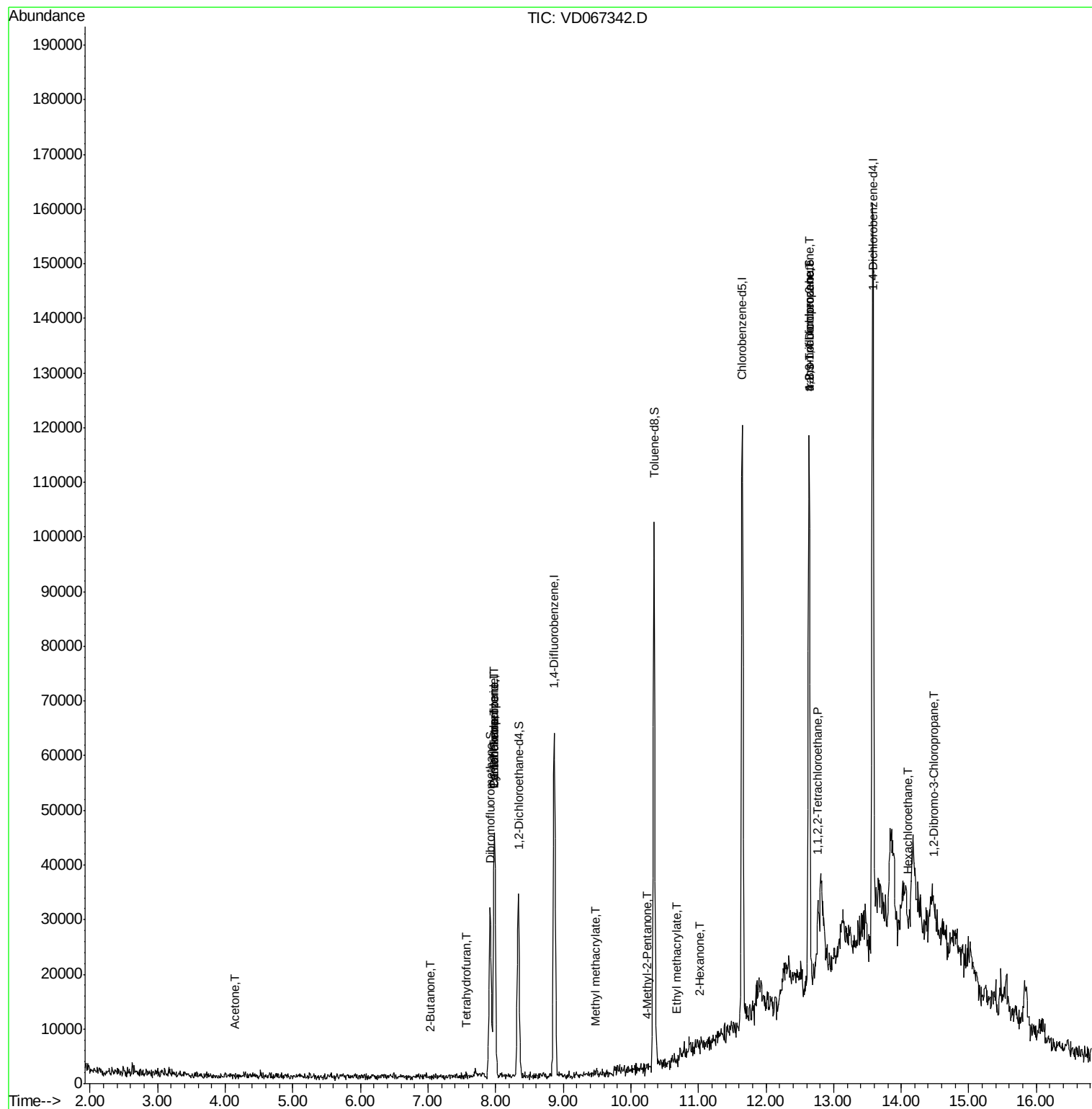
					Qvalue	
5) Bromomethane	2.78	94	138	Below Cal		93
16) Acetone	4.14	43	63	1.347 ug/l #		42
20) Methylene Chloride	4.95	84	69	Below Cal #		16
25) 2-Butanone	7.03	43	62	1.163 ug/l #		45
29) Tetrahydrofuran	7.57	42	103	3.475 ug/l #		54
31) Cyclohexane	7.98	56	767	1.994 ug/l #		46
36) 1,1-Dichloropropene	7.98	75	2905	6.173 ug/l #		45
38) Carbon Tetrachloride	7.98	117	3755	6.243 ug/l #		13
48) Methyl methacrylate	9.48	41	443	3.318 ug/l #		2
51) 4-Methyl-2-Pentanone	10.23	43	202	1.474 ug/l #		31
56) Ethyl methacrylate	10.67	69	321	1.218 ug/l #		84
59) 2-Hexanone	11.01	43	383	4.090 ug/l #		22
75) 1,1,2,2-Tetrachloroethane	12.77	83	1377	3.784 ug/l #		37
76) 1,2,3-Trichloropropane	12.64	75	16044	61.863 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.64	75	16044	140.286 ug/l #		12
90) Hexachloroethane	14.10	117	840	2.132 ug/l #		9
92) 1,2-Dibromo-3-Chloropropan	14.48	75	70	1.059 ug/l #		1

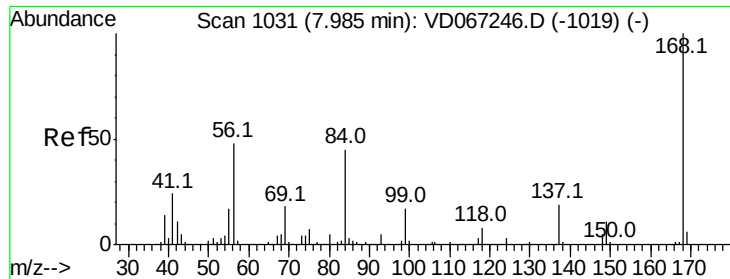
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102120\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleId :

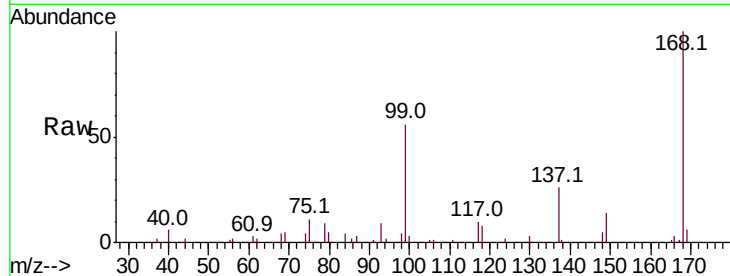
VNJ-240

Tot Ion:168 Resp: 33336

Ion Ratio Lower Upper

168 100

99 55.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

15000

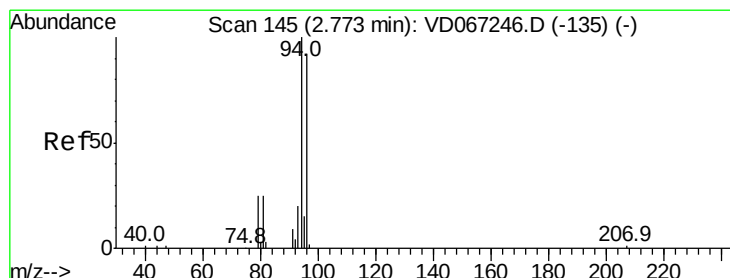
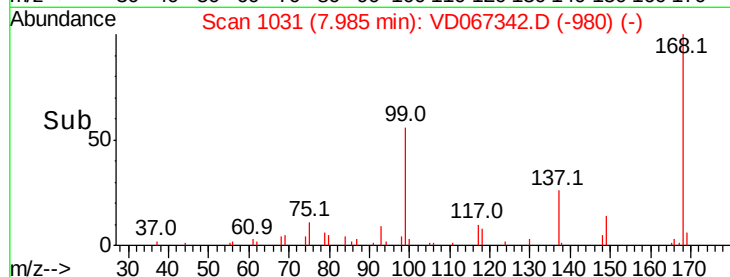
10000

5000

0

Time-->

7.90 7.95 8.00 8.05



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067342.D

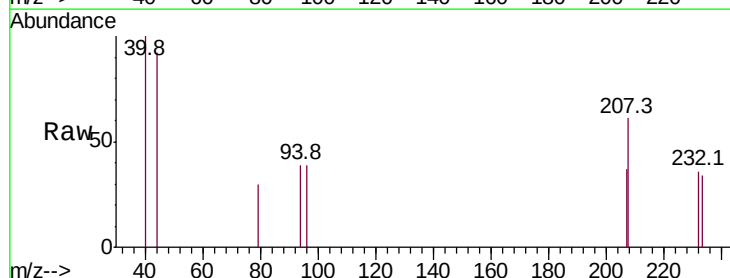
Acq: 21 Oct 2020 12:42

Tgt Ion: 94 Resp: 138

Ion Ratio Lower Upper

94 100

96 99.1 73.8 110.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.78

250

200

150

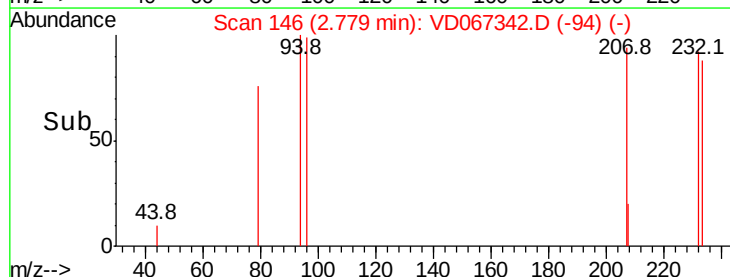
100

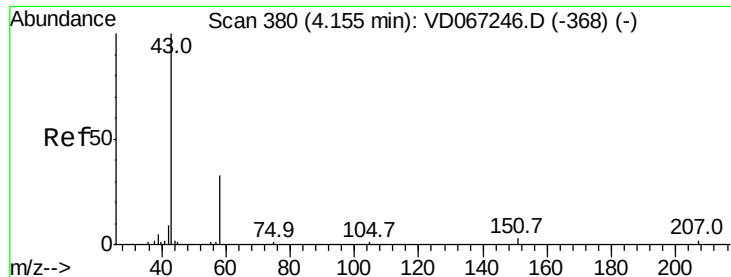
50

0

Time-->

2.76 2.78 2.80





#16

Acetone

Concen: 1.347 ug/l

RT: 4.14 min Scan# 378

Delta R.T. -0.01 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleId :

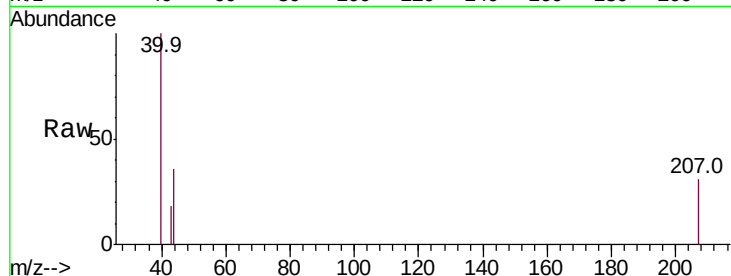
VNJ-240

Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

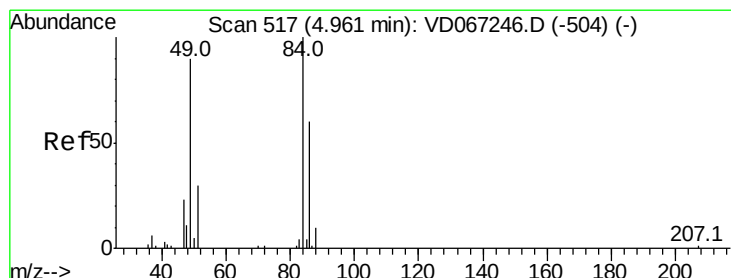
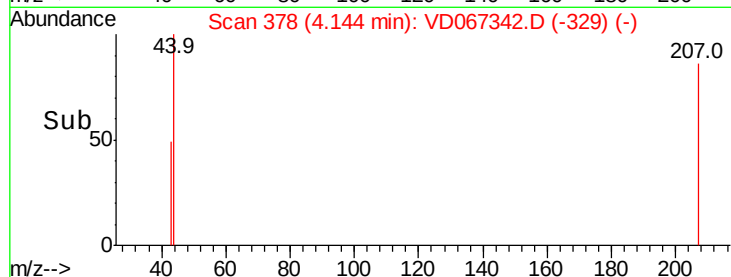
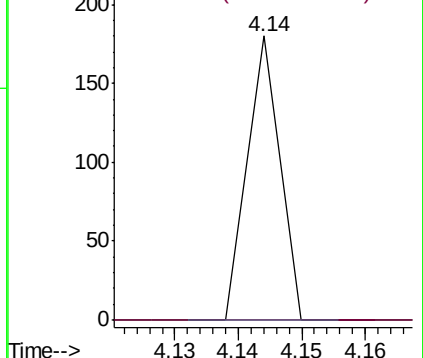
43 100

58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.95 min Scan# 515

Delta R.T. -0.01 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Tgt Ion: 84 Resp: 69

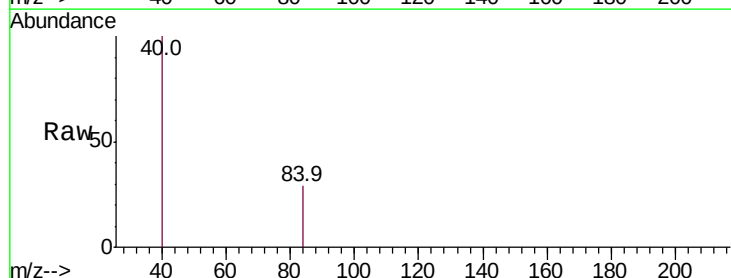
Ion Ratio Lower Upper

84 100

49 0.0 72.2 108.2#

51 0.0 23.8 35.8#

86 0.0 48.2 72.4#

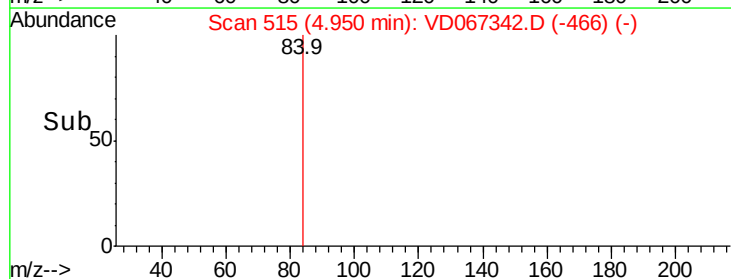
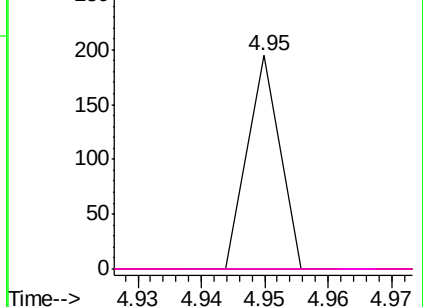


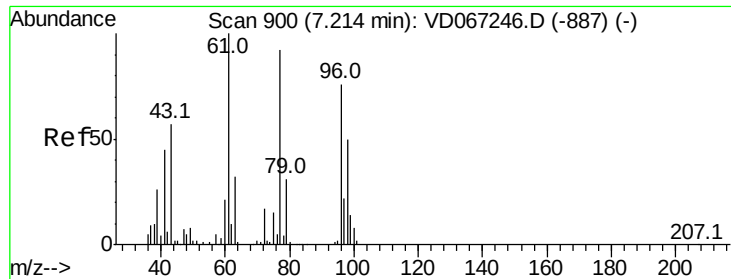
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

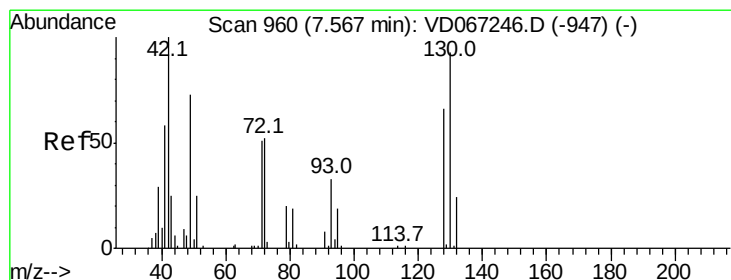
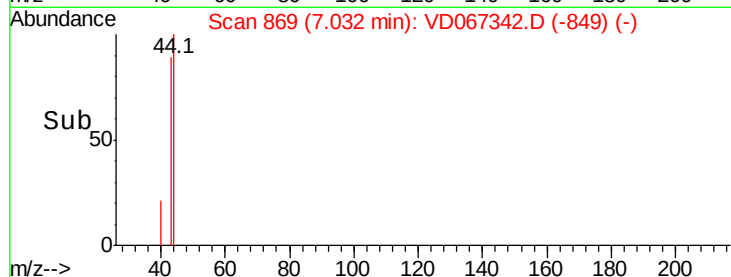
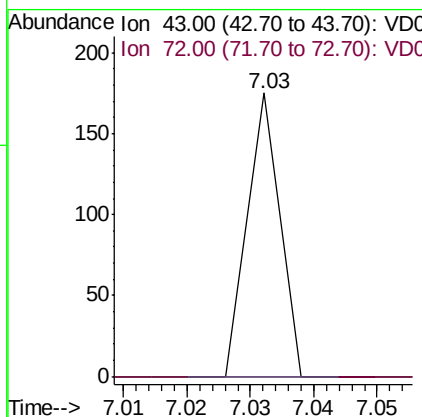
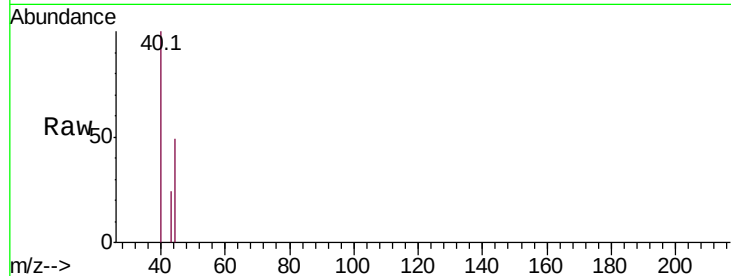




#25
2-Butanone
Concen: 1.163 ug/l
RT: 7.03 min Scan# 869
Delta R.T. -0.18 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

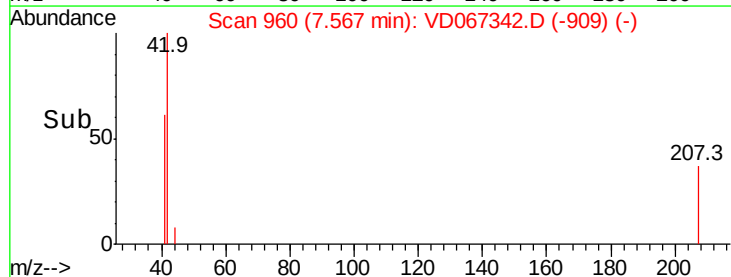
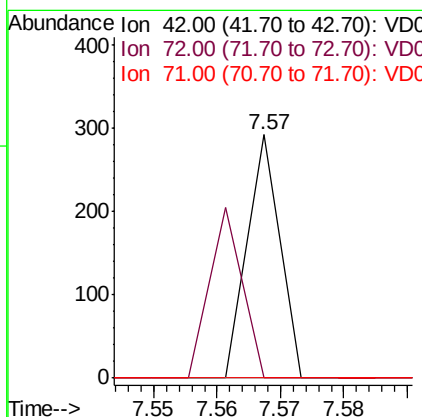
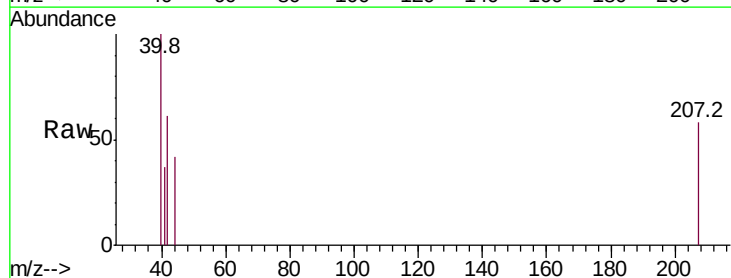
Instrument :
MSVOA_D
ClientSampleId :
VNJ-240

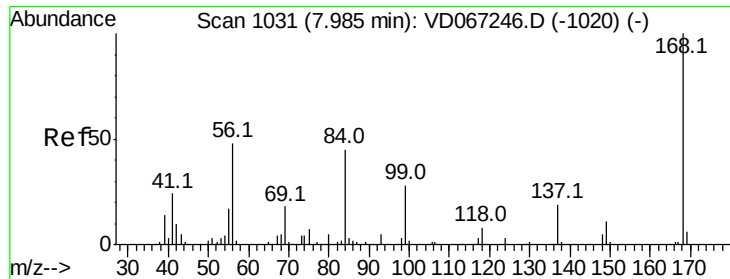
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#



#29
Tetrahydrofuran
Concen: 3.475 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.00 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

Tgt Ion: 42 Resp: 103
Ion Ratio Lower Upper
42 100
72 69.9 43.2 64.8#
71 0.0 39.4 59.0#

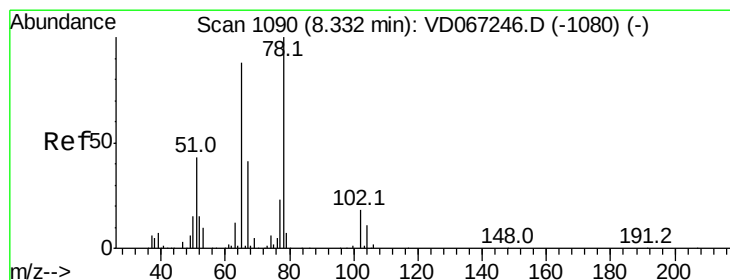
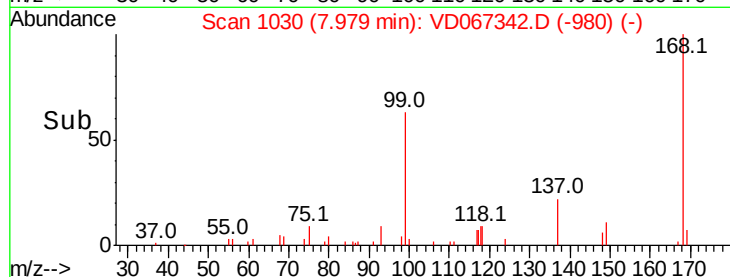
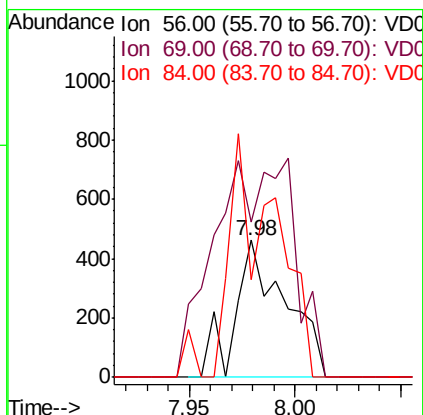
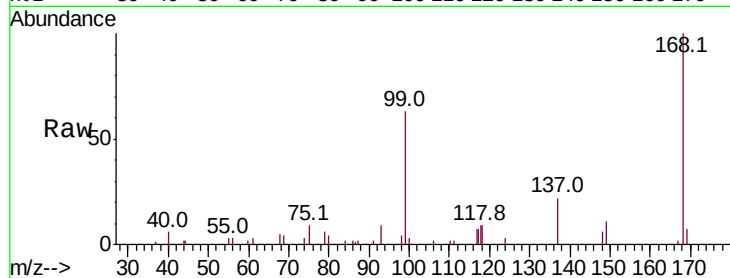




#31
Cyclohexane
Concen: 1.994 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

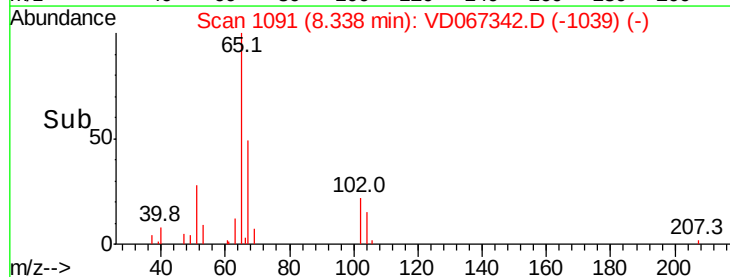
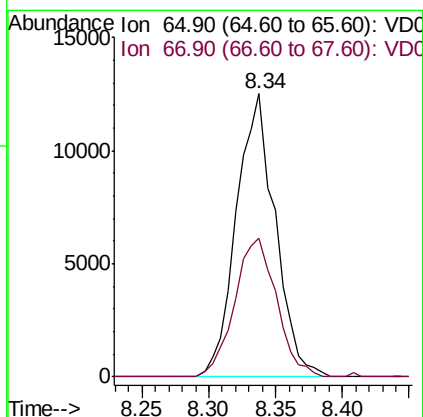
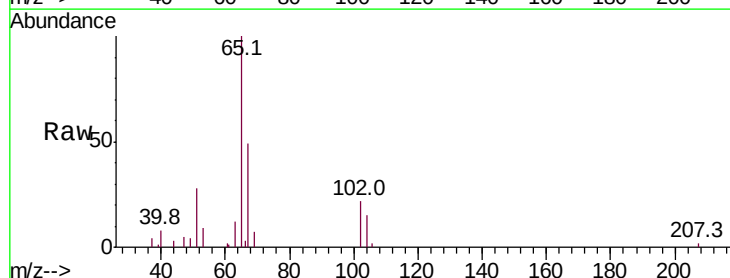
Instrument :
MSVOA_D
ClientSampleId :
VNJ-240

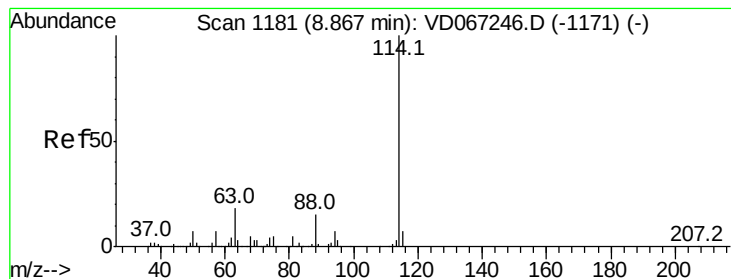
Tot Ion: 56 Resp: 767
Ion Ratio Lower Upper
56 100
69 113.7 29.8 44.6#
84 71.6 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 75.685 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

Tgt Ion: 65 Resp: 25277
Ion Ratio Lower Upper
65 100
67 53.0 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleId :

VNJ-240

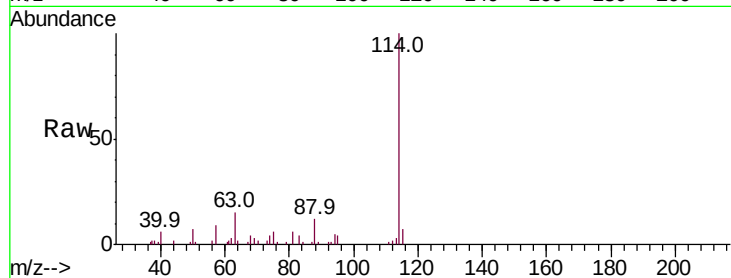
Tot Ion:114 Resp: 55524

Ion Ratio Lower Upper

114 100

63 14.6 0.0 35.0

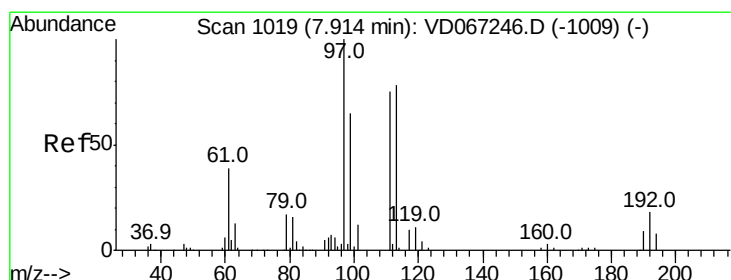
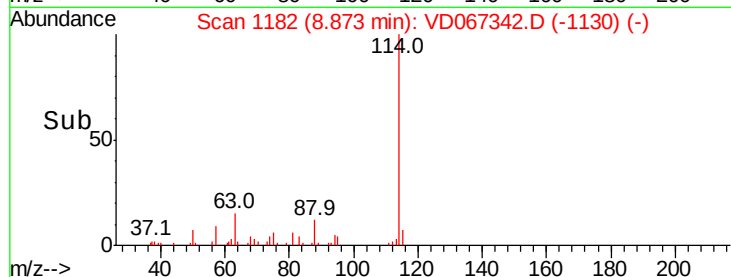
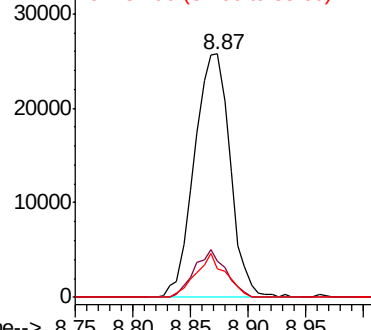
88 11.8 0.0 30.6



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: 56.082 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

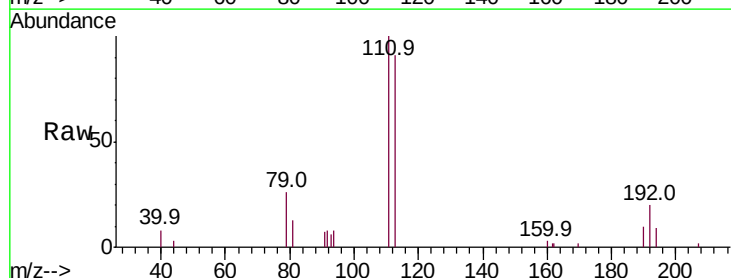
Tgt Ion:113 Resp: 20723

Ion Ratio Lower Upper

113 100

111 107.3 81.6 122.4

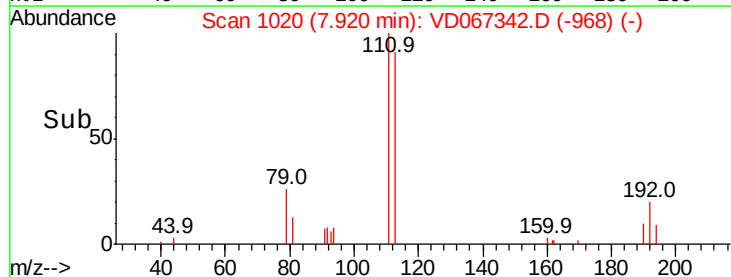
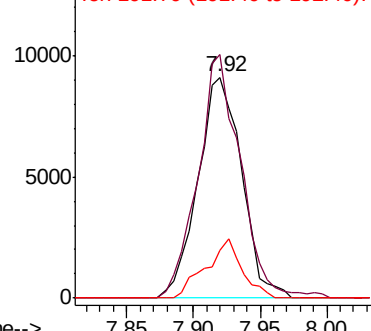
192 21.9 17.0 25.4

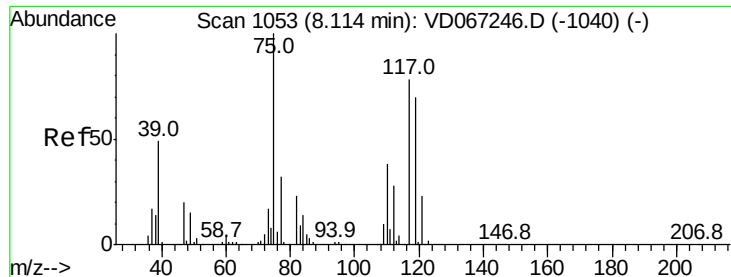


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.173 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleId :

VNJ-240

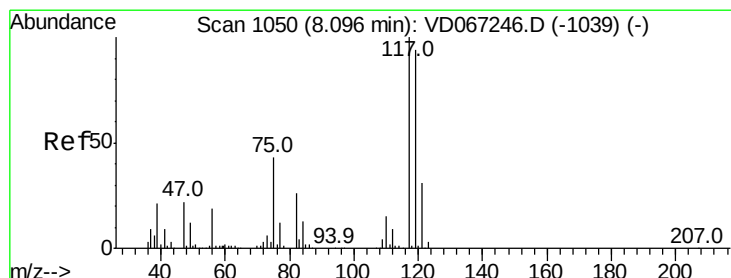
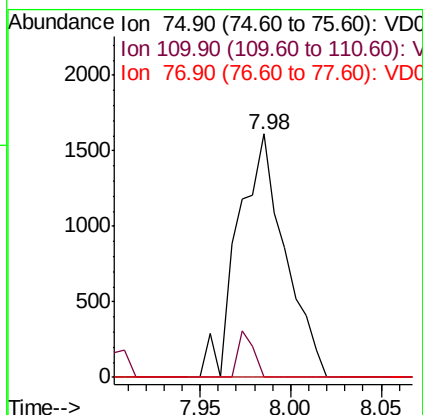
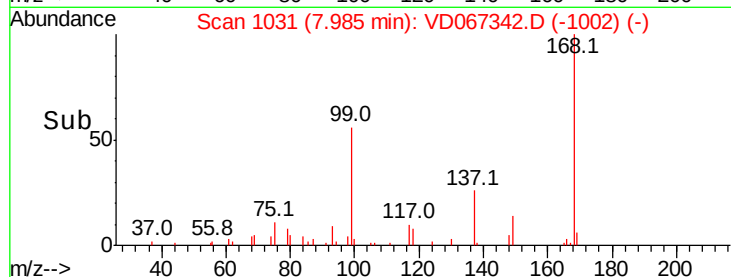
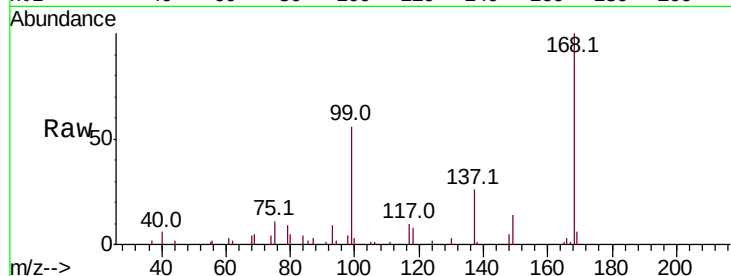
Tot Ion: 75 Resp: 2905

Ion Ratio Lower Upper

75 100

110 6.3 19.6 58.7#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 6.243 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

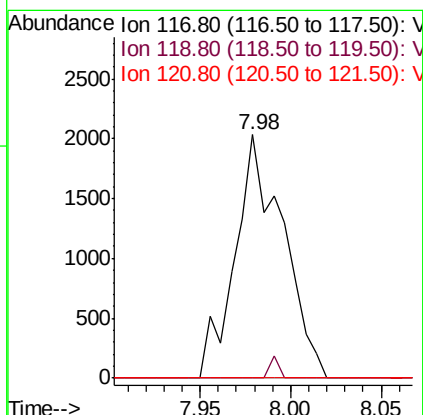
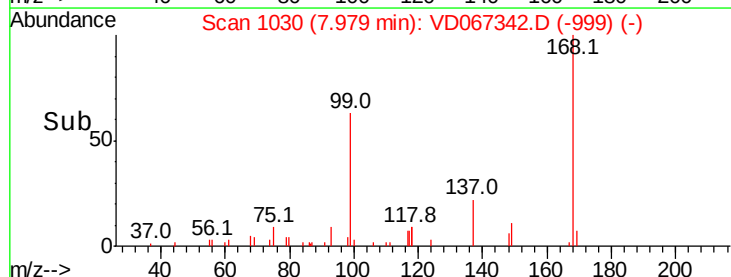
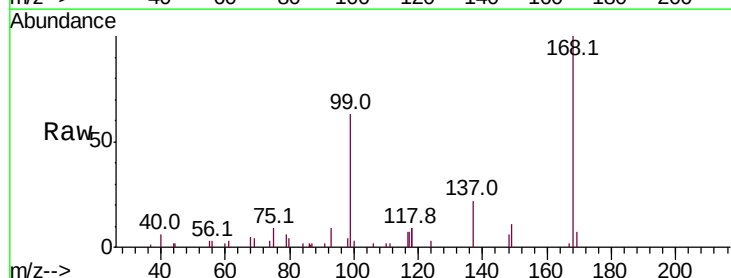
Tgt Ion: 117 Resp: 3755

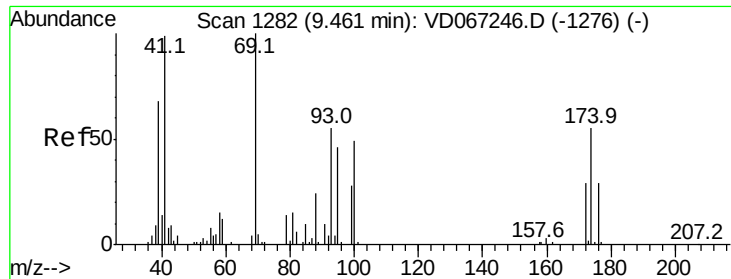
Ion Ratio Lower Upper

117 100

119 0.0 75.0 112.4#

121 0.0 24.9 37.3#

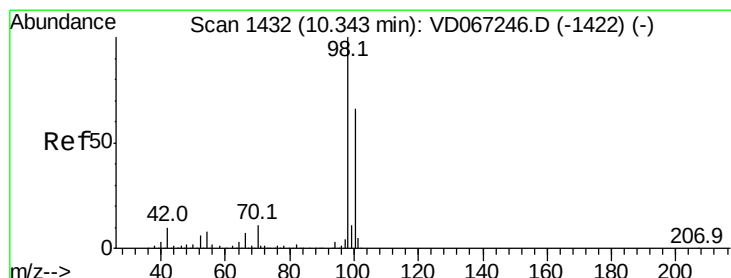
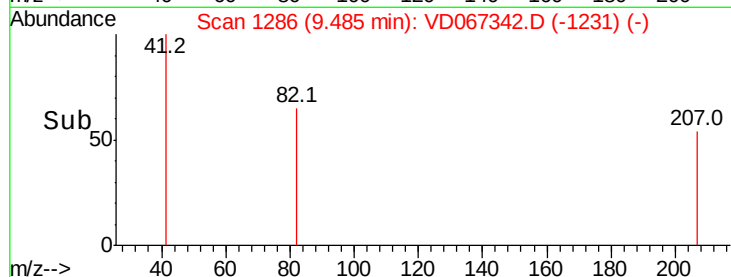
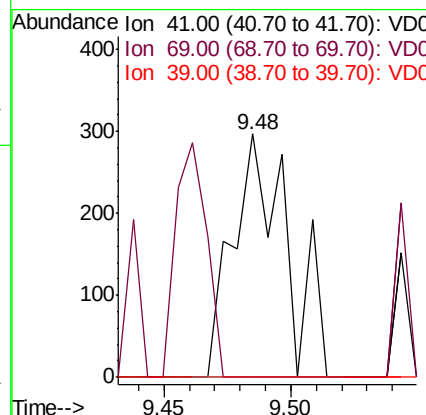
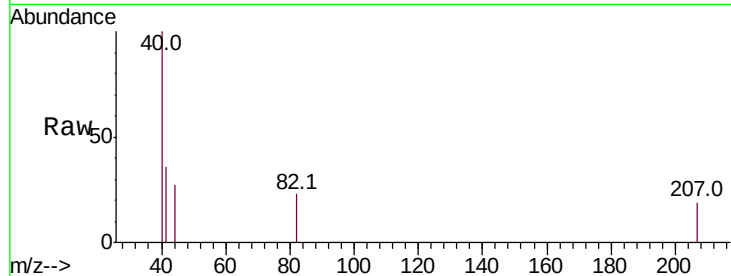




#48
Methvl methacrylate
Concen: 3.318 ug/l
RT: 9.48 min Scan# 1286
Delta R.T. 0.02 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

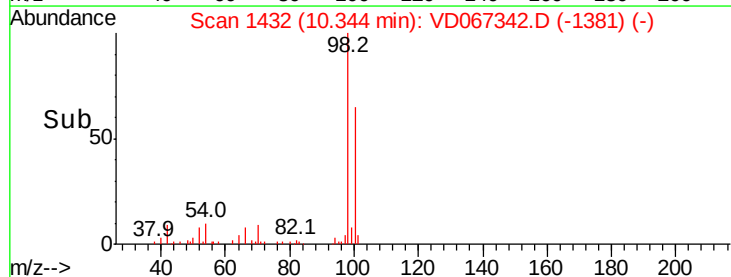
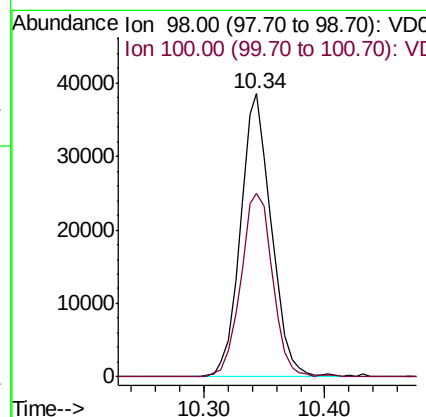
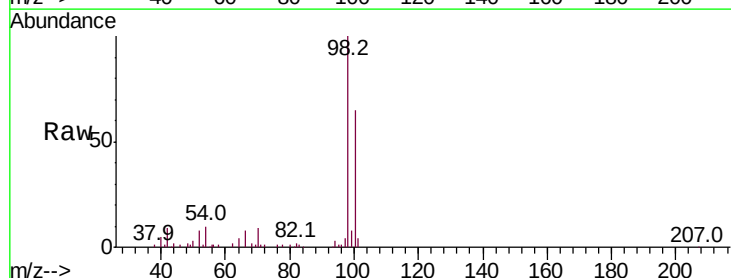
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VNJ-240

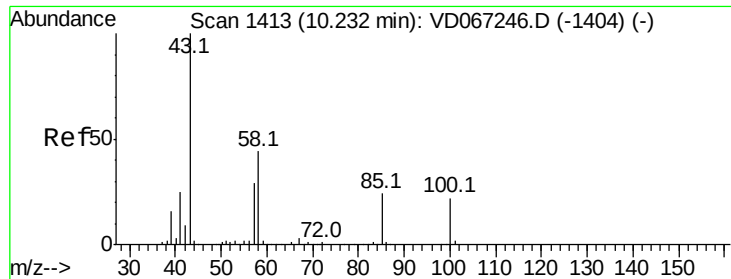
Tot Ion: 41 Resp: 443
Ion Ratio Lower Upper
41 100
69 0.0 89.0 133.6#
39 0.0 60.2 90.2#



#50
Toluene-d8
Concen: 51.079 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

Tgt Ion: 98 Resp: 68304
Ion Ratio Lower Upper
98 100
100 66.7 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 1.474 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleID :

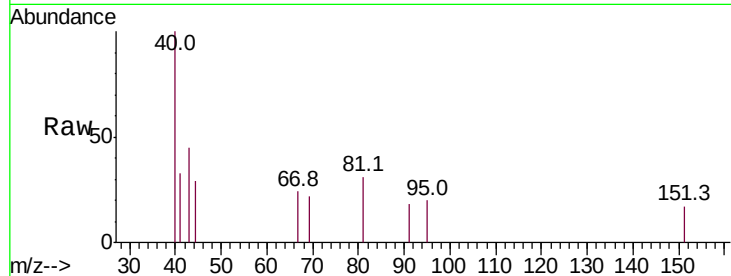
VNJ-240

Tot Ion: 43 Resp: 202

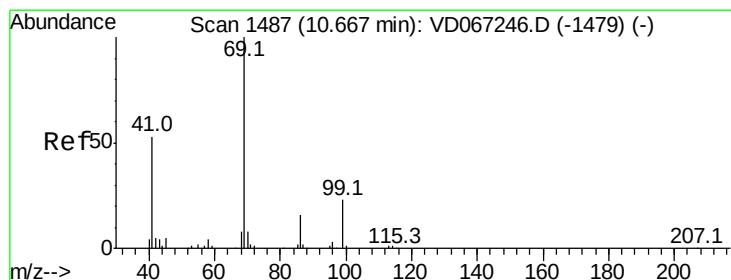
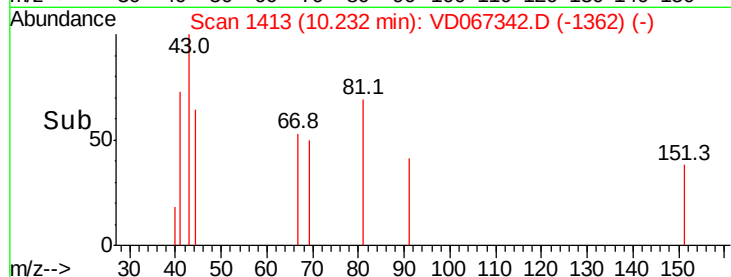
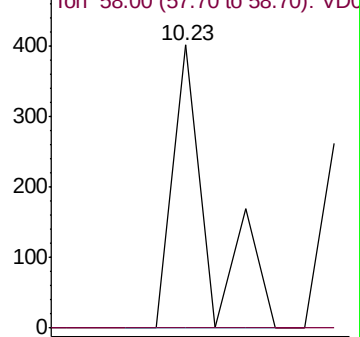
Ion Ratio Lower Upper

43 100

58 0.0 35.7 53.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC



#56

Ethyl methacrylate

Concen: 1.218 ug/l

RT: 10.67 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

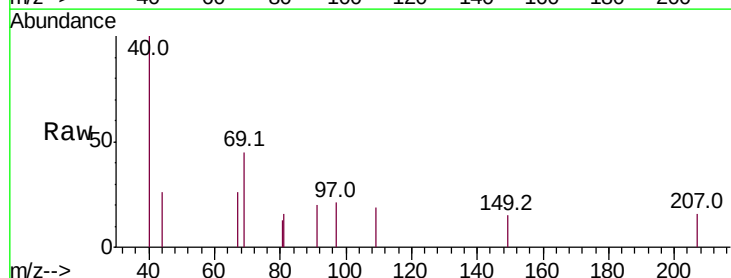
Tgt Ion: 69 Resp: 321

Ion Ratio Lower Upper

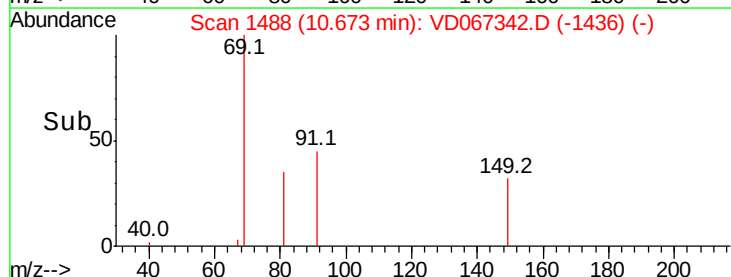
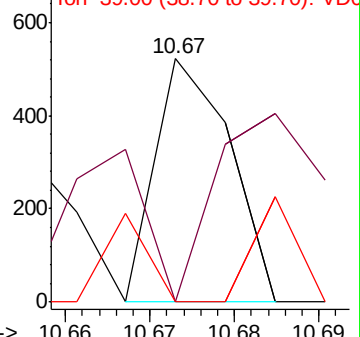
69 100

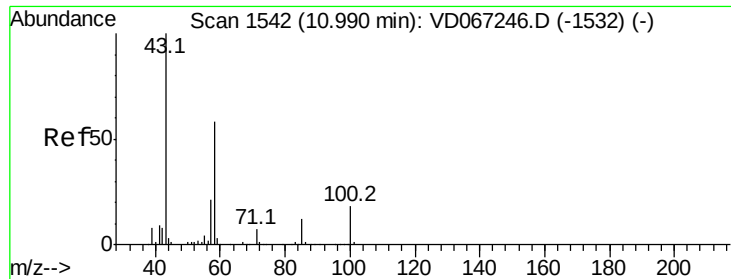
41 65.1 44.7 67.1

39 20.9 26.2 39.2#



Abundance Ion 69.00 (68.70 to 69.70): VDC





#59

2-Hexanone

Concen: 4.090 ug/l

RT: 11.01 min Scan# 1546

Delta R.T. 0.02 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleId :

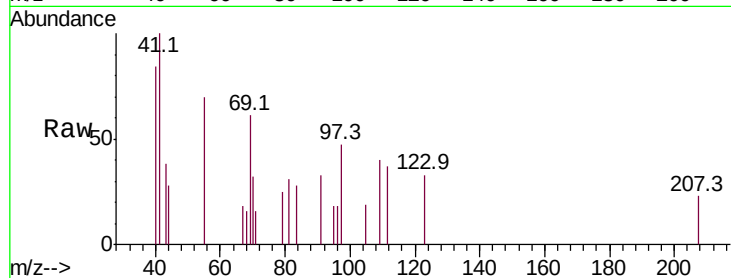
VNJ-240

Tot Ion: 43 Resp: 383

Ion Ratio Lower Upper

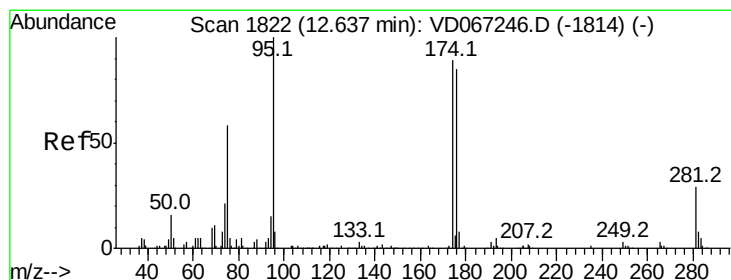
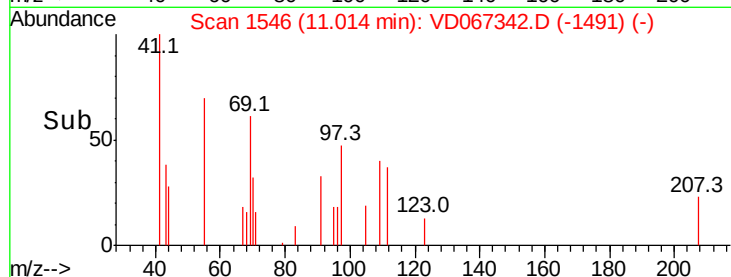
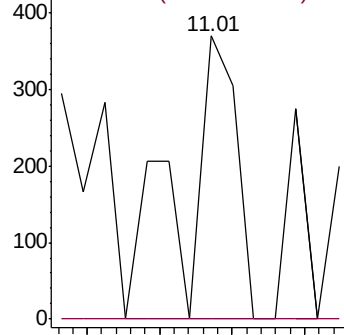
43 100

58 0.0 29.3 87.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 70.071 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

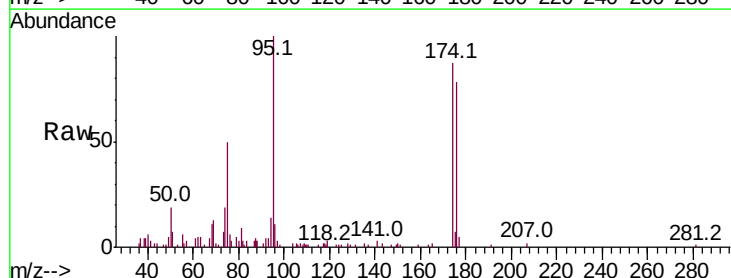
Tgt Ion: 95 Resp: 32582

Ion Ratio Lower Upper

95 100

174 89.5 0.0 175.2

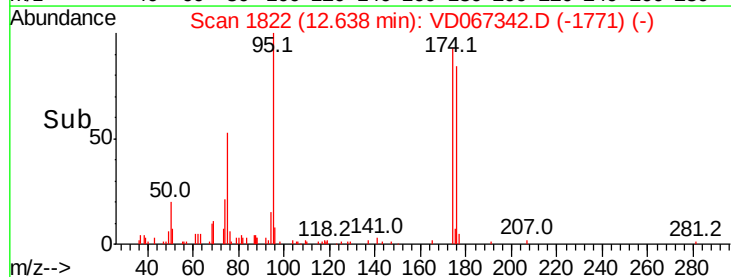
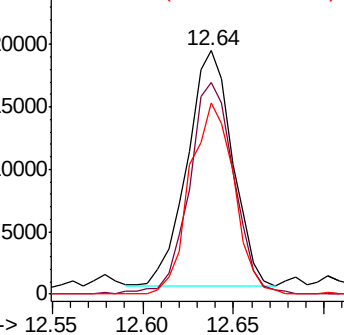
176 79.5 0.0 168.6

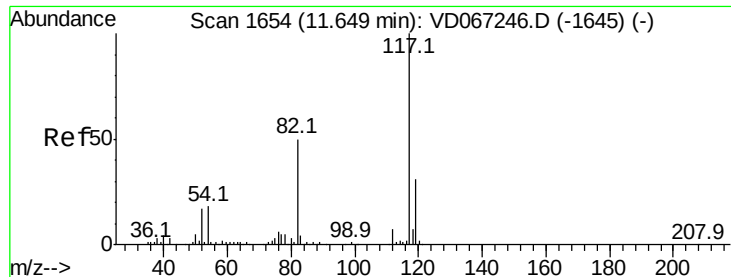


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

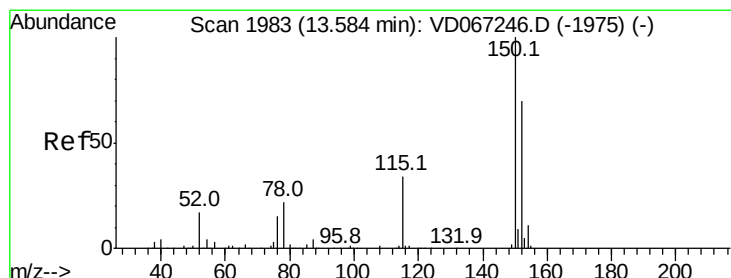
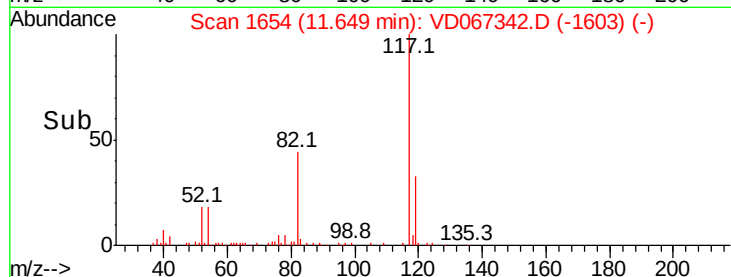
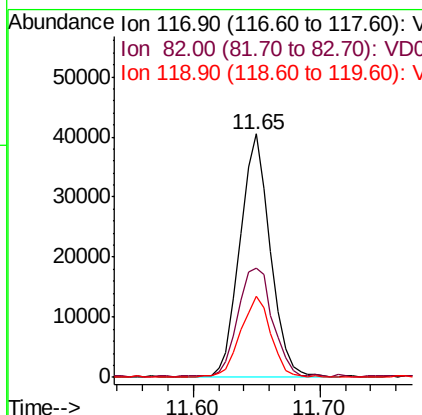
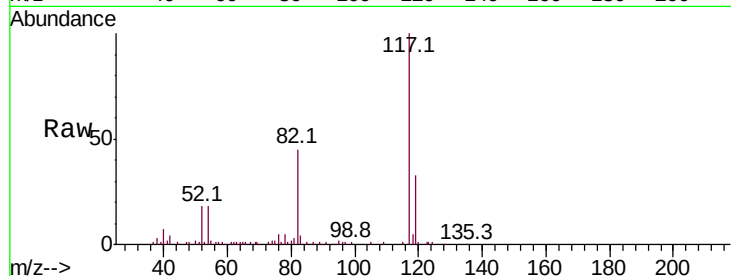




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

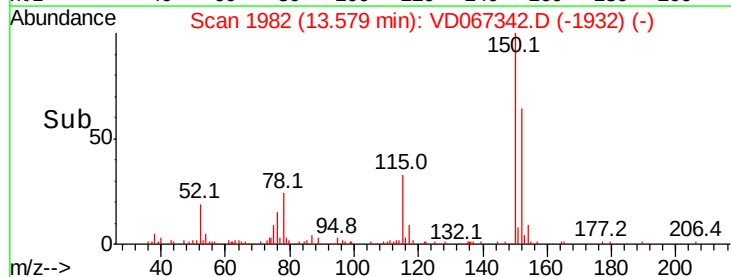
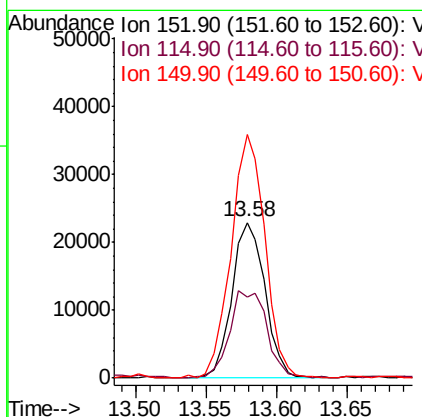
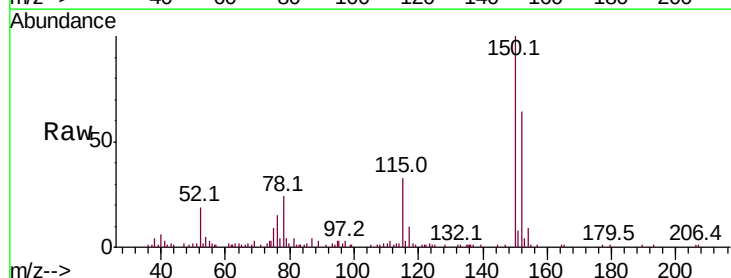
Instrument :
MSVOA_D
ClientSampled :
VNJ-240

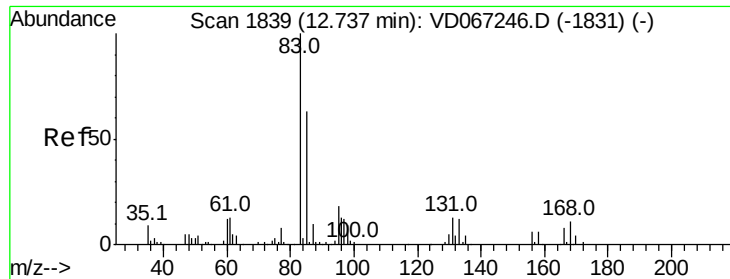
Tot Ion:117 Resp: 67393
Ion Ratio Lower Upper
117 100
82 44.2 39.9 59.9
119 33.2 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

Tgt Ion:152 Resp: 37419
Ion Ratio Lower Upper
152 100
115 62.6 29.3 87.9
150 160.2 0.0 339.0





#75

1,1,2,2-Tetrachloroethane

Concen: 3.784 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. 0.04 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleId :

VNJ-240

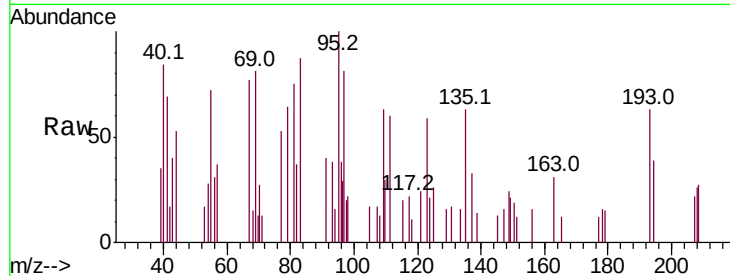
Tot Ion: 83 Resp: 1377

Ion Ratio Lower Upper

83 100

131 0.0 6.5 19.5#

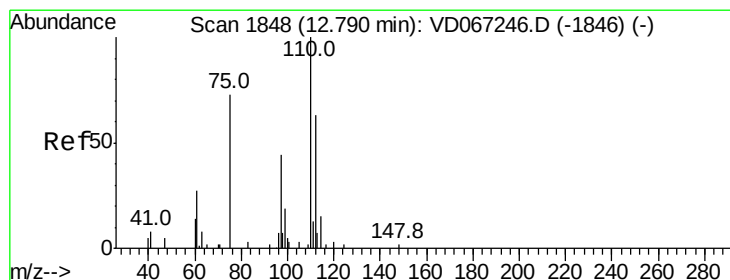
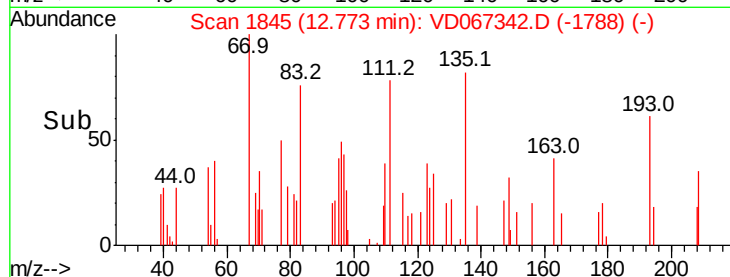
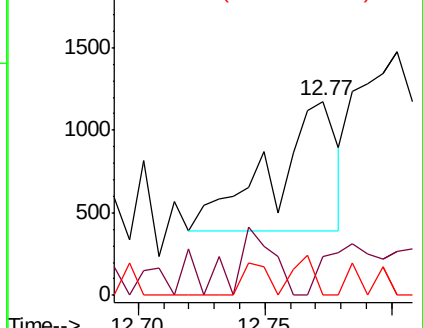
85 10.2 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 61.863 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067342.D

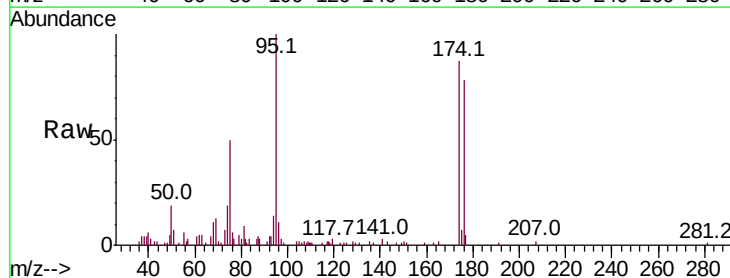
Acq: 21 Oct 2020 12:42

Tgt Ion: 75 Resp: 16044

Ion Ratio Lower Upper

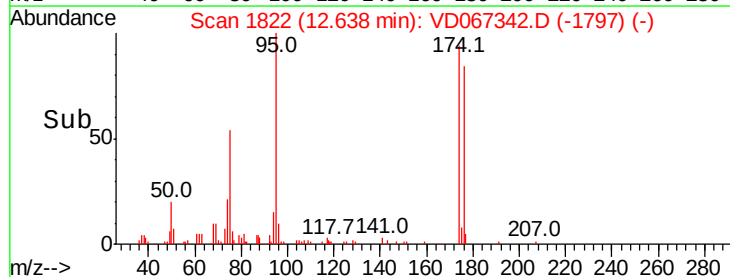
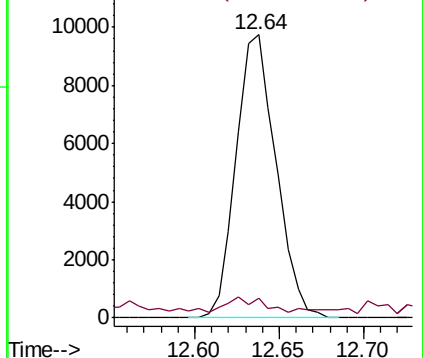
75 100

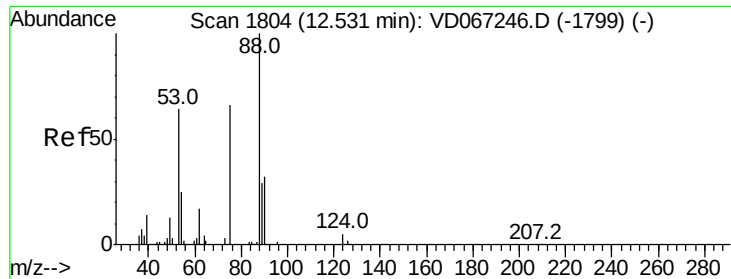
77 4.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

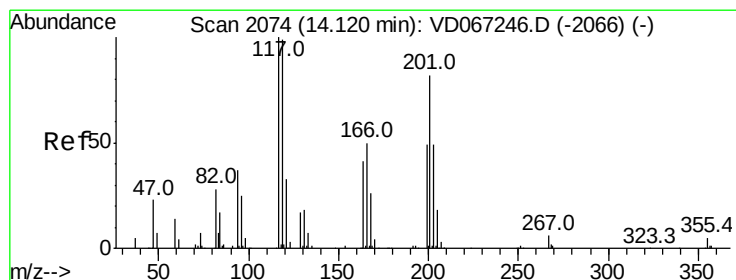
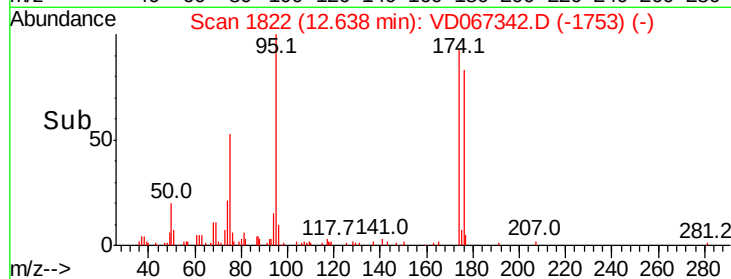
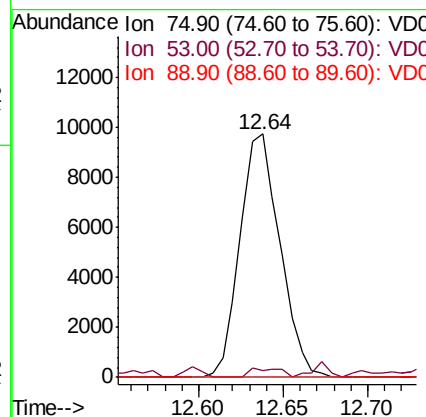
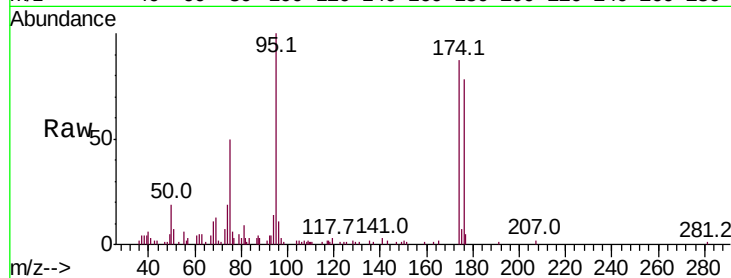




#81
trans-1,4-Dichloro-2-butene
Concen: 140.286 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

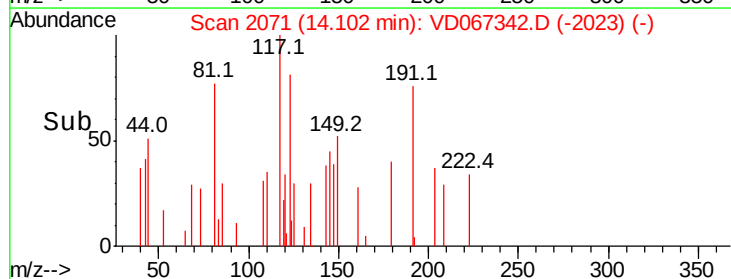
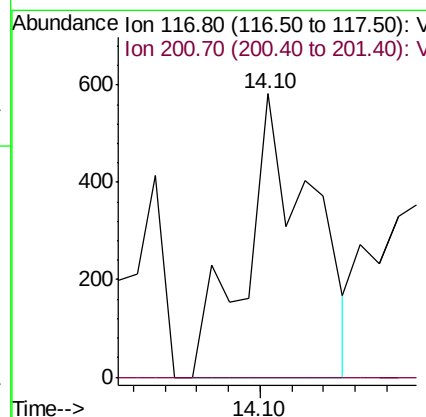
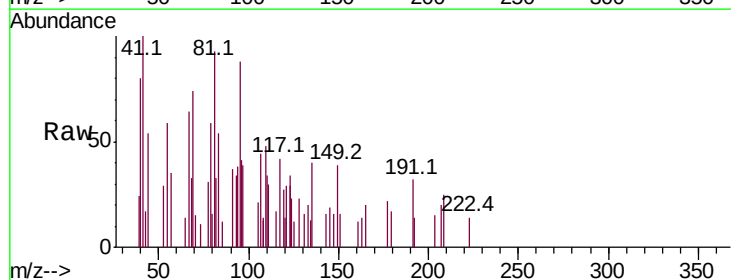
Instrument :
MSVOA_D
ClientSampleId :
VNJ-240

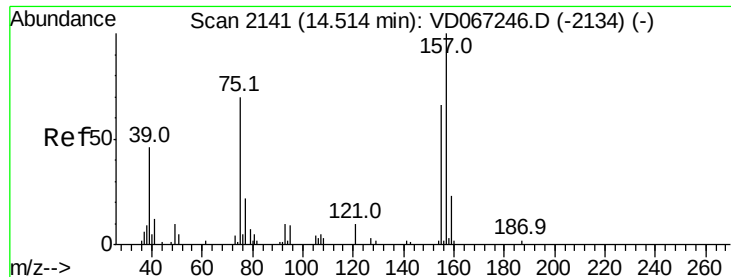
Tot Ion: 75 Resp: 16044
Ion Ratio Lower Upper
75 100
53 2.9 78.5 117.7#
89 0.0 39.9 59.9#



#90
Hexachloroethane
Concen: 2.132 ug/l
RT: 14.10 min Scan# 2071
Delta R.T. -0.02 min
Lab File: VD067342.D
Acq: 21 Oct 2020 12:42

Tgt Ion: 117 Resp: 840
Ion Ratio Lower Upper
117 100
201 0.0 40.8 122.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.059 ug/l

RT: 14.48 min Scan# 2136

Delta R.T. -0.03 min

Lab File: VD067342.D

Acq: 21 Oct 2020 12:42

Instrument :

MSVOA_D

ClientSampleId :

VNJ-240

Tot Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 527.1 62.5 187.4#

