

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120320\
 Data File : VD067873.D
 Acq On : 03 Dec 2020 17:54
 Operator : VA/SY
 Sample : L4935-01RE
 Misc : 7.33G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-12220RE

Quant Time: Dec 04 01:09:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 02 08:05:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	104613	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	145221	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	137792	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	67081	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	65676	58.48	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	116.96%
35) Dibromofluoromethane	7.92	113	50045	51.50	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.00%
50) Toluene-d8	10.34	98	166748	47.67	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	95.34%
62) 4-Bromofluorobenzene	12.63	95	55223	45.66	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	91.32%

Target Compounds

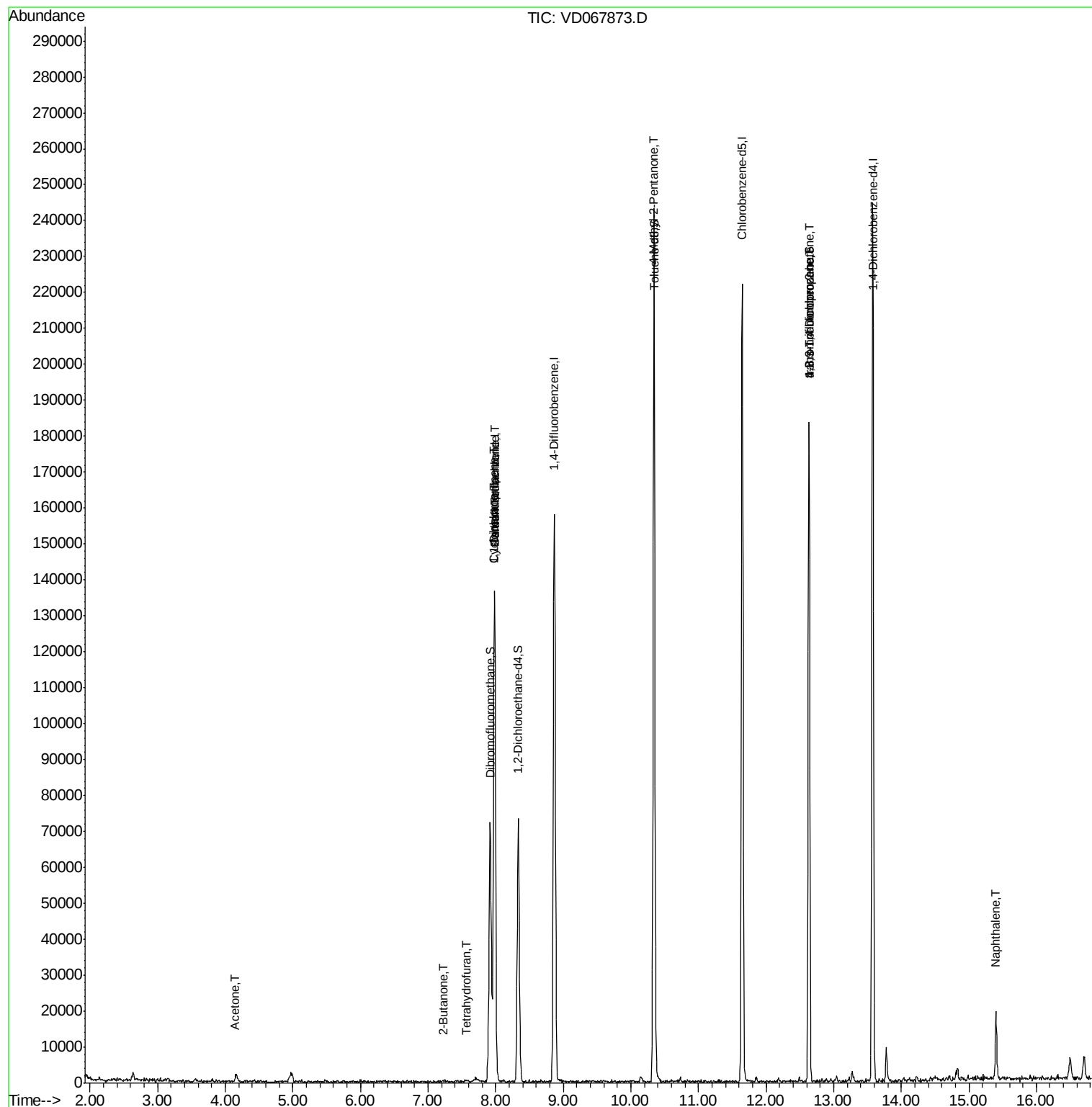
					Qvalue	
16) Acetone	4.15	43	1186	8.546	ug/l	97
20) Methylene Chloride	4.97	84	2270	Below Cal	#	66
25) 2-Butanone	7.22	43	222	1.521	ug/l #	36
29) Tetrahydrofuran	7.56	42	296	3.562	ug/l #	61
31) Cyclohexane	7.97	56	2026	1.712	ug/l #	66
36) 1,1-Dichloropropene	7.97	75	7492	5.959	ug/l #	51
38) Carbon Tetrachloride	7.98	117	10946	5.755	ug/l #	16
41) Methacrylonitrile	7.56	41	55	Below Cal	#	15
51) 4-Methyl-2-Pentanone	10.33	43	547	1.734	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	29243	59.862	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.64	75	29243	143.196	ug/l #	7
95) Naphthalene	15.40	128	16529	7.568	ug/l	97

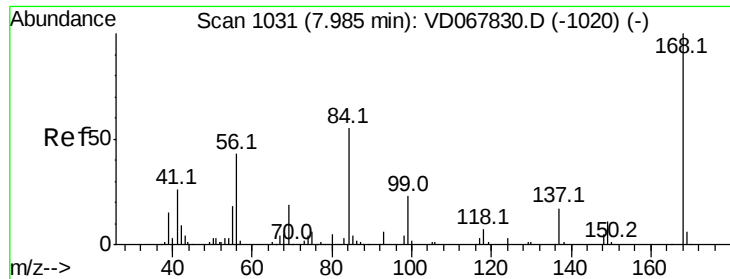
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

Instrument :

MSVOA_D

ClientSampleId :

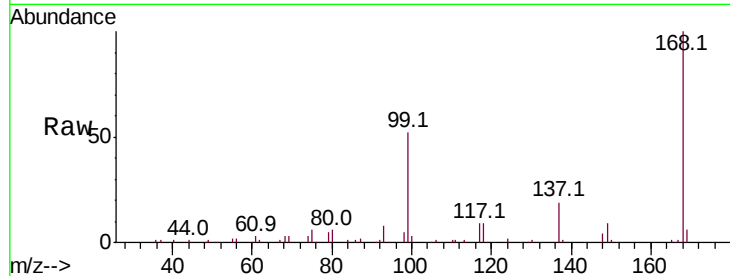
OK-02-12220RE

Tot Ion:168 Resp: 104613

Ion Ratio Lower Upper

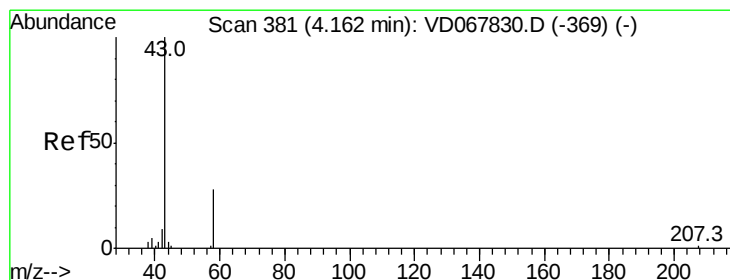
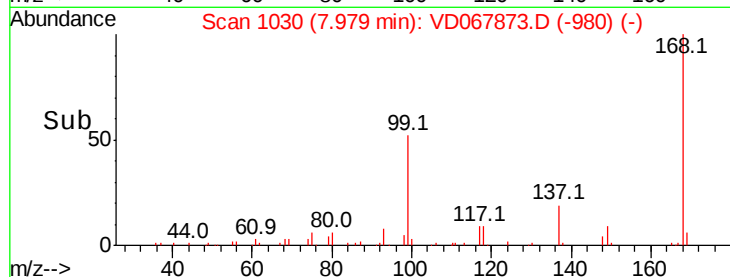
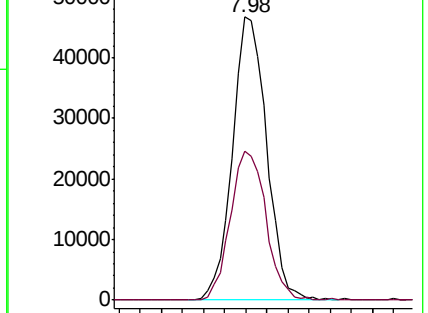
168 100

99 52.4 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 8.546 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD067873.D

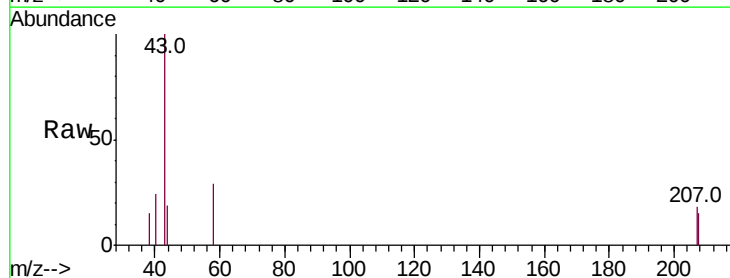
Acq: 03 Dec 2020 17:54

Tgt Ion: 43 Resp: 1186

Ion Ratio Lower Upper

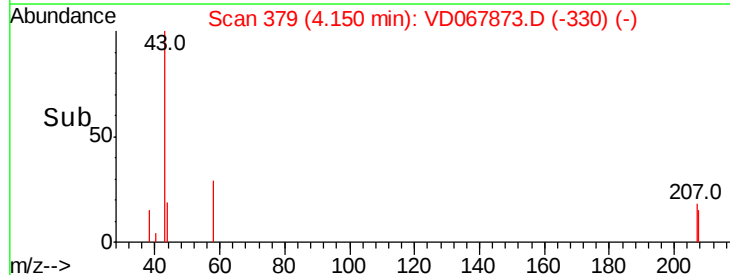
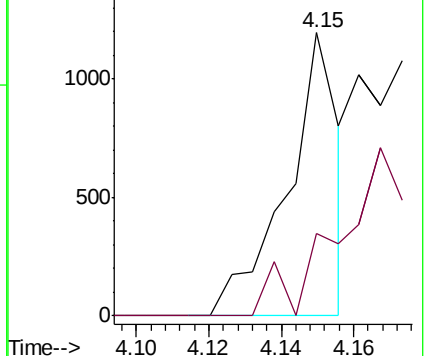
43 100

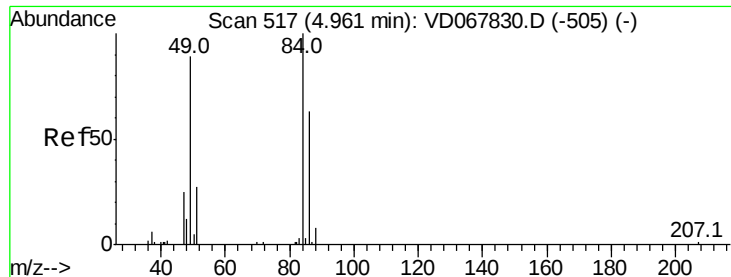
58 29.0 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

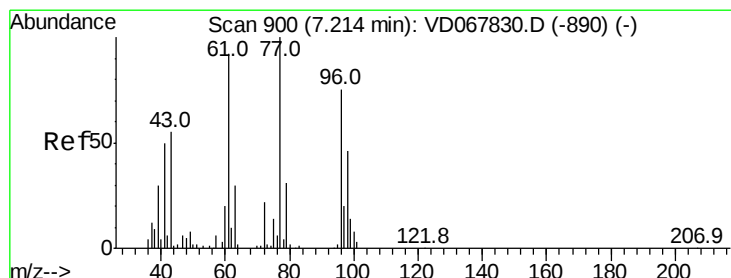
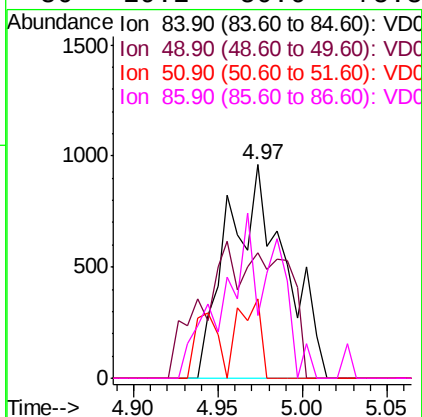
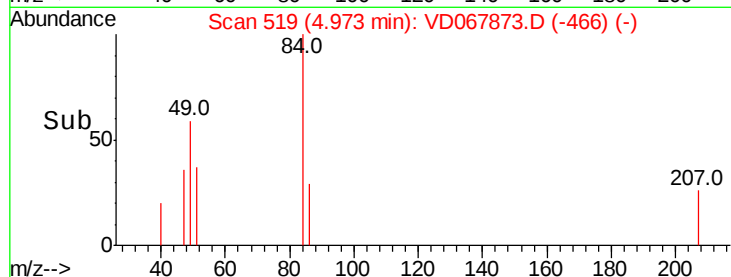
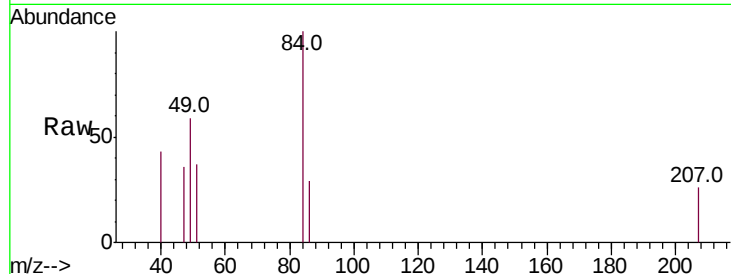




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067873.D
Acq: 03 Dec 2020 17:54

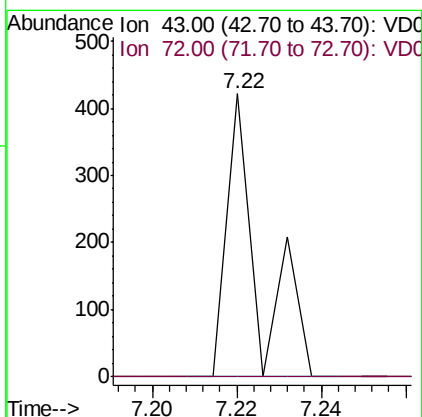
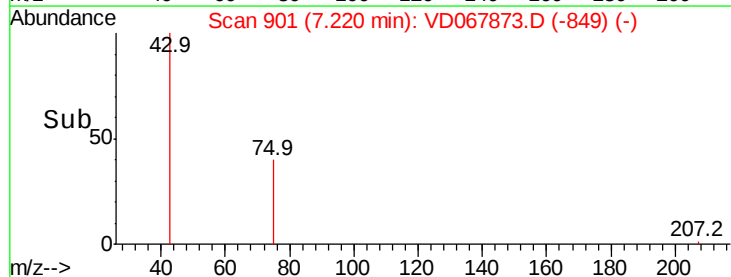
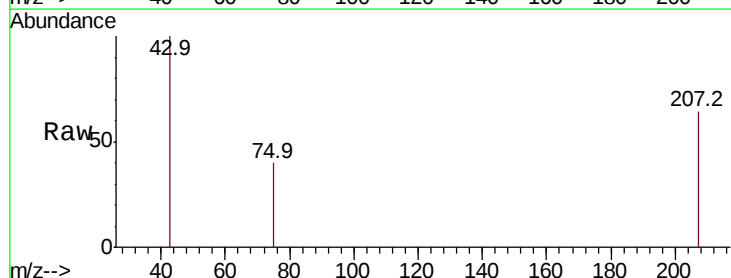
Instrument :
MSVOA_D
ClientSampleId :
OK-02-12220RE

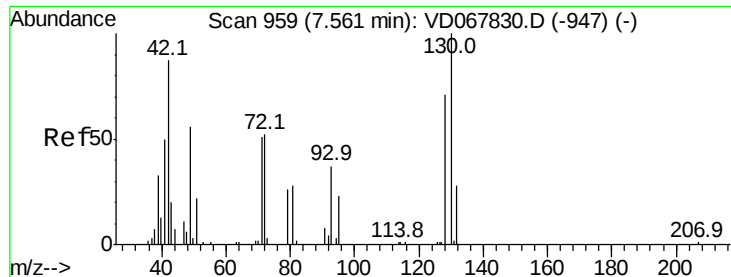
Tot Ion: 84 Resp: 2270
Ion Ratio Lower Upper
84 100
49 59.0 71.4 107.0#
51 37.1 21.8 32.8#
86 29.2 50.6 75.8#



#25
2-Butanone
Concen: 1.521 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD067873.D
Acq: 03 Dec 2020 17:54

Tgt Ion: 43 Resp: 222
Ion Ratio Lower Upper
43 100
72 0.0 31.3 46.9#





#29

Tetrahydrofuran

Concen: 3.562 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.00 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

Instrument :

MSVOA_D

ClientSampleId :

OK-02-12220RE

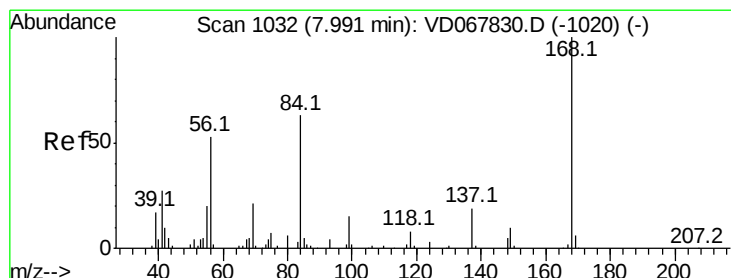
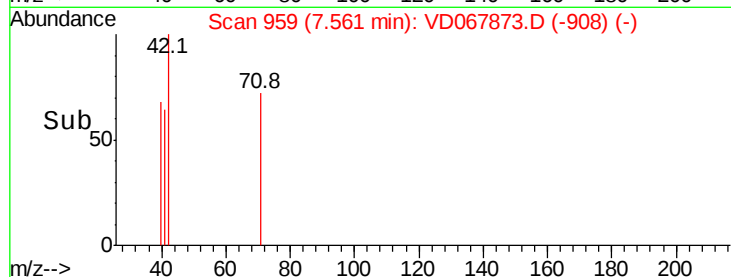
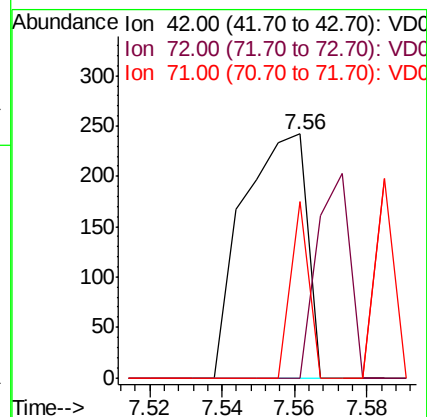
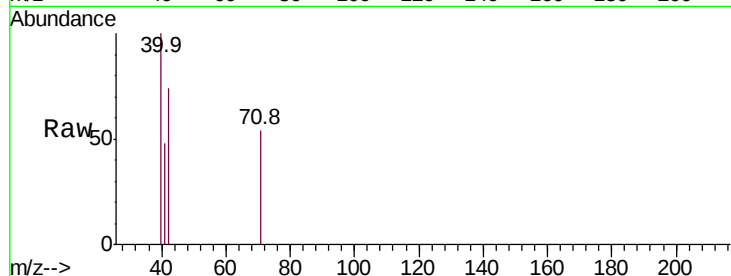
Tot Ion: 42 Resp: 296

Ion Ratio Lower Upper

42 100

72 43.2 51.9 77.9#

71 20.9 48.2 72.4#



#31

Cyclohexane

Concen: 1.712 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.02 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

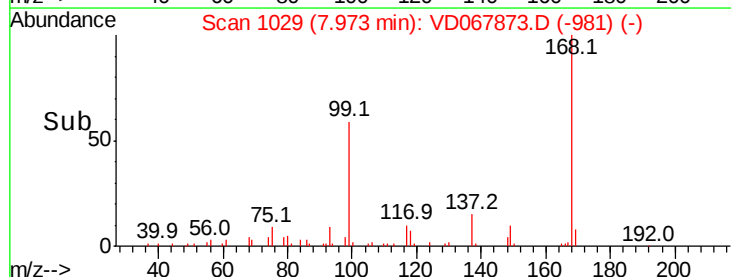
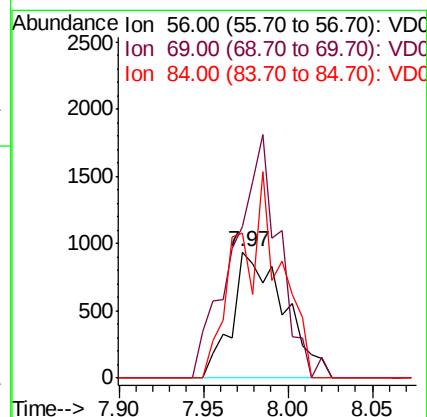
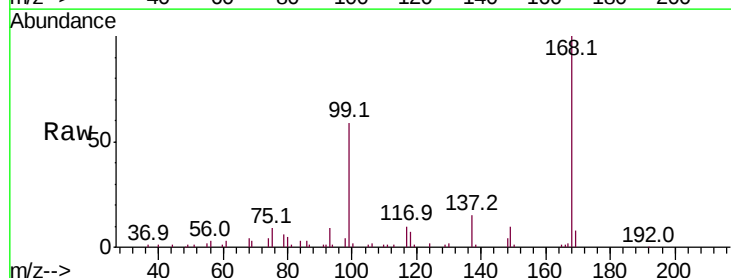
Tgt Ion: 56 Resp: 2026

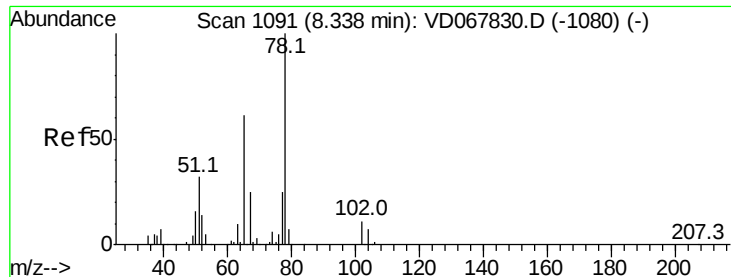
Ion Ratio Lower Upper

56 100

69 119.8 32.1 48.1#

84 115.5 93.2 139.8

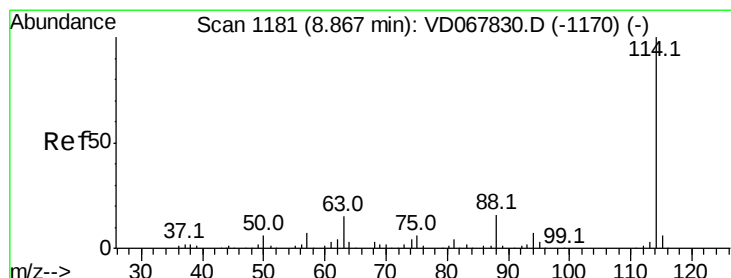
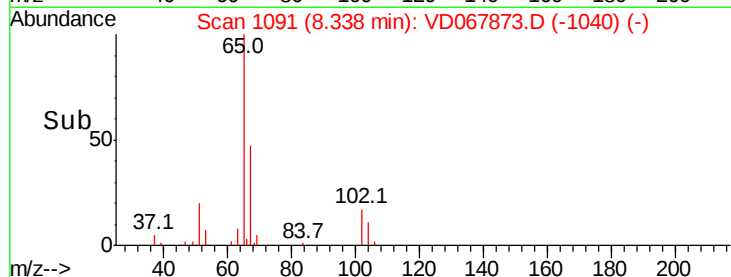
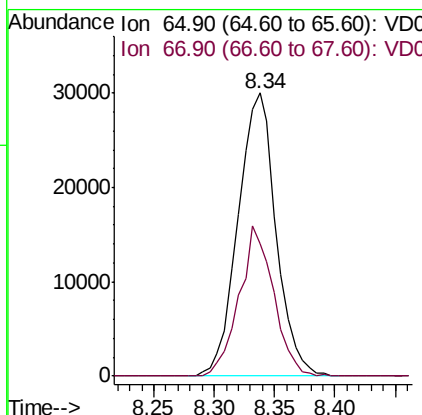
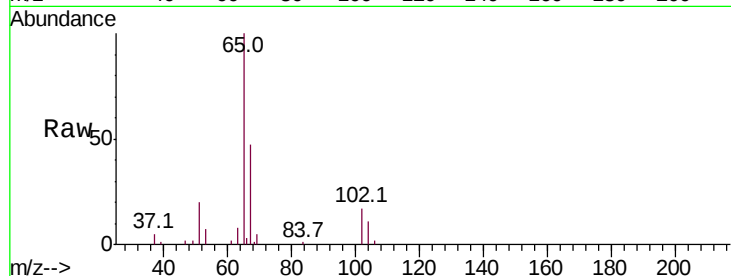




#33
 1,2-Dichloroethane-d4
 Concen: 58.479 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD067873.D
 Acq: 03 Dec 2020 17:54

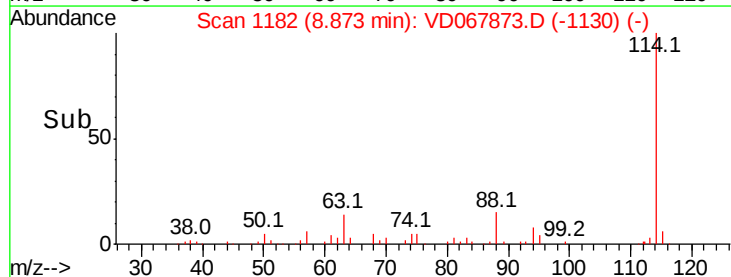
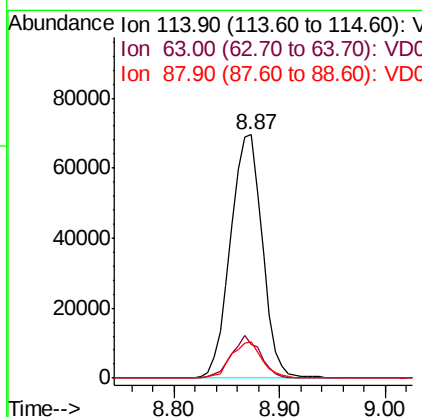
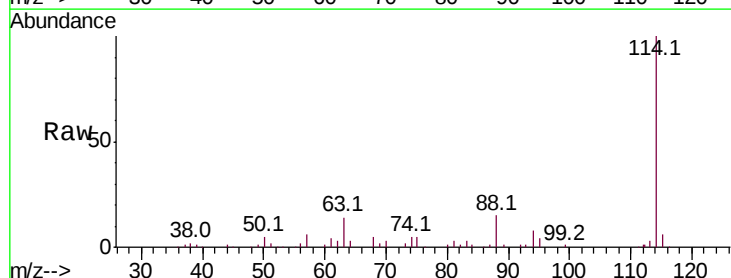
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-12220RE

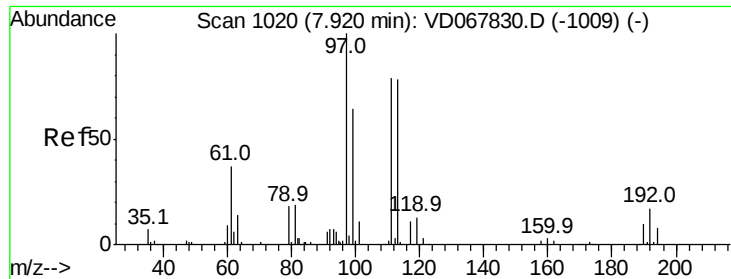
Tot Ion: 65 Resp: 65676
 Ion Ratio Lower Upper
 65 100
 67 48.2 0.0 92.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD067873.D
 Acq: 03 Dec 2020 17:54

Tgt Ion: 114 Resp: 145221
 Ion Ratio Lower Upper
 114 100
 63 14.0 0.0 30.8
 88 14.9 0.0 31.8

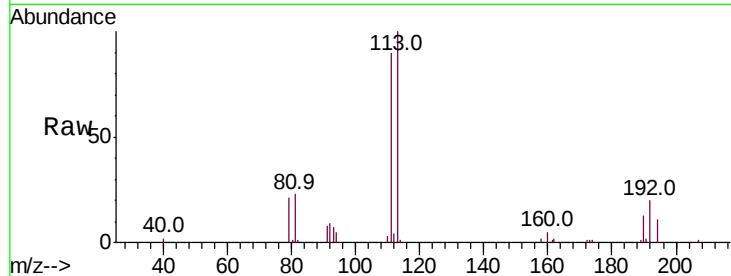




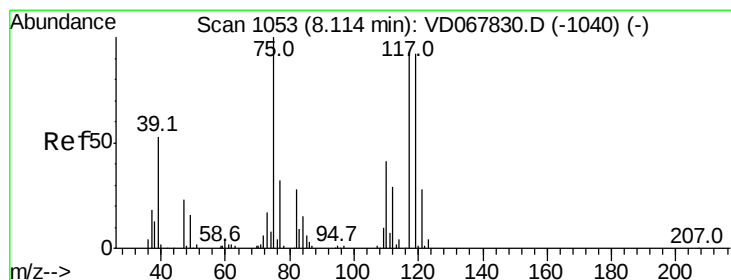
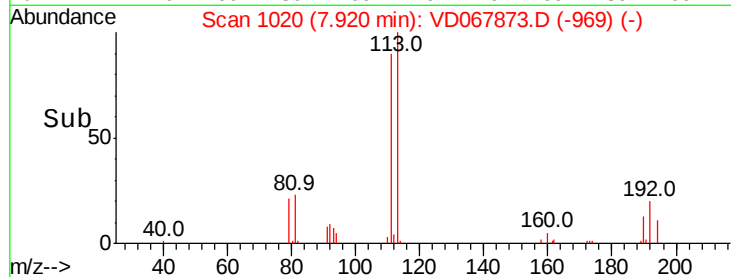
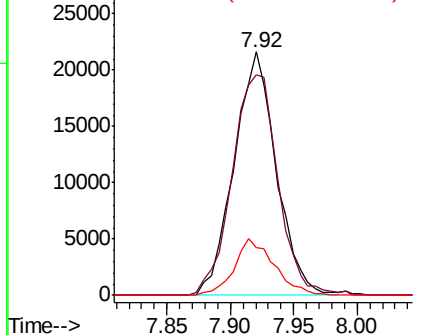
#35
 Dibromofluoromethane
 Concen: 51.500 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD067873.D
 Acq: 03 Dec 2020 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-12220RE

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.9	81.2	121.8
192	21.9	16.8	25.2

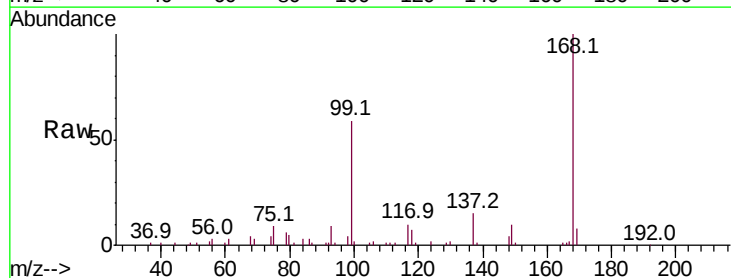


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

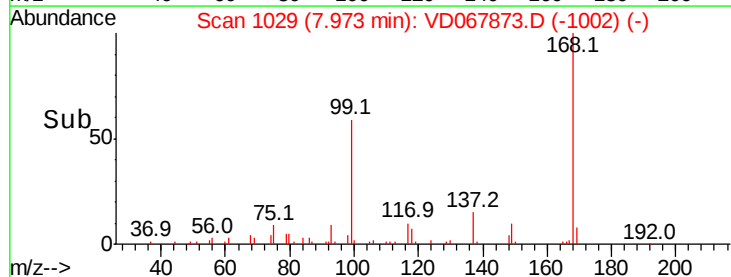
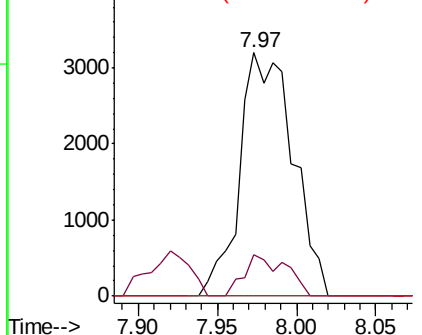


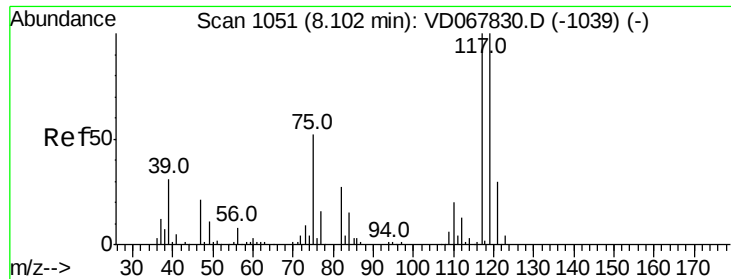
#36
 1,1-Dichloropropene
 Concen: 5.959 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD067873.D
 Acq: 03 Dec 2020 17:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	13.1	20.3	61.0#
77	0.0	24.7	37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VDC





#38

Carbon Tetrachloride

Concen: 5.755 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

Instrument :

MSVOA_D

ClientSampleId :

OK-02-12220RE

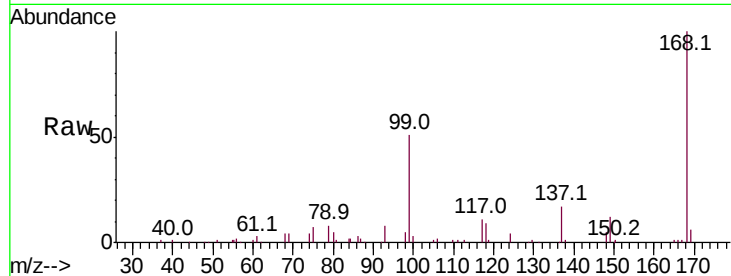
Tot Ion:117 Resp: 10946

Ion Ratio Lower Upper

117 100

119 7.3 79.7 119.5#

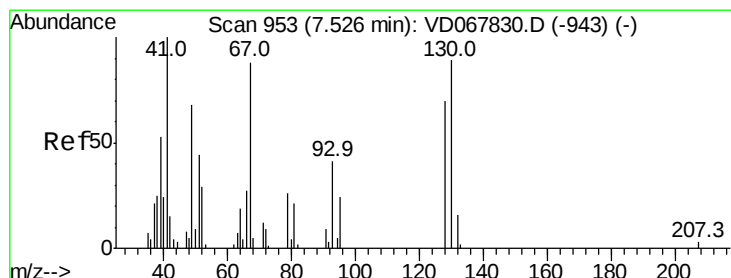
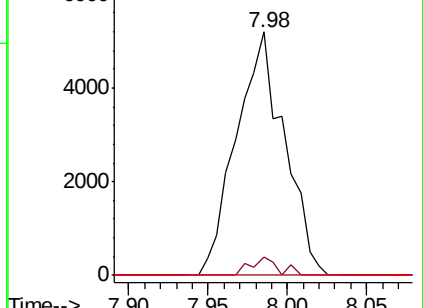
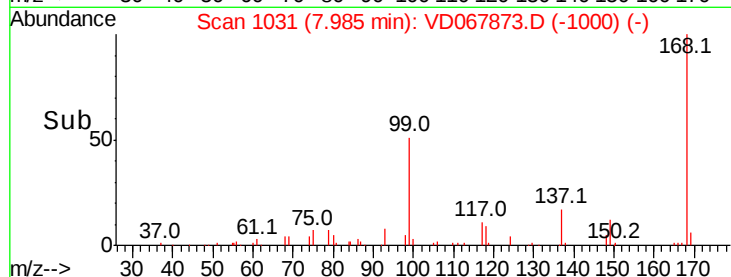
121 0.0 23.8 35.6#



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: Below Cal

RT: 7.56 min Scan# 959

Delta R.T. 0.04 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

Tgt Ion: 41 Resp: 55

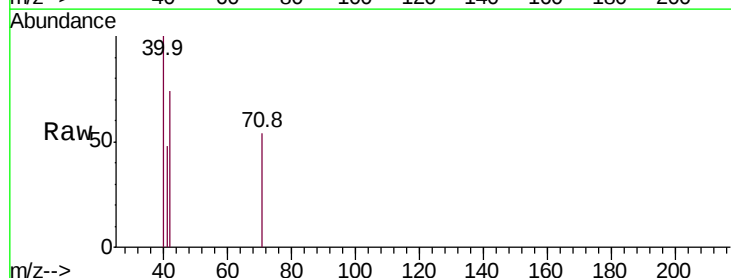
Ion Ratio Lower Upper

41 100

39 101.8 42.1 63.1#

67 0.0 82.4 123.6#

52 0.0 30.6 45.8#

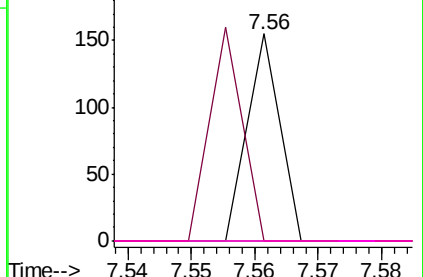
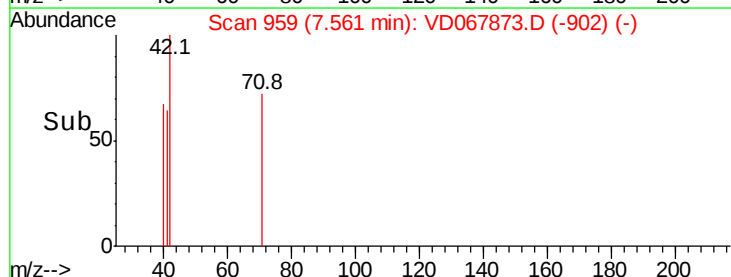


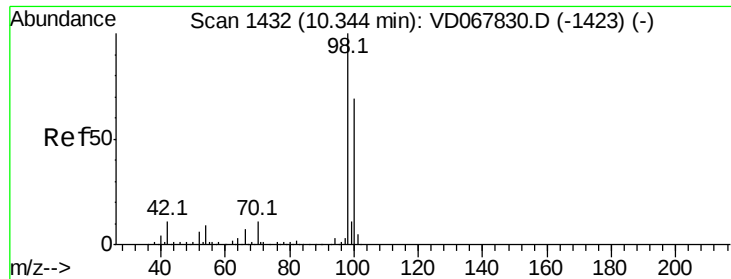
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

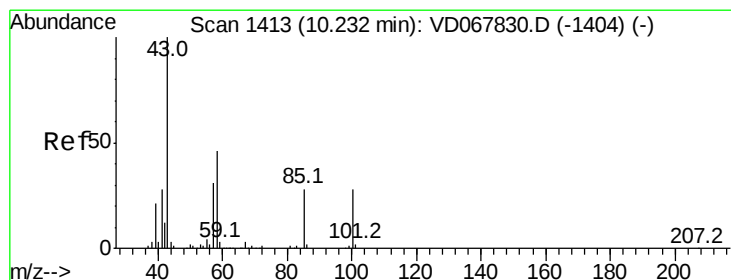
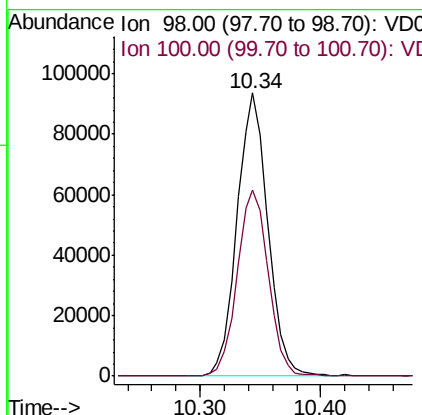
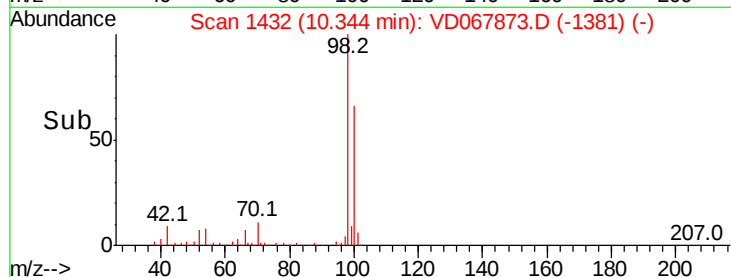
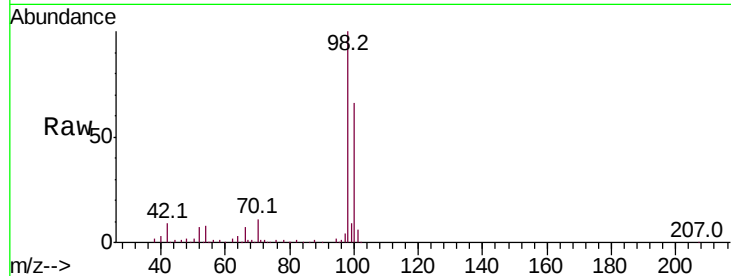




#50
Toluene-d8
Concen: 47.668 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067873.D
Acq: 03 Dec 2020 17:54

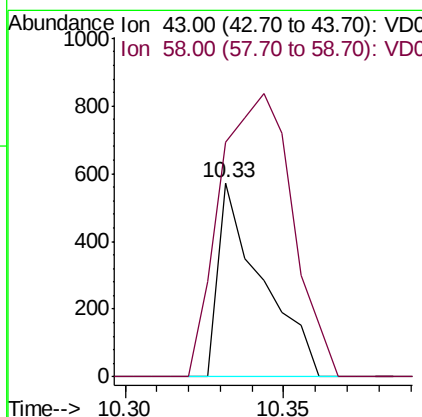
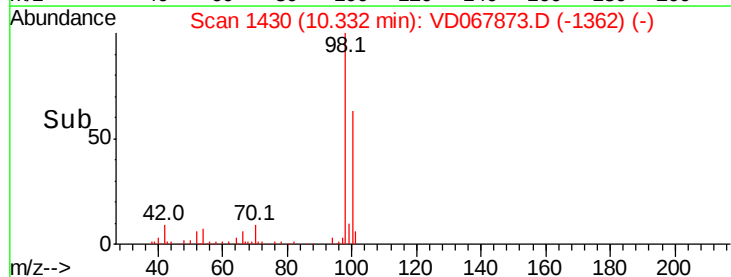
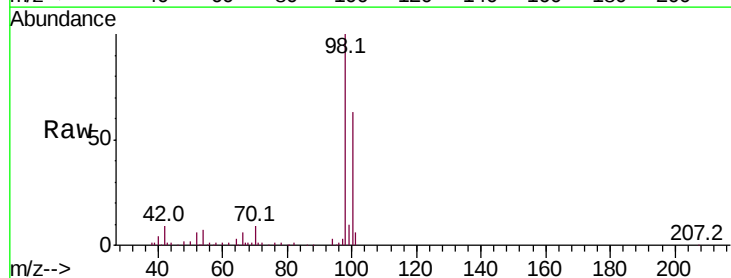
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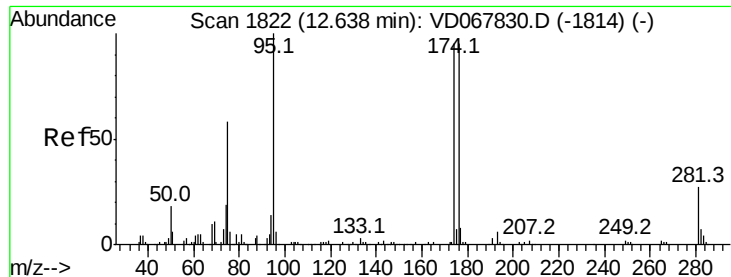
Tot Ion: 98 Resp: 166748
Ion Ratio Lower Upper
98 100
100 66.6 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.734 ug/l
RT: 10.33 min Scan# 1430
Delta R.T. 0.10 min
Lab File: VD067873.D
Acq: 03 Dec 2020 17:54

Tgt Ion: 43 Resp: 547
Ion Ratio Lower Upper
43 100
58 242.2 35.7 53.5#

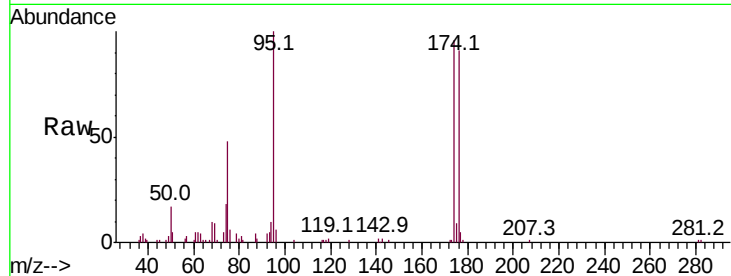




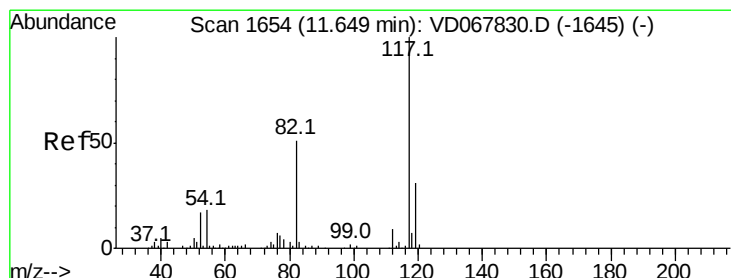
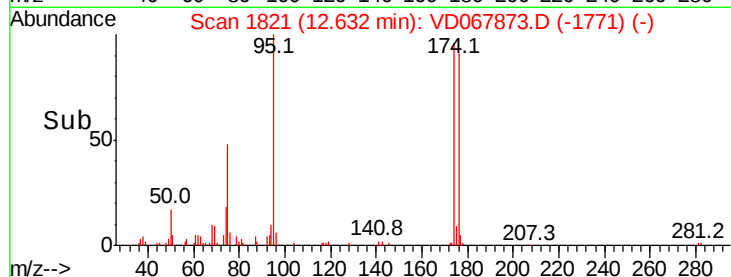
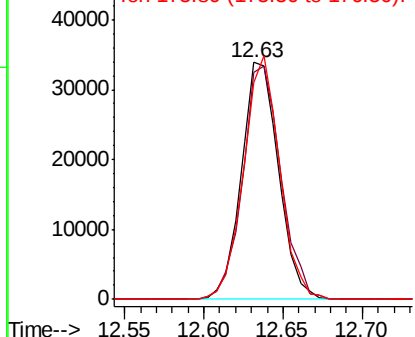
#62
4-Bromofluorobenzene
Concen: 45.662 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD067873.D
Acq: 03 Dec 2020 17:54

Instrument :
MSVOA_D
ClientSampleId :
OK-02-12220RE

Tot Ion: 95 Resp: 55223
Ion Ratio Lower Upper
95 100
174 101.0 0.0 186.0
176 99.4 0.0 184.2

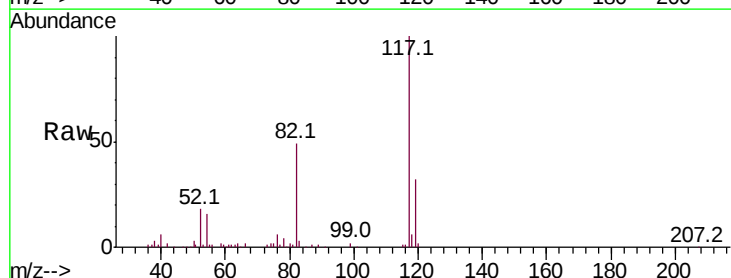


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

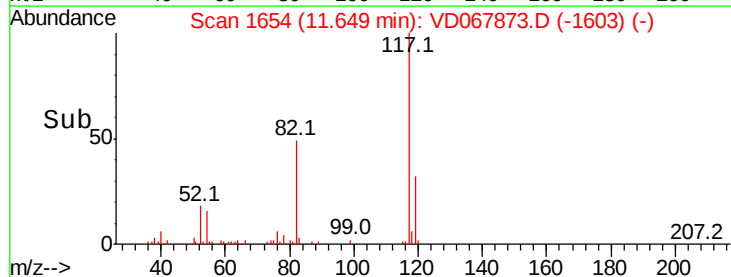
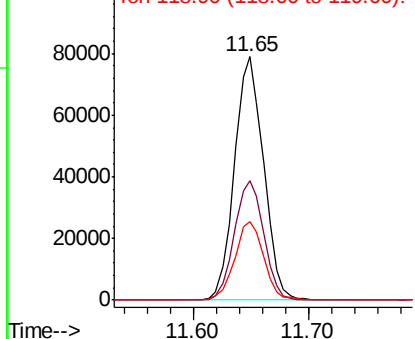


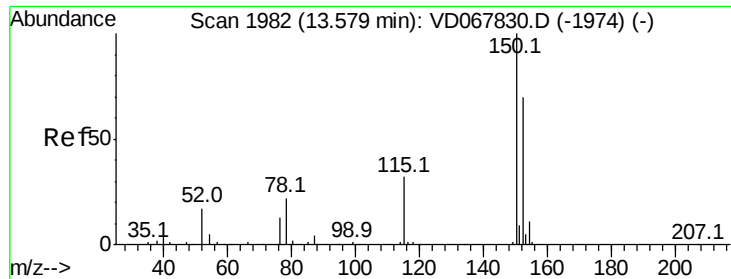
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067873.D
Acq: 03 Dec 2020 17:54

Tgt Ion: 117 Resp: 137792
Ion Ratio Lower Upper
117 100
82 49.2 40.6 60.8
119 32.4 25.1 37.7



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

Instrument :

MSVOA_D

ClientSampleId :

OK-02-12220RE

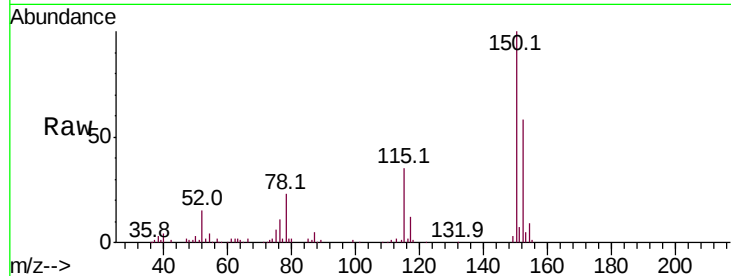
Tot Ion:152 Resp: 67081

Ion Ratio Lower Upper

152 100

115 59.3 29.1 87.4

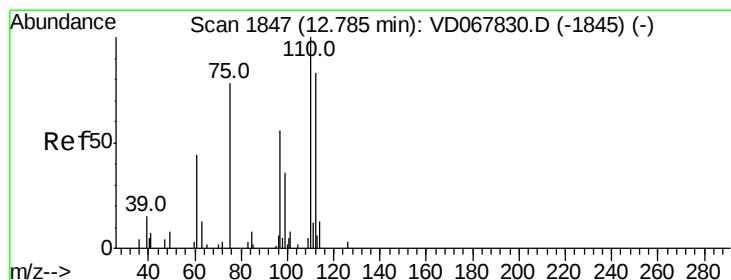
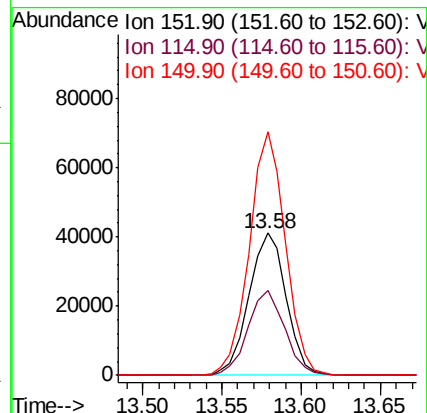
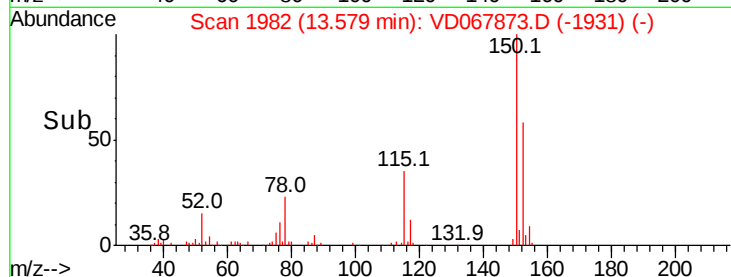
150 165.7 0.0 339.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 59.862 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067873.D

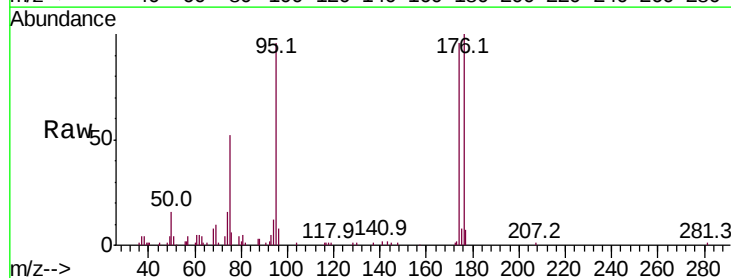
Acq: 03 Dec 2020 17:54

Tgt Ion: 75 Resp: 29243

Ion Ratio Lower Upper

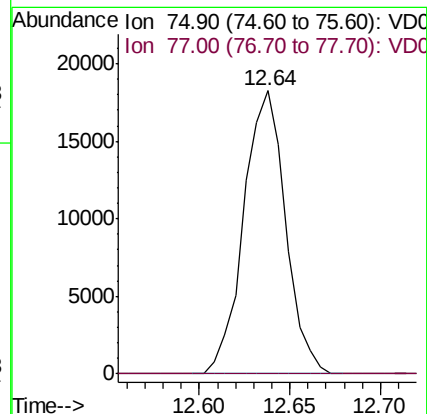
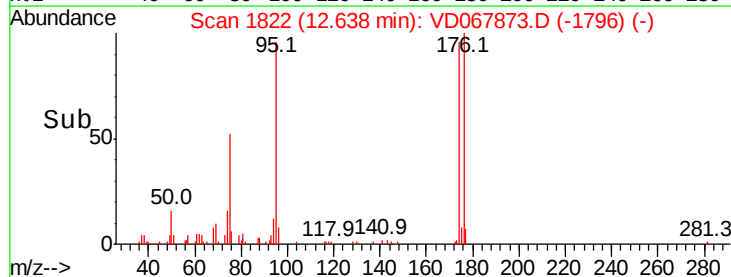
75 100

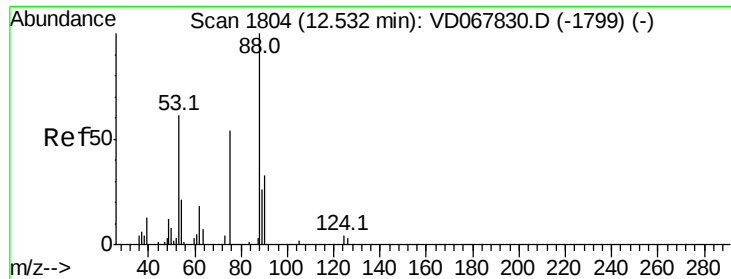
77 0.0 175.9 527.7#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 143.196 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

Instrument :

MSVOA_D

ClientSampleId :

OK-02-12220RE

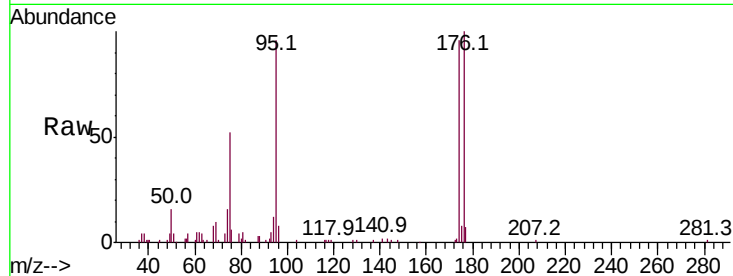
Tot Ion: 75 Resp: 29243

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

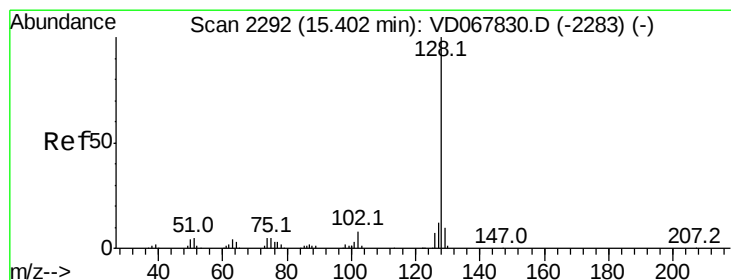
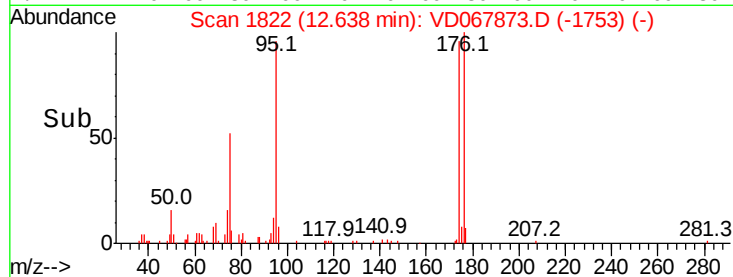
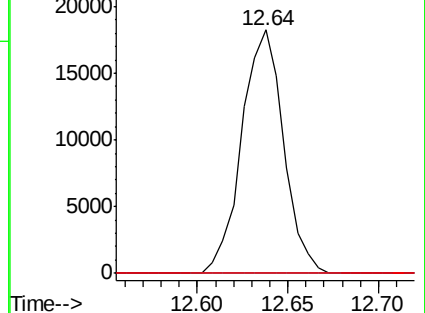
89 0.0 41.0 61.6#



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



#95

Naphthalene

Concen: 7.568 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VD067873.D

Acq: 03 Dec 2020 17:54

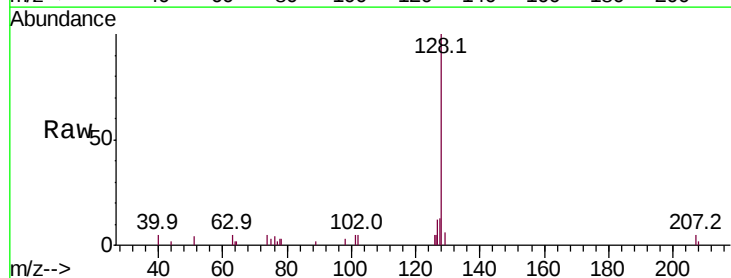
Tgt Ion: 128 Resp: 16529

Ion Ratio Lower Upper

128 100

127 15.1 10.6 15.8

129 11.4 9.0 13.6



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

