

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072320\
 Data File : VD066025.D
 Acq On : 23 Jul 2020 15:35
 Operator : VA/SY
 Sample : L3381-07
 Misc : 6.56G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 364-GRID-A7-A8

Quant Time: Jul 24 03:06:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072120S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 12:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	303530	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	485849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	504867	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	251684	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	125115	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
35) Dibromofluoromethane	7.92	113	146741	49.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.60%	
50) Toluene-d8	10.34	98	586099	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
62) 4-Bromofluorobenzene	12.64	95	235758	61.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.88%	

Target Compounds

					Qvalue	
10) Methyl Iodide	4.31	142	150	8.859	ug/l #	42
11) Tert butyl alcohol	5.23	59	299	Below Cal	#	83
16) Acetone	4.16	43	30871	61.752	ug/l	96
17) Carbon Disulfide	4.41	76	40471	4.972	ug/l	100
20) Methylene Chloride	4.97	84	24832	6.398	ug/l	93
25) 2-Butanone	7.21	43	11423	17.220	ug/l #	89
31) Cyclohexane	7.98	56	6603	1.486	ug/l #	44
36) 1,1-Dichloropropene	7.98	75	19814	4.779	ug/l #	49
37) Ethyl Acetate	7.21	43	11423	7.214	ug/l #	75
38) Carbon Tetrachloride	7.98	117	26209	5.825	ug/l #	18
43) Isopropyl Acetate	8.51	43	4407	1.425	ug/l #	49
51) 4-Methyl-2-Pentanone	10.27	43	2854	1.831	ug/l #	63
59) 2-Hexanone	10.96	43	13450	12.455	ug/l #	27
74) N-amyl acetate	12.27	43	80291	25.427	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.70	83	7590	3.016	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	115346	60.867	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	115346	139.669	ug/l #	11
95) Naphthalene	15.41	128	2072	3.788	ug/l #	57

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

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ClientSampleId :

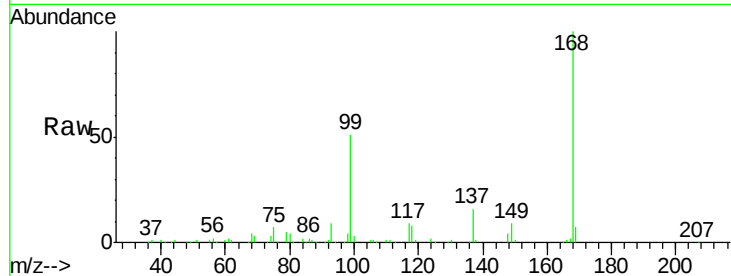
364-GRID-A7-A8

Tot Ion:168 Resp: 303530

Ion Ratio Lower Upper

168 100

99 51.1 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

150000

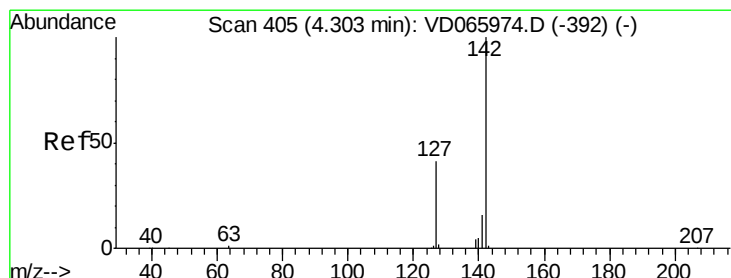
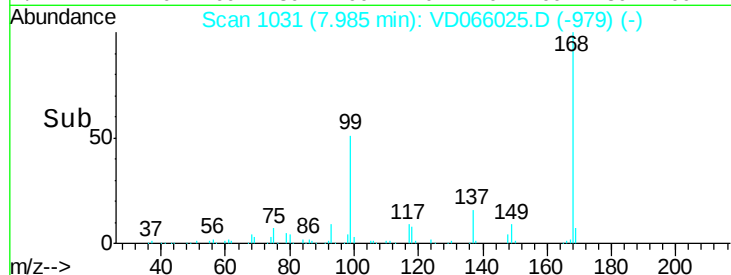
100000

50000

0

7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 8.859 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.01 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

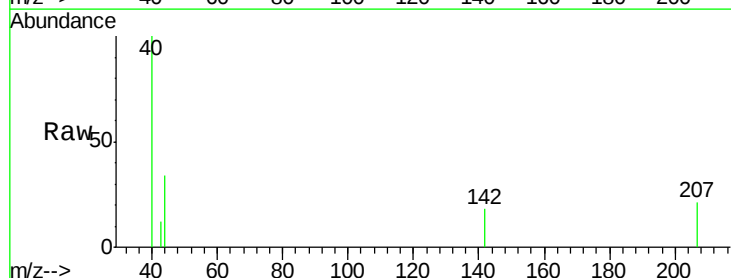
Tgt Ion:142 Resp: 150

Ion Ratio Lower Upper

142 100

127 0.0 32.9 49.3#

141 0.0 11.8 17.6#



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

4.31

300

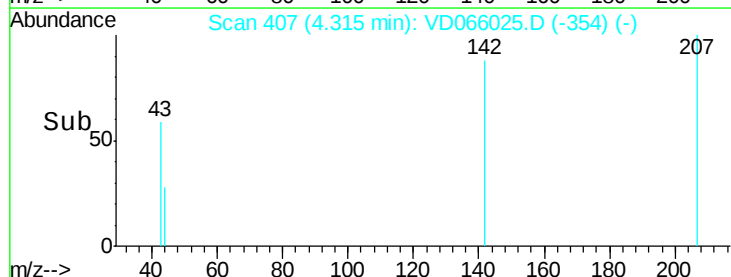
200

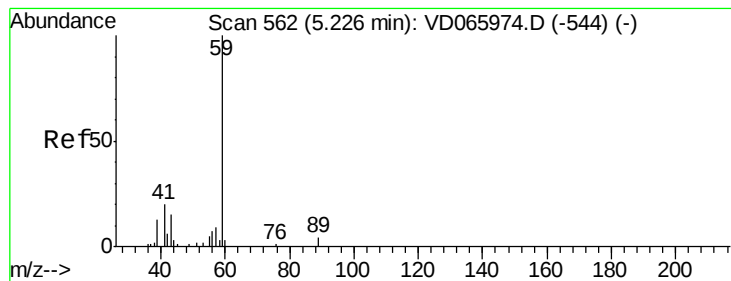
100

0

4.30 4.32

Time-->



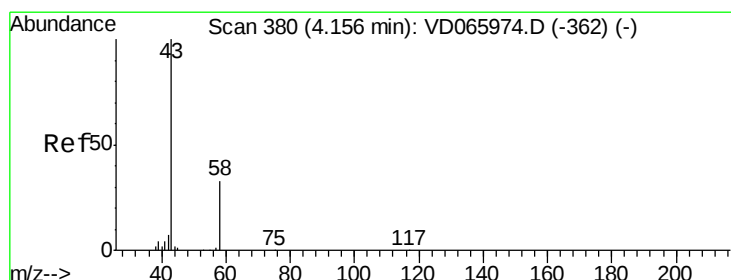
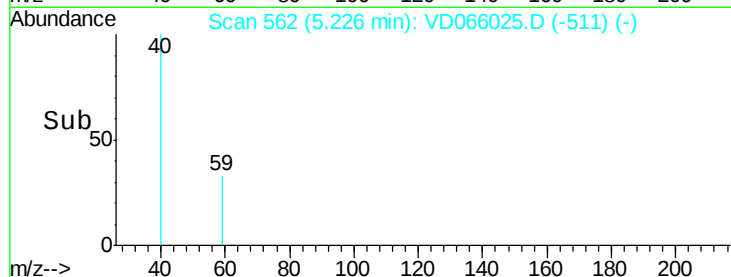
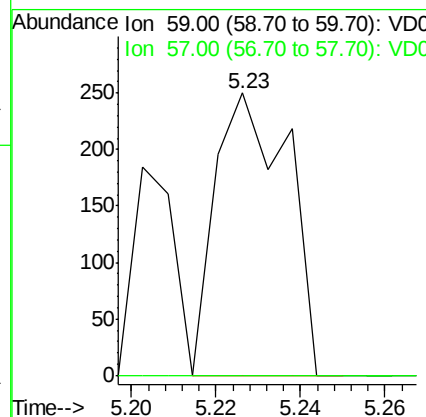
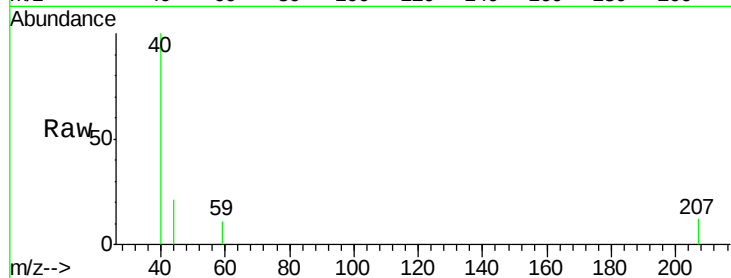


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 562
 Delta R.T. 0.00 min
 Lab File: VD066025.D
 Acq: 23 Jul 2020 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 364-GRID-A7-A8

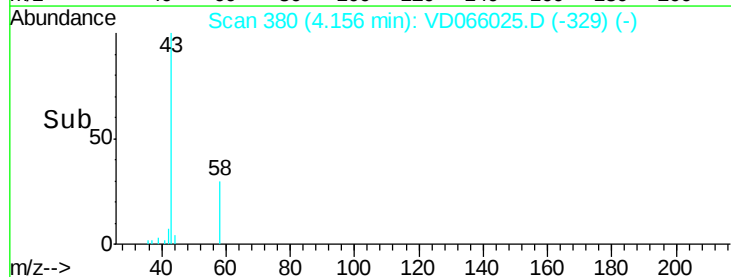
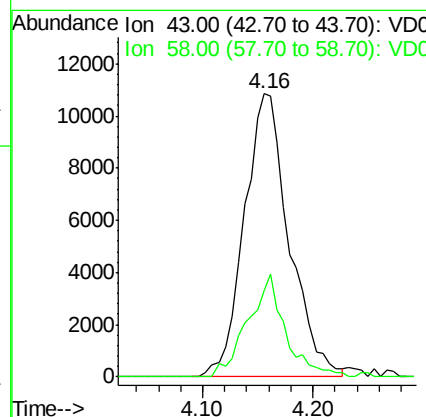
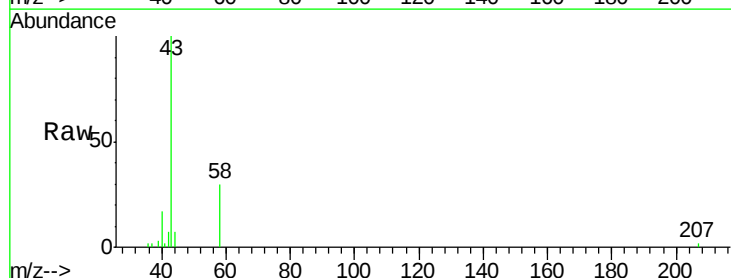
Tot Ion: 59 Resp: 299
 Ion Ratio Lower Upper
 59 100
 57 0.0 4.5 6.7#

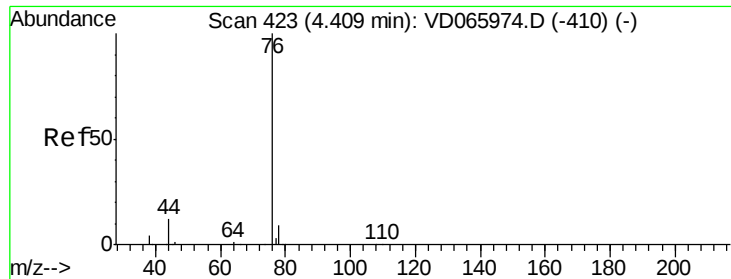


#16

Acetone
 Concen: 61.752 ug/l
 RT: 4.16 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VD066025.D
 Acq: 23 Jul 2020 15:35

Tgt Ion: 43 Resp: 30871
 Ion Ratio Lower Upper
 43 100
 58 30.4 26.3 39.5

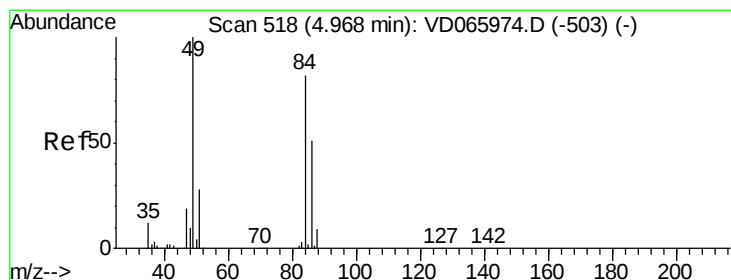
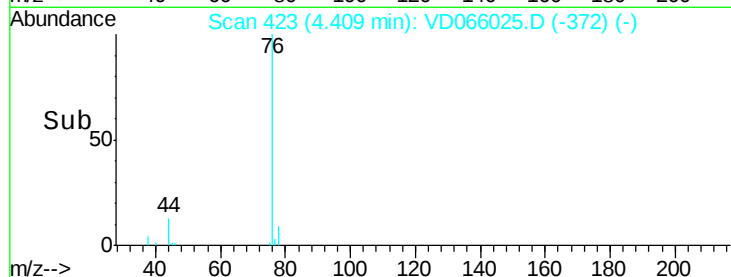
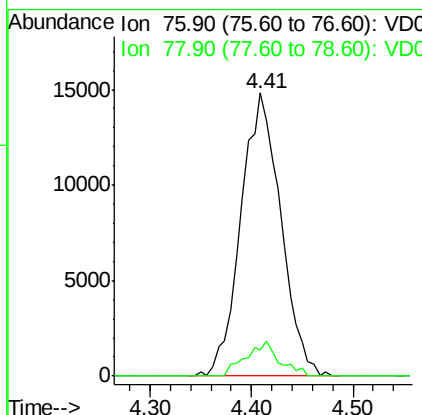
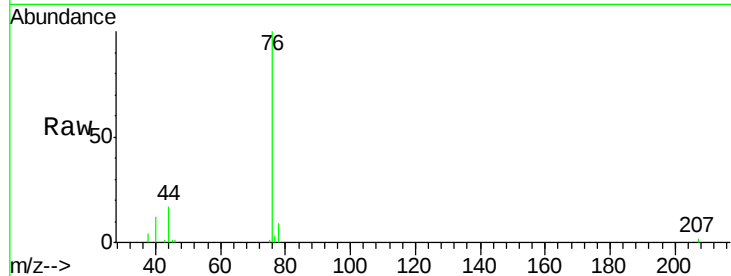




#17
Carbon Disulfide
Concen: 4.972 ug/l
RT: 4.41 min Scan# 423
Delta R.T. 0.00 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

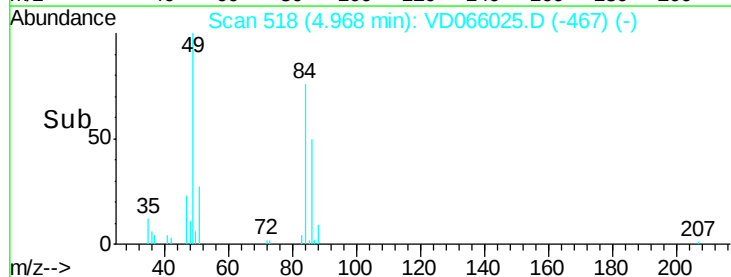
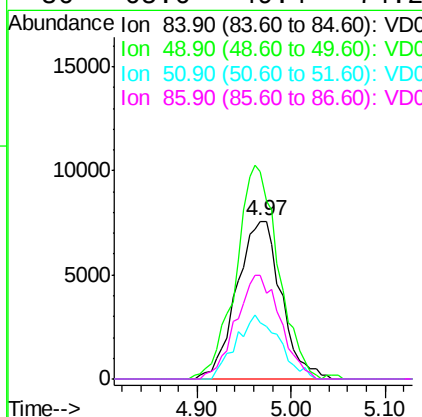
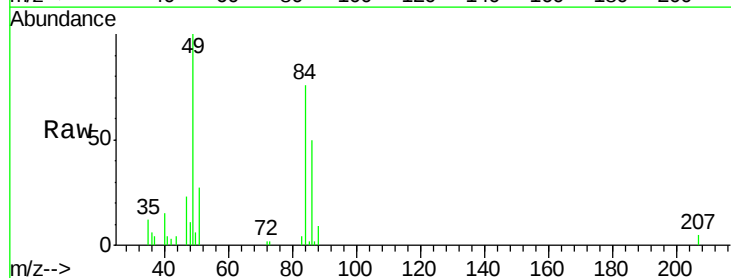
Instrument :
MSVOA_D
ClientSampleId :
364-GRID-A7-A8

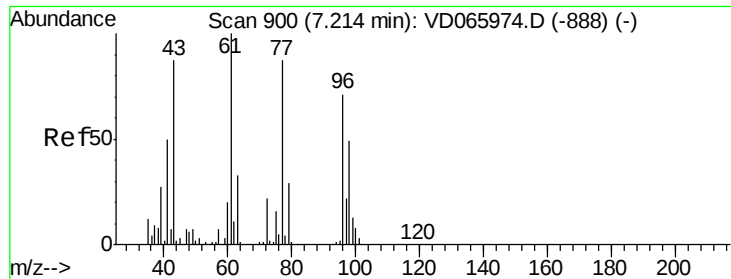
Tot Ion: 76 Resp: 40471
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.2



#20
Methylene Chloride
Concen: 6.398 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

Tgt Ion: 84 Resp: 24832
Ion Ratio Lower Upper
84 100
49 131.7 97.7 146.5
51 35.9 27.4 41.2
86 65.6 49.4 74.2





#25

2-Butanone

Concen: 17.220 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

Instrument :

MSVOA_D

ClientSampleId :

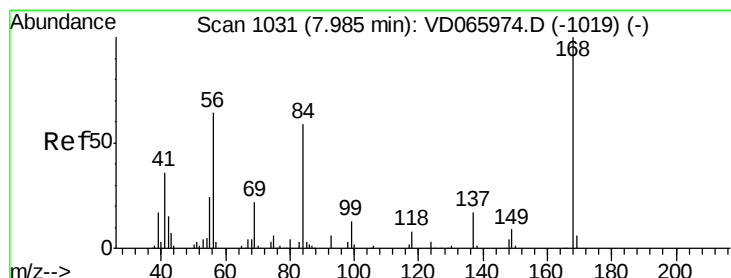
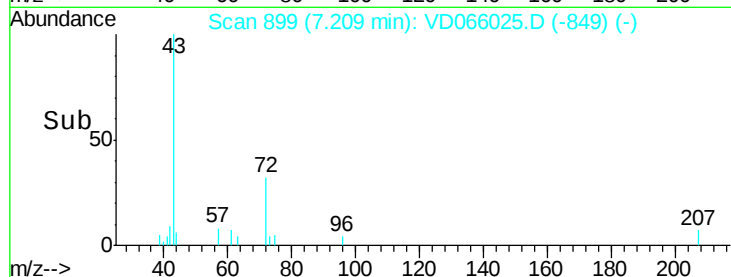
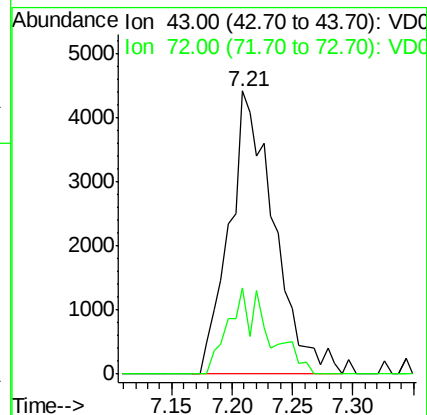
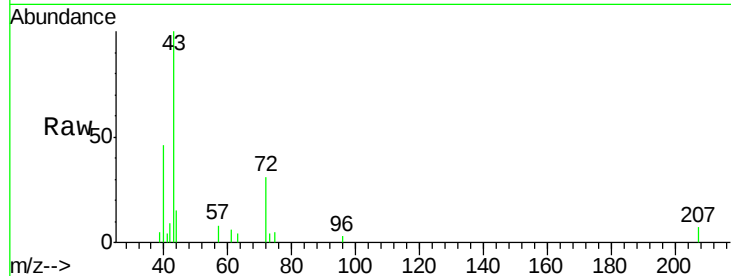
364-GRID-A7-A8

Tot Ion: 43 Resp: 11423

Ion Ratio Lower Upper

43 100

72 30.6 20.2 30.2#



#31

Cyclohexane

Concen: 1.486 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

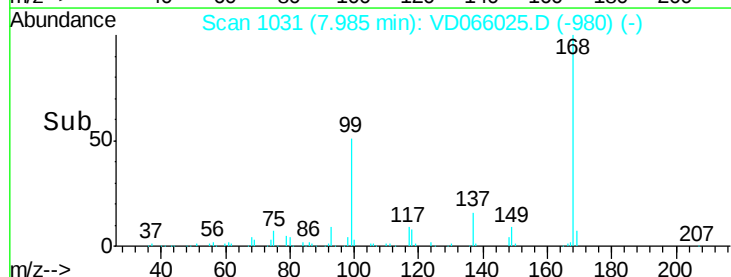
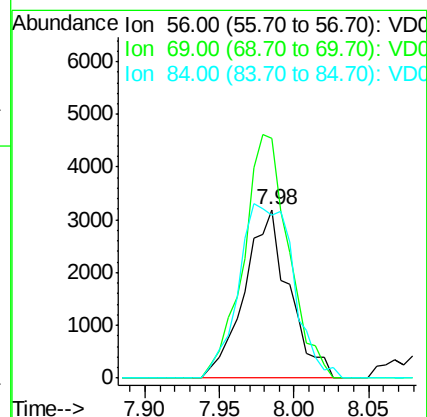
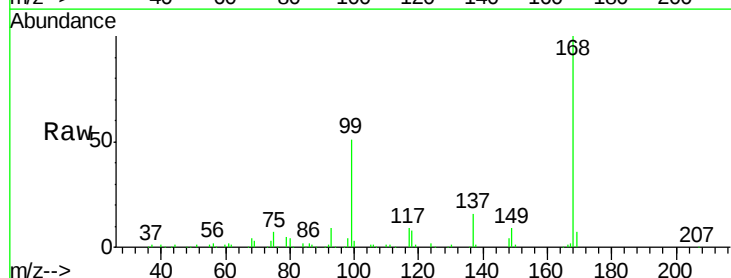
Tgt Ion: 56 Resp: 6603

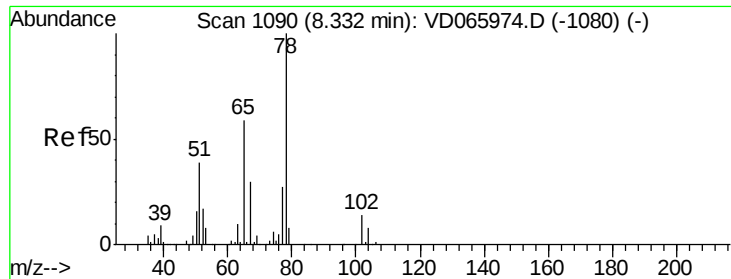
Ion Ratio Lower Upper

56 100

69 142.6 28.0 42.0#

84 97.2 72.6 109.0

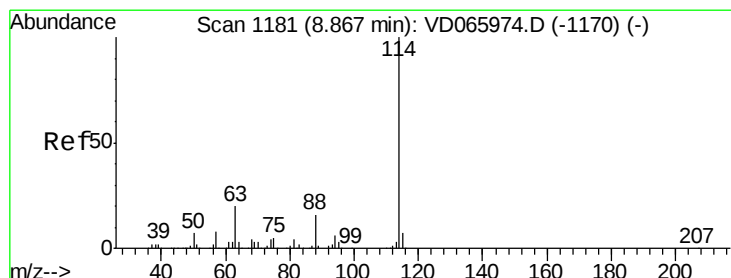
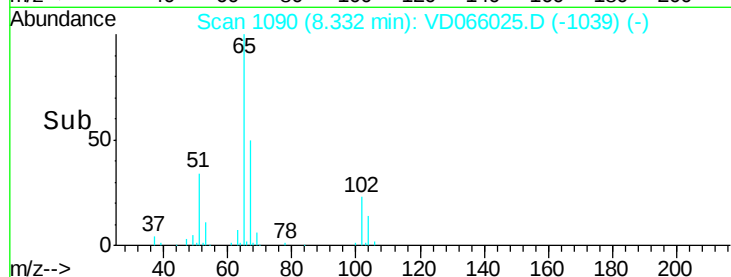
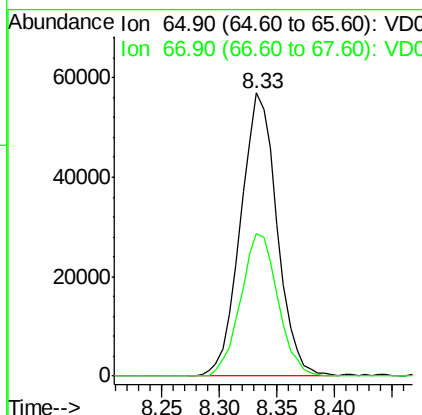
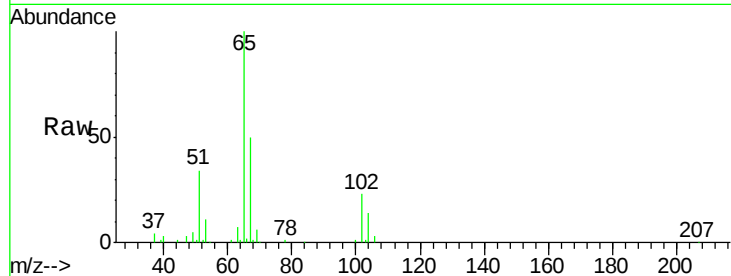




#33
 1,2-Dichloroethane-d4
 Concen: 50.658 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD066025.D
 Acq: 23 Jul 2020 15:35

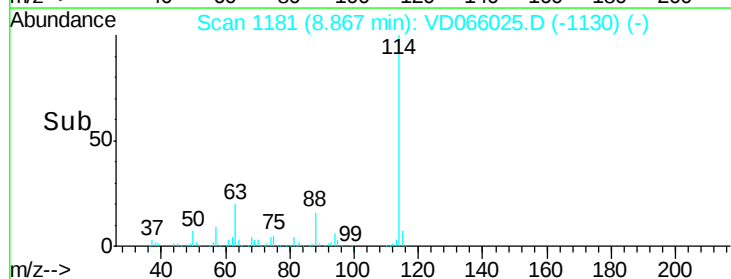
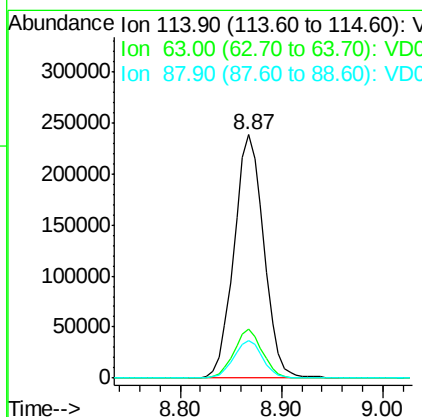
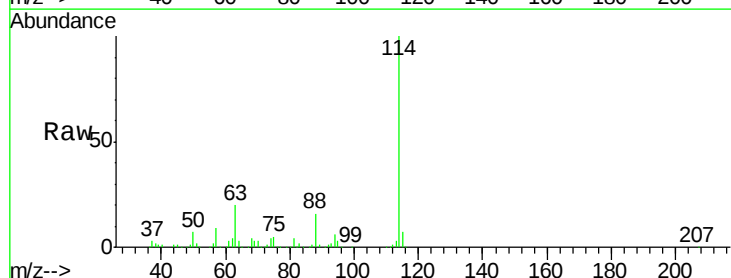
Instrument :
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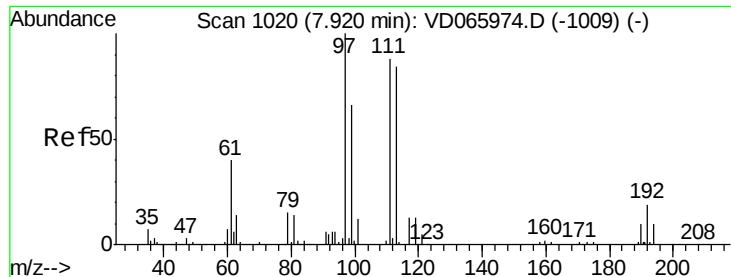
Tot Ion: 65 Resp: 125115
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD066025.D
 Acq: 23 Jul 2020 15:35

Tgt Ion: 114 Resp: 485849
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.6
 88 15.5 0.0 31.2

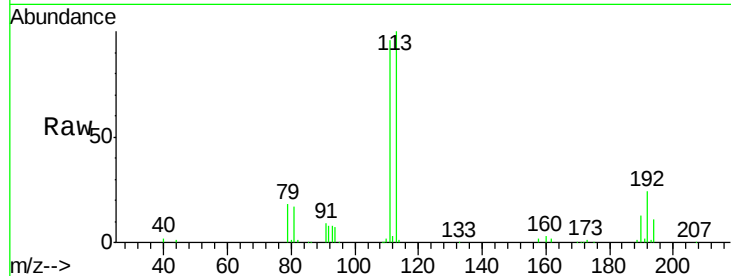




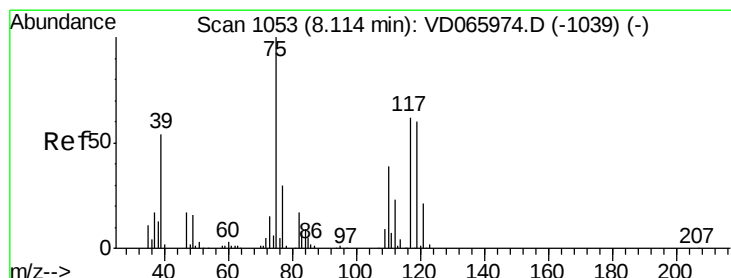
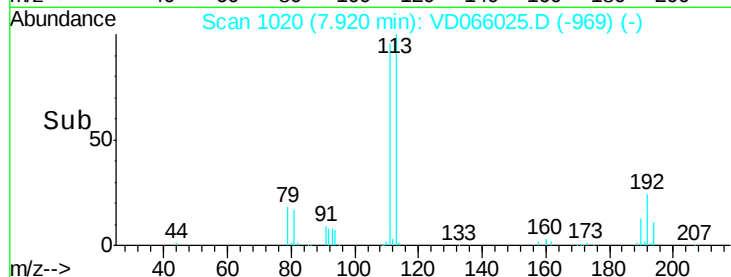
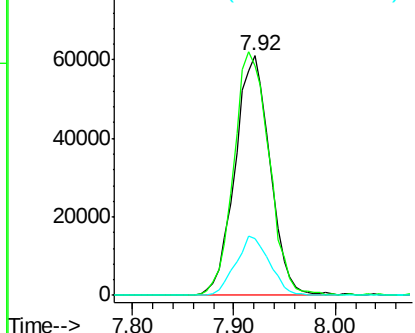
#35
 Dibromofluoromethane
 Concen: 49.796 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD066025.D
 Acq: 23 Jul 2020 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 364-GRID-A7-A8

Tot Ion:113 Resp: 146741
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.2 124.8
 192 24.0 18.7 28.1

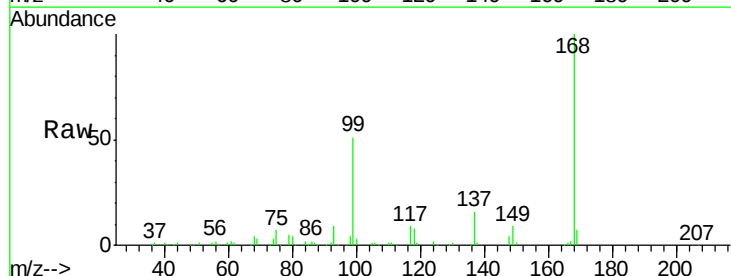


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

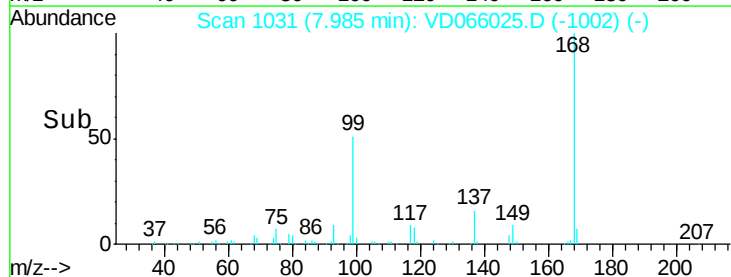
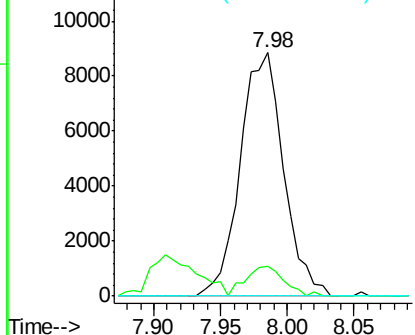


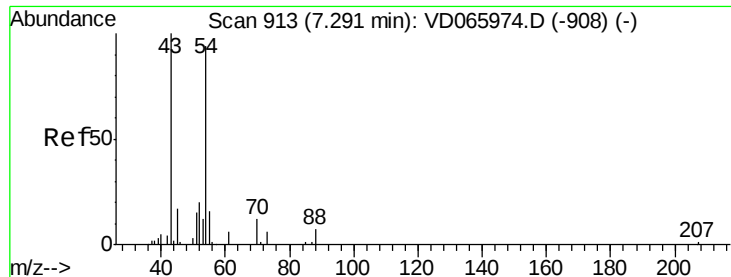
#36
 1,1-Dichloropropene
 Concen: 4.779 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD066025.D
 Acq: 23 Jul 2020 15:35

Tgt Ion: 75 Resp: 19814
 Ion Ratio Lower Upper
 75 100
 110 10.9 19.5 58.5#
 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

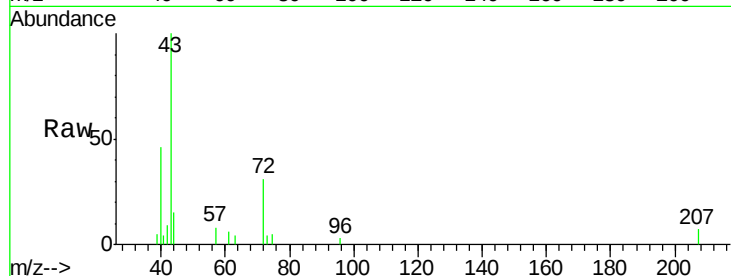




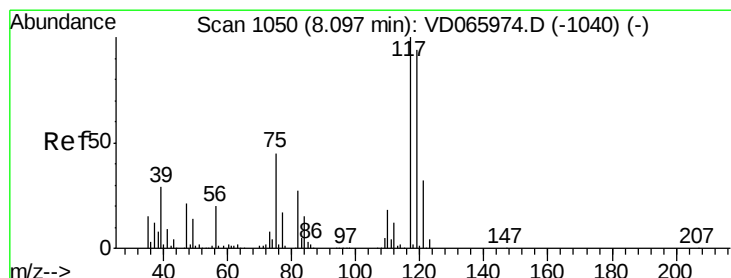
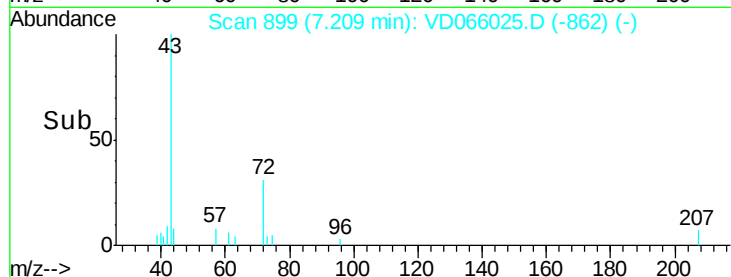
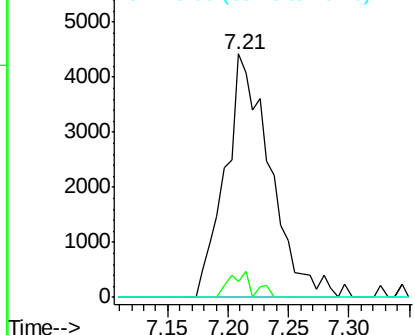
#37
Ethyl Acetate
Concen: 7.214 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.08 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

Instrument :
MSVOA_D
ClientSampleId :
364-GRID-A7-A8

Tot Ion: 43 Resp: 11423
Ion Ratio Lower Upper
43 100
61 5.5 11.4 17.0#
70 0.0 9.3 13.9#

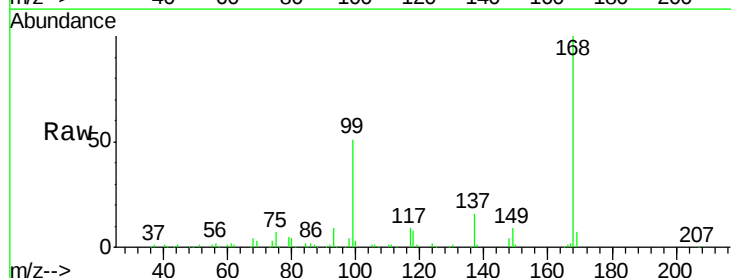


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

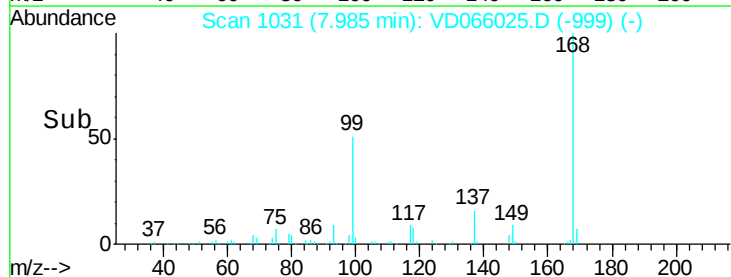
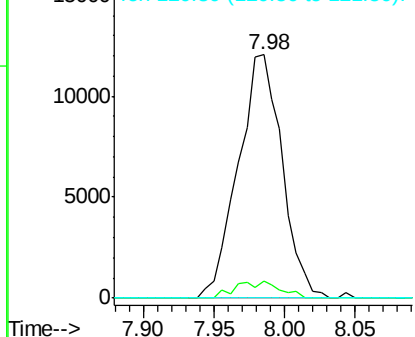


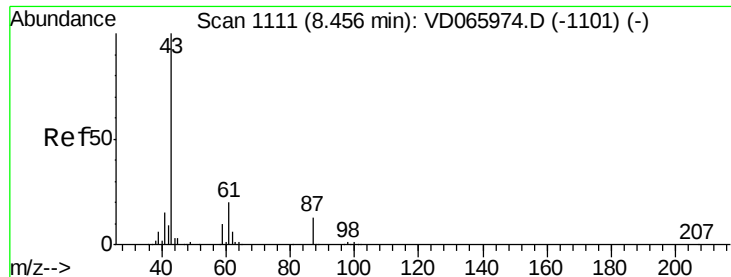
#38
Carbon Tetrachloride
Concen: 5.825 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

Tgt Ion: 117 Resp: 26209
Ion Ratio Lower Upper
117 100
119 6.8 75.0 112.6#
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





#43

Isopropyl Acetate

Concen: 1.425 ug/l

RT: 8.51 min Scan# 1120

Delta R.T. 0.05 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

Instrument :

MSVOA_D

ClientSampleId :

364-GRID-A7-A8

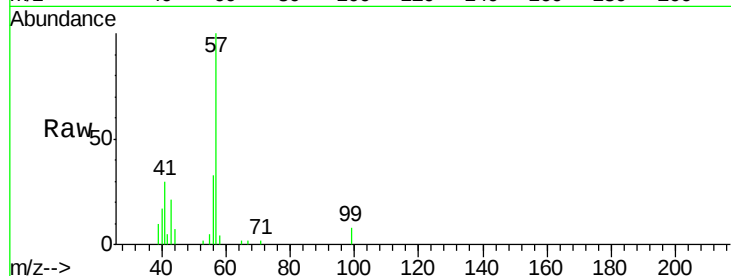
Tot Ion: 43 Resp: 4407

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.8#

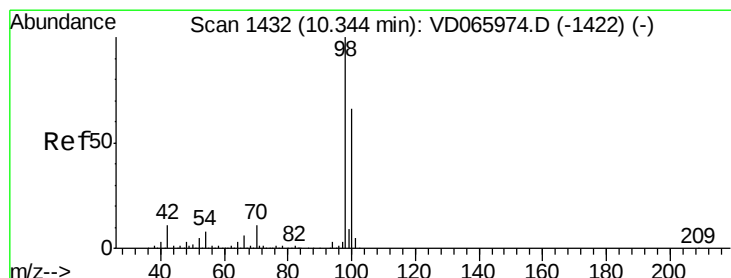
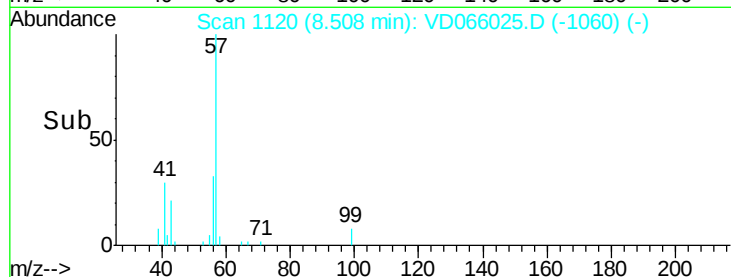
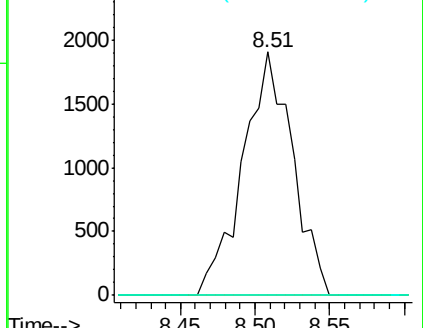
87 0.0 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: 53.390 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD066025.D

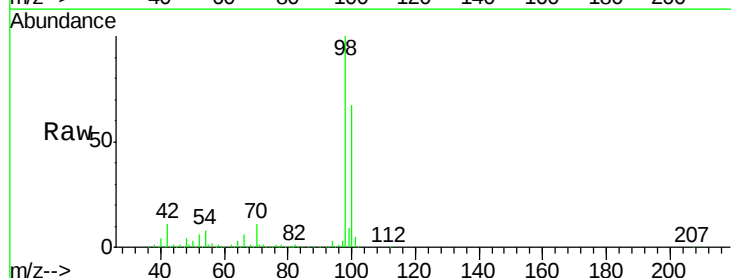
Acq: 23 Jul 2020 15:35

Tgt Ion: 98 Resp: 586099

Ion Ratio Lower Upper

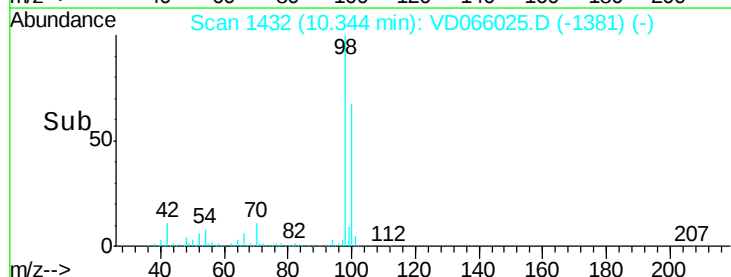
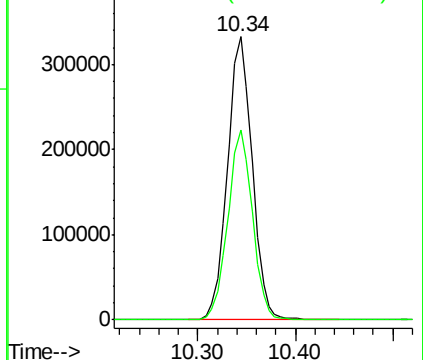
98 100

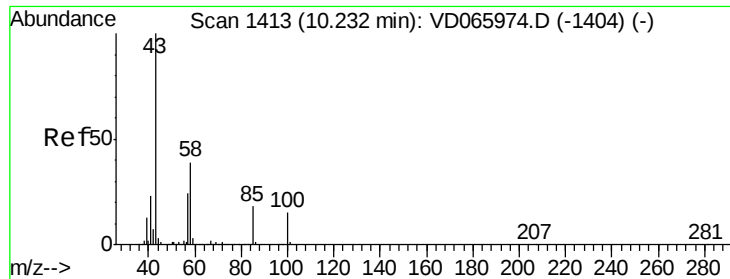
100 67.0 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.831 ug/l

RT: 10.27 min Scan# 1420

Delta R.T. 0.04 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

Instrument :

MSVOA_D

ClientSampleId :

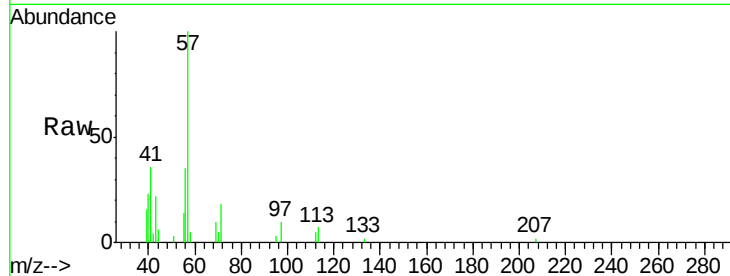
364-GRID-A7-A8

Tot Ion: 43 Resp: 2854

Ion Ratio Lower Upper

43 100

58 16.3 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

3000

2500

2000

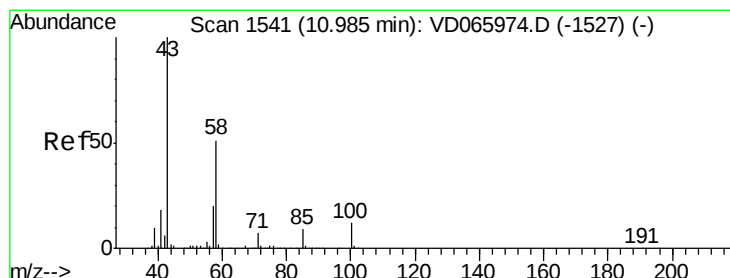
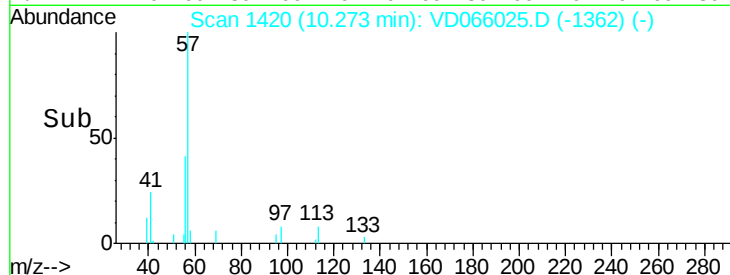
1500

1000

500

0

Time-->



#59

2-Hexanone

Concen: 12.455 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.03 min

Lab File: VD066025.D

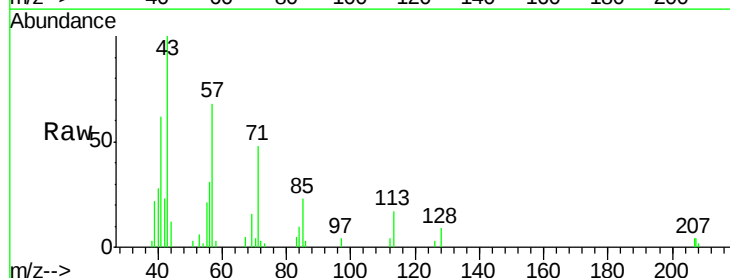
Acq: 23 Jul 2020 15:35

Tgt Ion: 43 Resp: 13450

Ion Ratio Lower Upper

43 100

58 1.2 26.2 78.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

8000

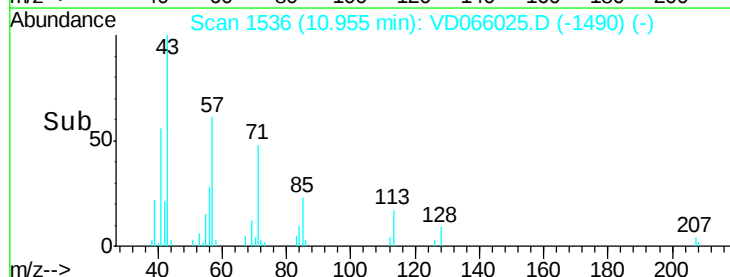
6000

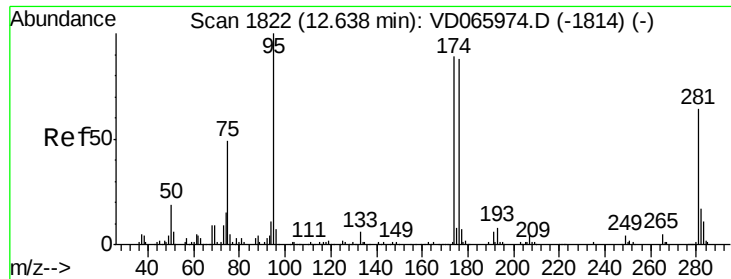
4000

2000

0

Time-->

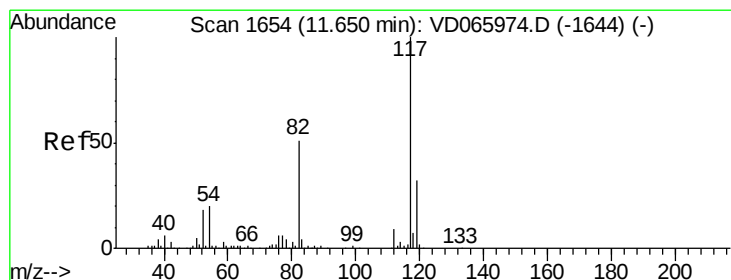
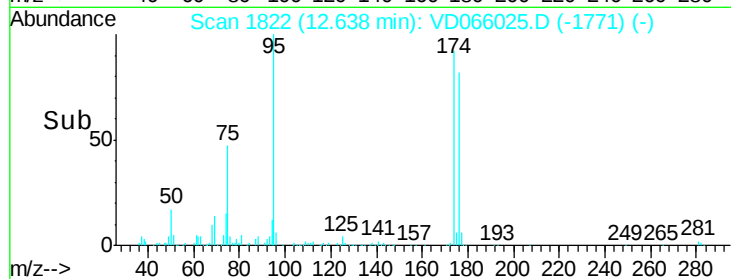
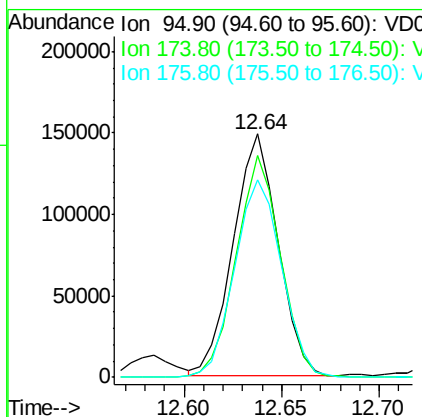
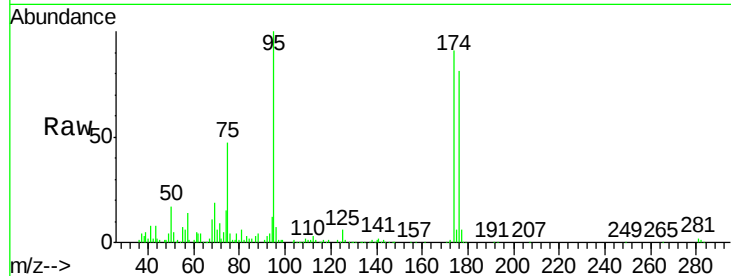




#62
4-Bromofluorobenzene
Concen: 61.937 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

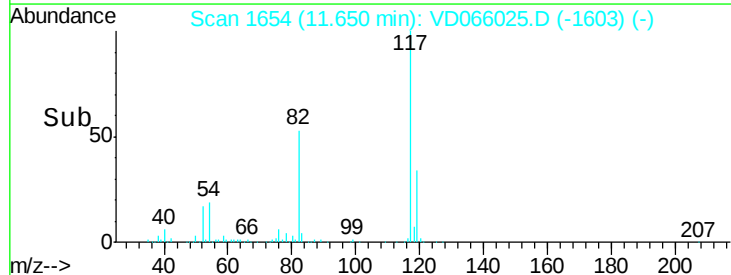
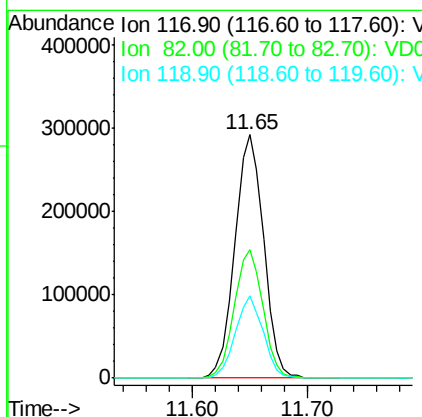
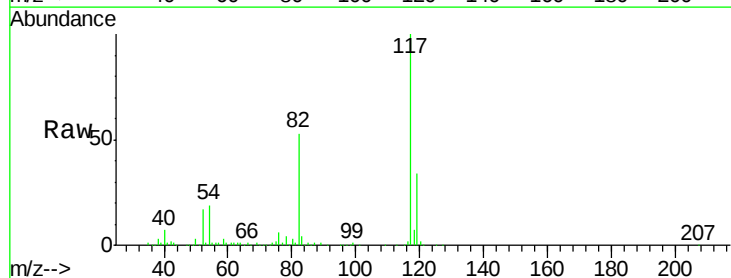
Instrument :
MSVOA_D
ClientSampleId :
364-GRID-A7-A8

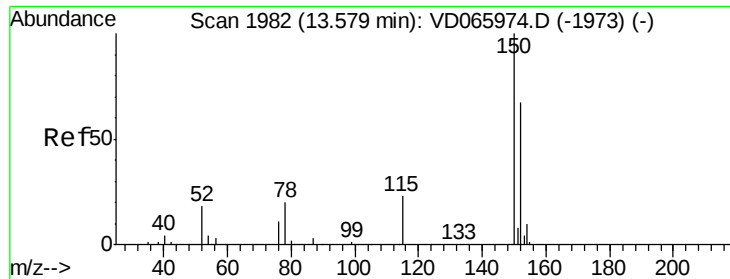
Tot Ion: 95 Resp: 235758
Ion Ratio Lower Upper
95 100
174 90.7 0.0 178.8
176 85.7 0.0 172.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

Tgt Ion: 117 Resp: 504867
Ion Ratio Lower Upper
117 100
82 52.9 41.1 61.7
119 34.0 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

Instrument :

MSVOA_D

ClientSampleId :

364-GRID-A7-A8

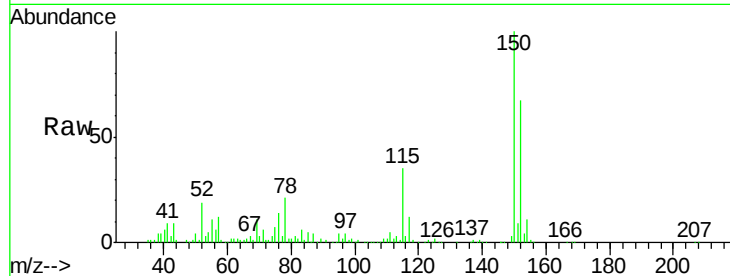
Tot Ion:152 Resp: 251684

Ion Ratio Lower Upper

152 100

115 52.9 27.9 83.7

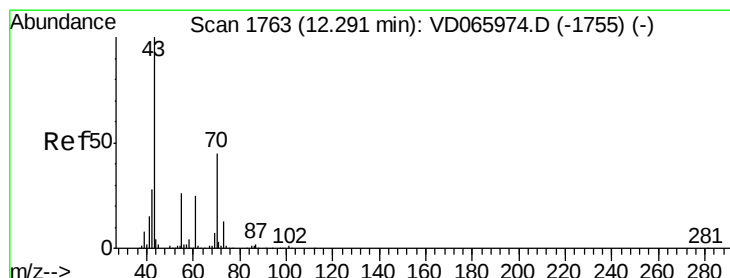
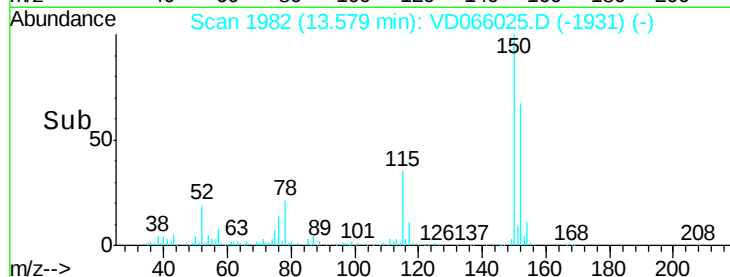
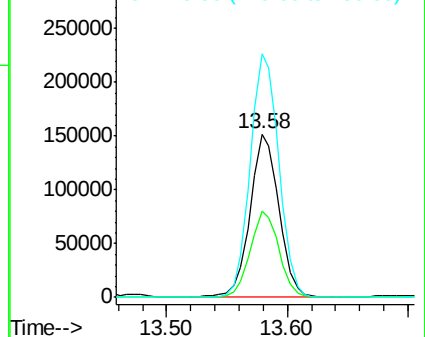
150 148.6 0.0 348.2



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



#74

N-ethyl acetate

Concen: 25.427 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

Tgt Ion: 43 Resp: 80291

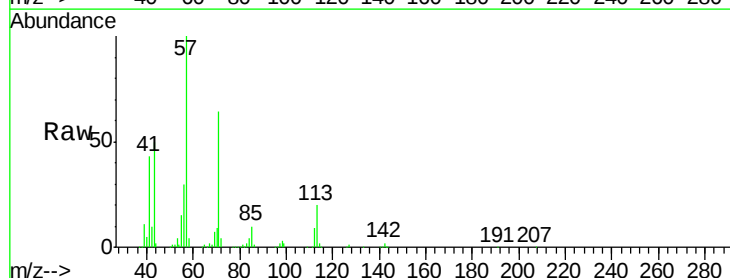
Ion Ratio Lower Upper

43 100

70 21.7 34.6 51.8#

55 35.4 20.3 30.5#

61 0.1 19.5 29.3#

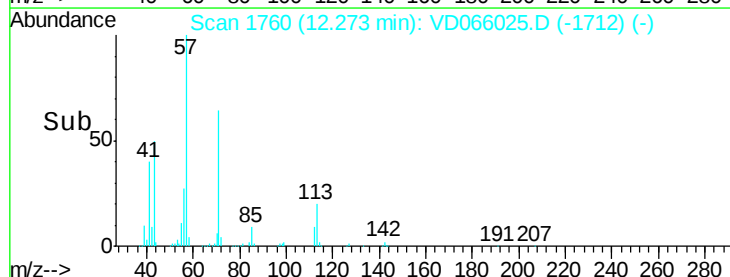
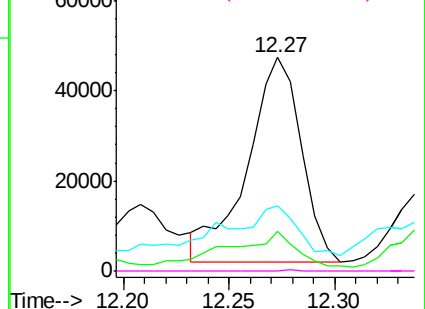


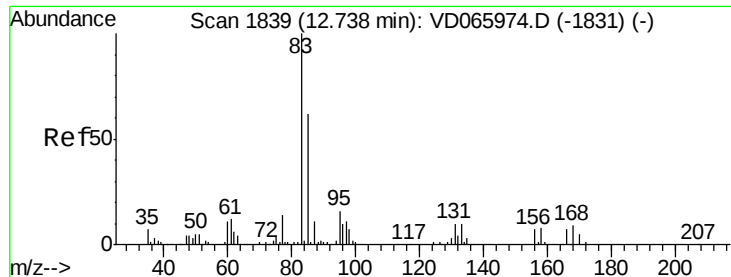
Abundance Ion 43.00 (42.70 to 43.70): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 3.016 ug/l

RT: 12.70 min Scan# 1832

Delta R.T. -0.04 min

Lab File: VD066025.D

Acq: 23 Jul 2020 15:35

Instrument :

MSVOA_D

ClientSampleId :

364-GRID-A7-A8

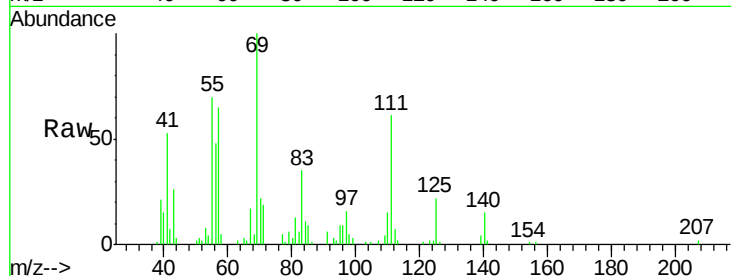
Tot Ion: 83 Resp: 7590

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

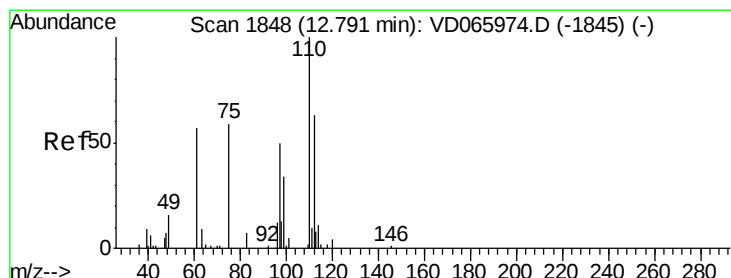
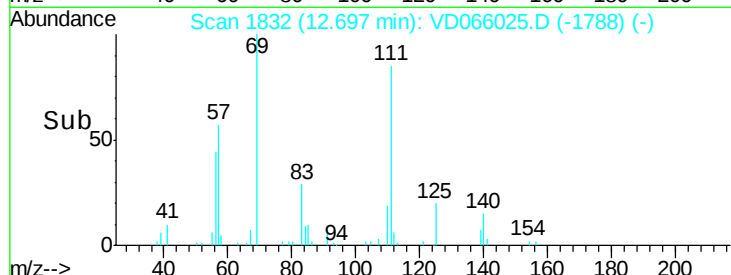
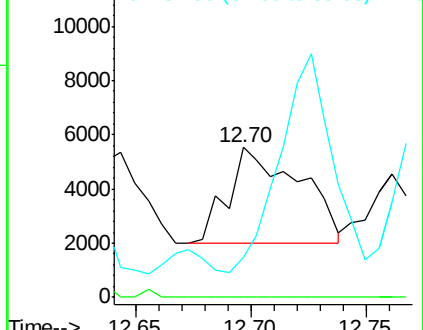
85 0.0 31.9 95.5#



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: 60.867 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD066025.D

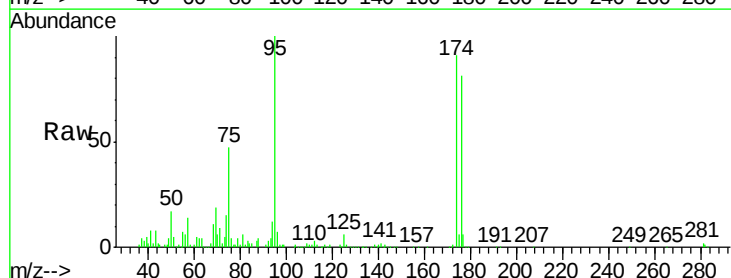
Acq: 23 Jul 2020 15:35

Tgt Ion: 75 Resp: 115346

Ion Ratio Lower Upper

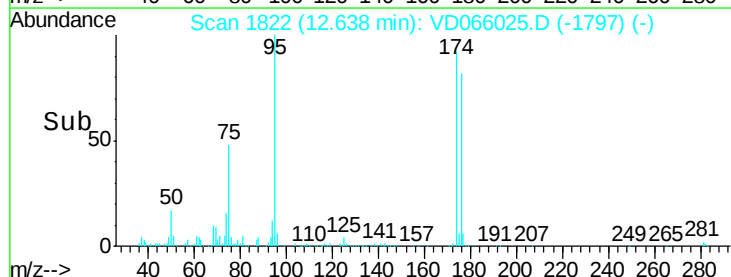
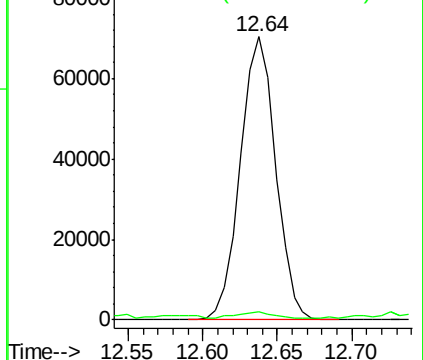
75 100

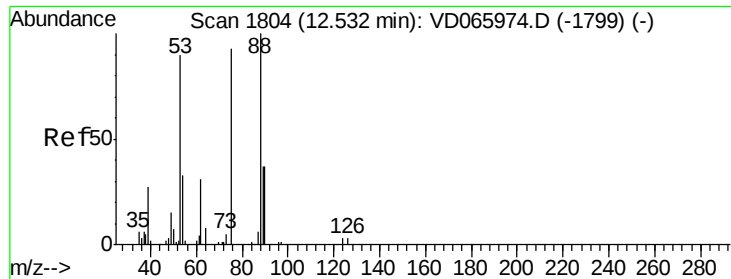
77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

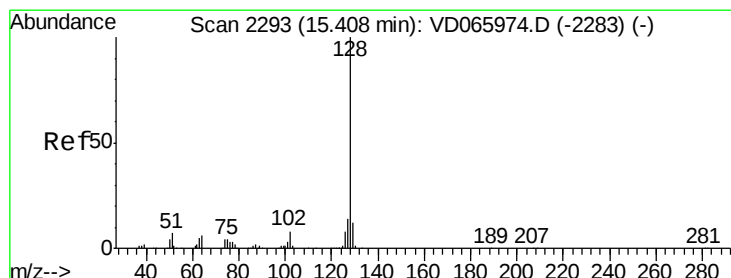
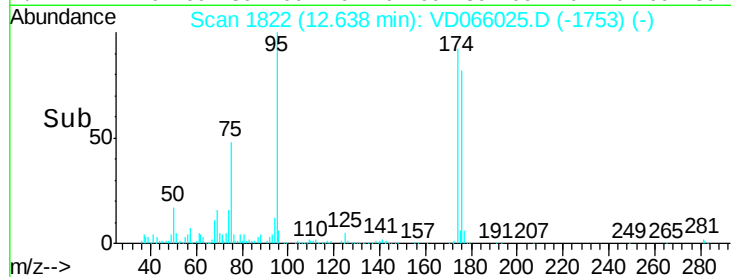
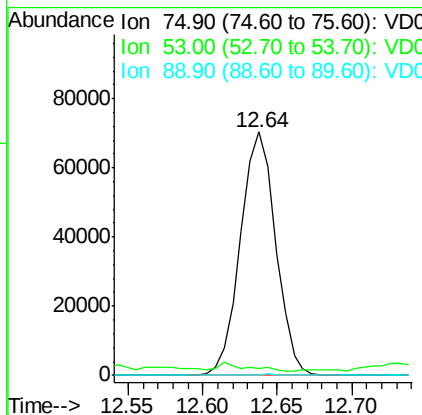
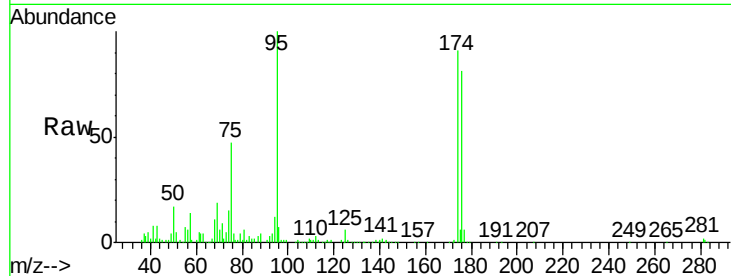




#81
trans-1,4-Dichloro-2-butene
Concen: 139.669 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

Instrument :
MSVOA_D
ClientSampleId :
364-GRID-A7-A8

Tot Ion: 75 Resp: 115346
Ion Ratio Lower Upper
75 100
53 0.0 76.8 115.2#
89 0.1 37.0 55.4#



#95
Naphthalene
Concen: 3.788 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD066025.D
Acq: 23 Jul 2020 15:35

Tgt Ion:128 Resp: 2072
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 32.0 8.9 13.3#

