

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092420\
 Data File : VD066858.D
 Acq On : 24 Sep 2020 18:28
 Operator : VA/SY
 Sample : L4127-03
 Misc : 5.07G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-2(4-5)

Quant Time: Sep 25 01:10:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	390418	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	710526	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	726540	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	328399	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	209915	54.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.86%	
35) Dibromofluoromethane	7.91	113	226967	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
50) Toluene-d8	10.34	98	865475	56.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.38%	
62) 4-Bromofluorobenzene	12.63	95	325040	61.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.30%	

Target Compounds

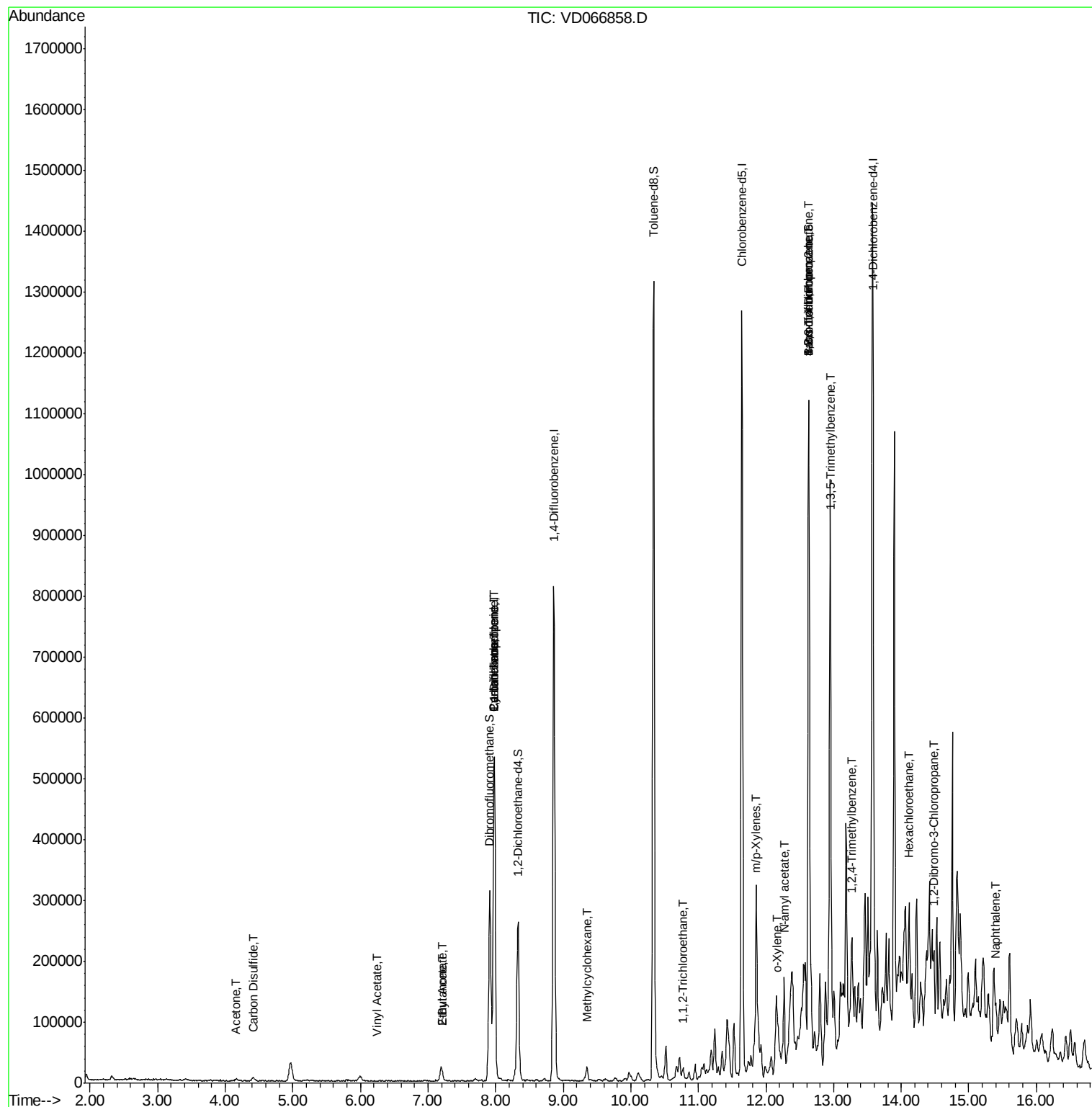
					Qvalue	
11) Tert butyl alcohol	5.20	59	579	Below Cal	#	72
16) Acetone	4.16	43	5408	6.671	ug/l	98
17) Carbon Disulfide	4.41	76	11724	1.003	ug/l #	91
18) Methyl Acetate	4.69	43	62	Below Cal	#	50
20) Methylene Chloride	4.97	84	23407	Below Cal	#	90
23) Vinyl Acetate	6.24	43	65	2.682	ug/l #	71
25) 2-Butanone	7.21	43	2889	2.966	ug/l #	46
31) Cyclohexane	7.98	56	10089	1.452	ug/l #	7
36) 1,1-Dichloropropene	7.98	75	32316	4.584	ug/l #	51
37) Ethyl Acetate	7.21	43	2889	1.134	ug/l #	37
38) Carbon Tetrachloride	7.97	117	41027	5.324	ug/l #	17
39) Methylcyclohexane	9.34	83	9030	1.116	ug/l #	82
55) 1,1,2-Trichloroethane	10.77	97	6972	1.888	ug/l #	22
68) m/p-Xylenes	11.84	106	13147	1.307	ug/l	98
69) o-Xylene	12.17	106	10123	1.113	ug/l	87
71) Bromoform	12.63	173	3058	1.055	ug/l #	28
74) N-amyl acetate	12.27	43	30035	6.483	ug/l #	74
76) 1,2,3-Trichloropropane	12.63	75	176506	64.856	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	46821	2.326	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.63	75	176506	162.264	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	90574	4.538	ug/l	97
90) Hexachloroethane	14.12	117	8131	1.868	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.48	75	736	1.118	ug/l #	3
95) Naphthalene	15.40	128	41571	4.148	ug/l #	87

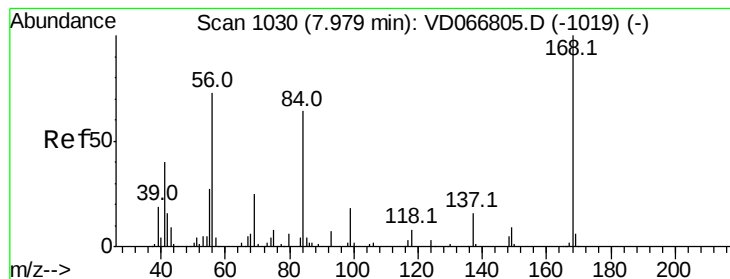
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092420\
Data File : VD066858.D
Acq On : 24 Sep 2020 18:28
Operator : VA/SY
Sample : L4127-03
Misc : 5.07G/5.00ml/MSVOA D/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
B-2(4-5)

Quant Time: Sep 25 01:10:52 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
Quant Title : SW846 8260
QLast Update : Wed Sep 23 01:34:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampleId :

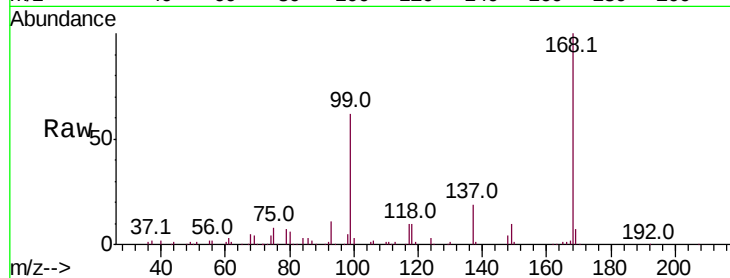
B-2(4-5)

Tot Ion:168 Resp: 390418

Ion Ratio Lower Upper

168 100

99 62.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

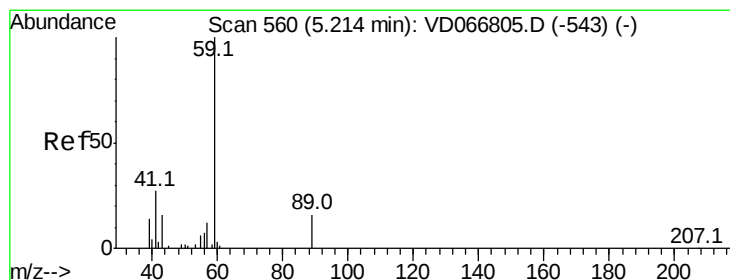
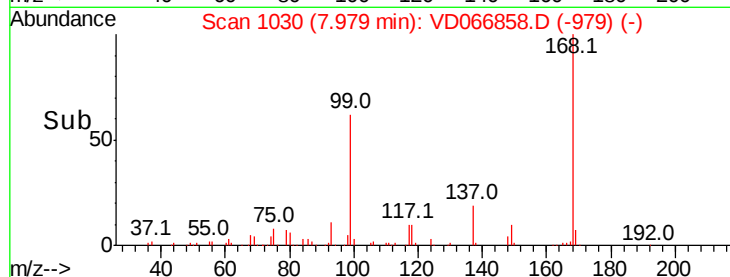
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD066858.D

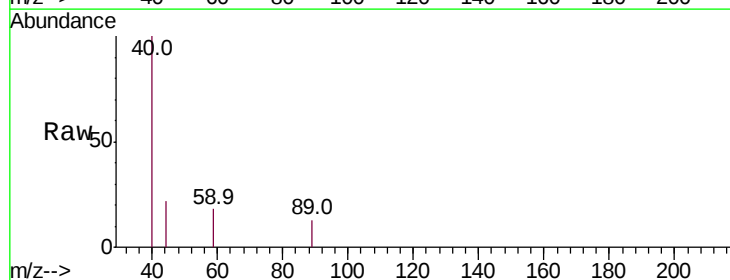
Acq: 24 Sep 2020 18:28

Tgt Ion: 59 Resp: 579

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.20

500

400

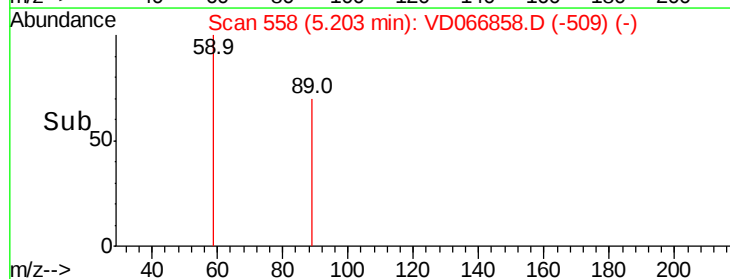
300

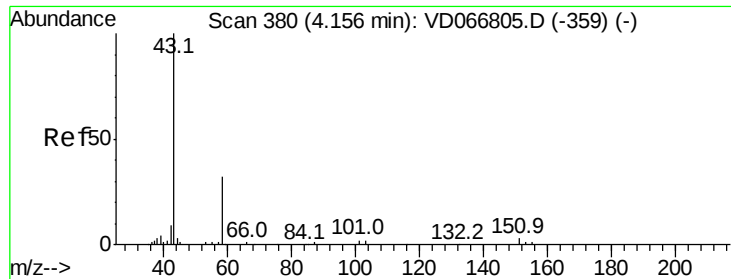
200

100

0

Time-->





#16

Acetone

Concen: 6.671 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampleId :

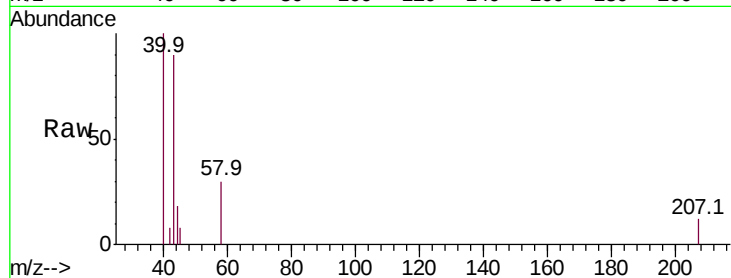
B-2(4-5)

Tot Ion: 43 Resp: 5408

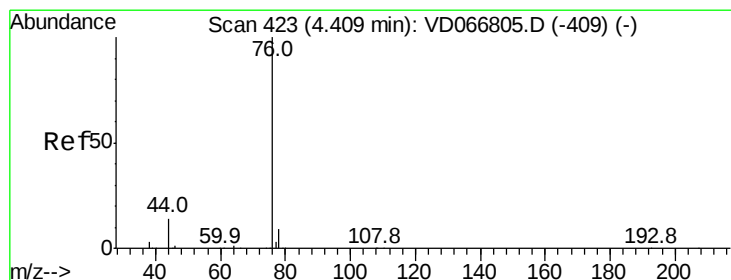
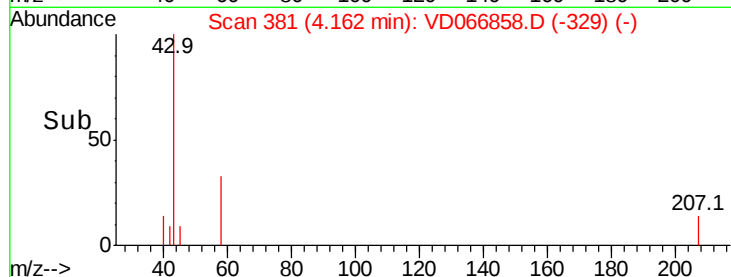
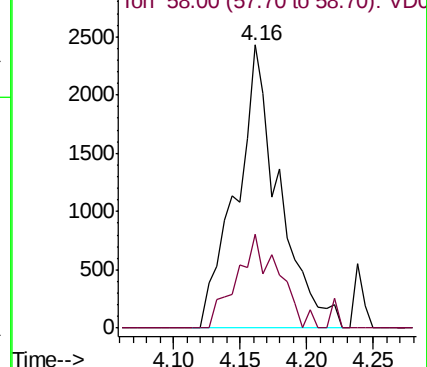
Ion Ratio Lower Upper

43 100

58 33.1 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VDC



#17

Carbon Disulfide

Concen: 1.003 ug/l

RT: 4.41 min Scan# 424

Delta R.T. 0.01 min

Lab File: VD066858.D

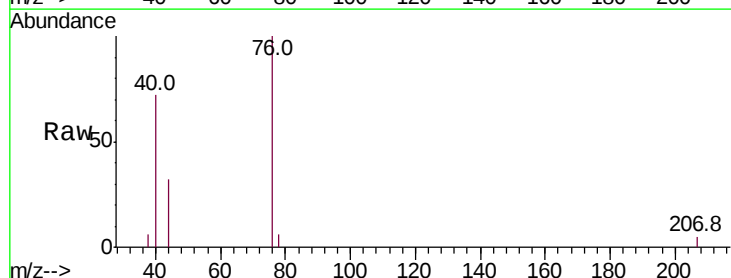
Acq: 24 Sep 2020 18:28

Tgt Ion: 76 Resp: 11724

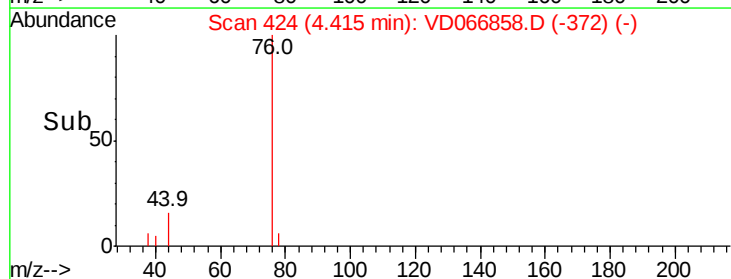
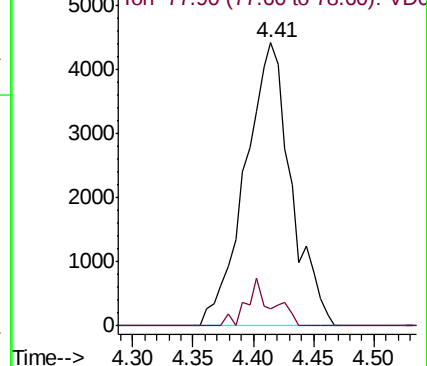
Ion Ratio Lower Upper

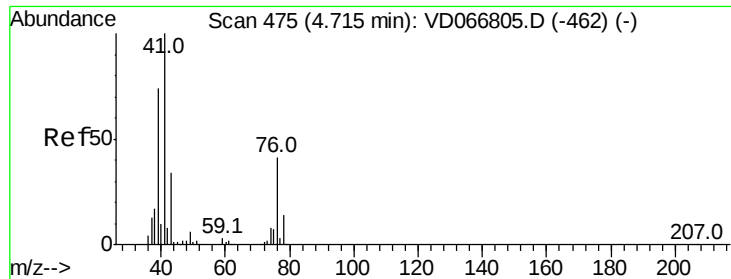
76 100

78 6.2 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VDC

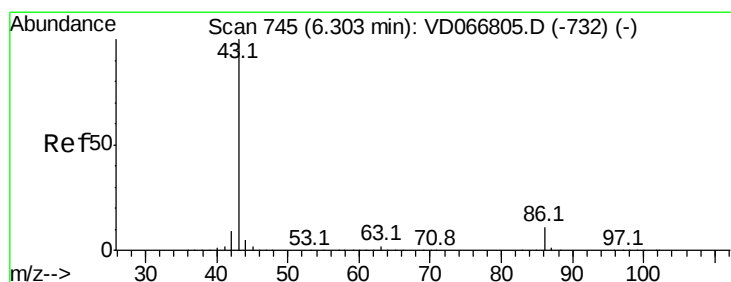
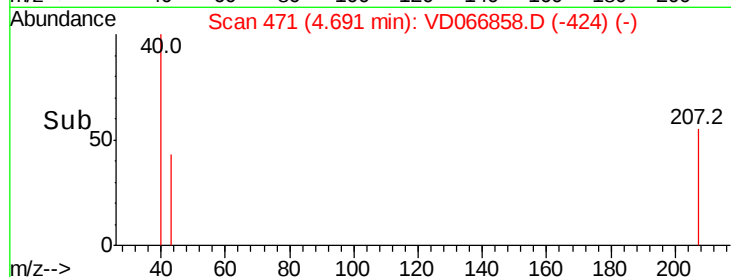
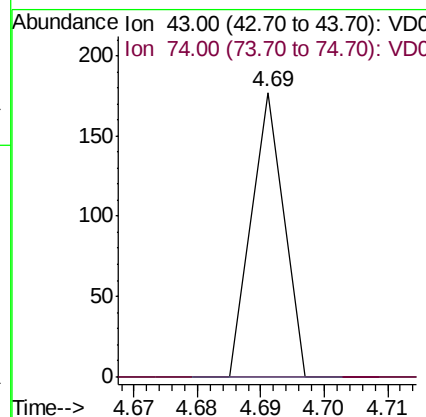
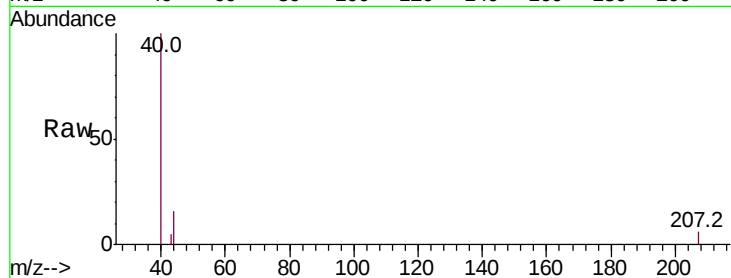




#18
Methyl Acetate
Concen: Below Cal
RT: 4.69 min Scan# 471
Delta R.T. -0.02 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

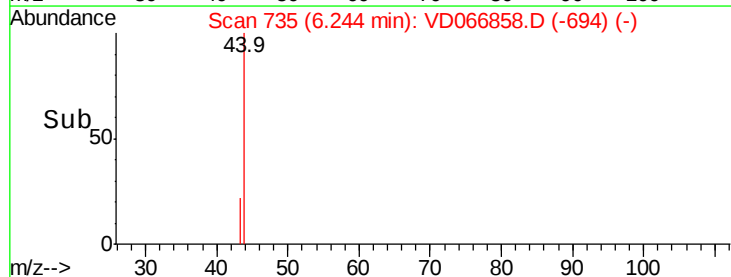
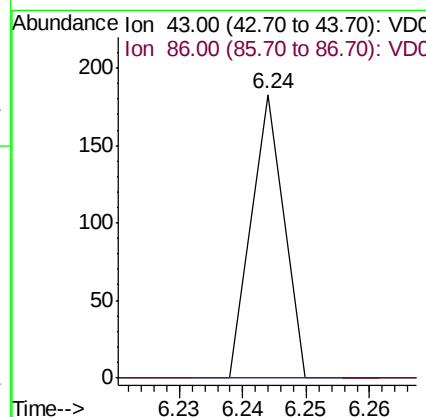
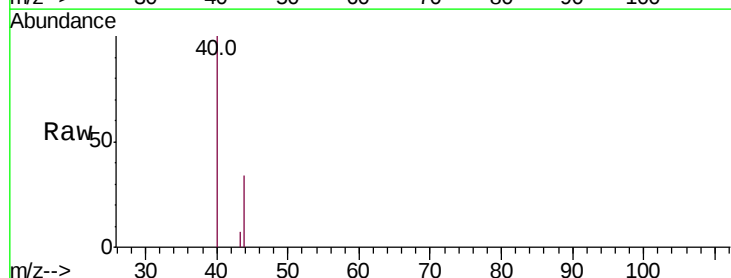
Instrument :
MSVOA_D
ClientSampleId :
B-2(4-5)

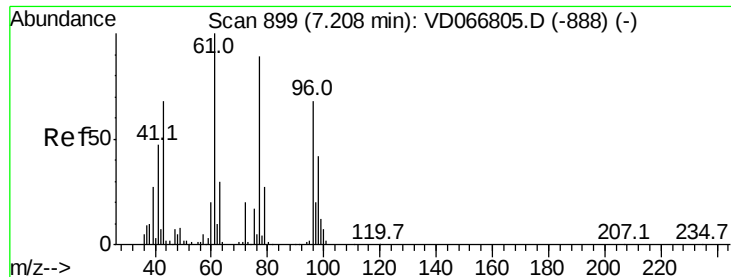
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#23
Vinyl Acetate
Concen: 2.682 ug/l
RT: 6.24 min Scan# 735
Delta R.T. -0.06 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
86 0.0 8.9 13.3#





#25

2-Butanone

Concen: 2.966 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampleId :

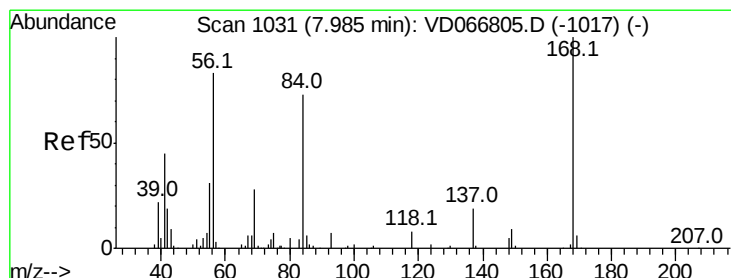
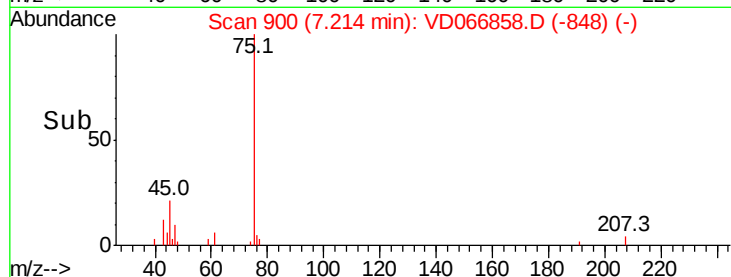
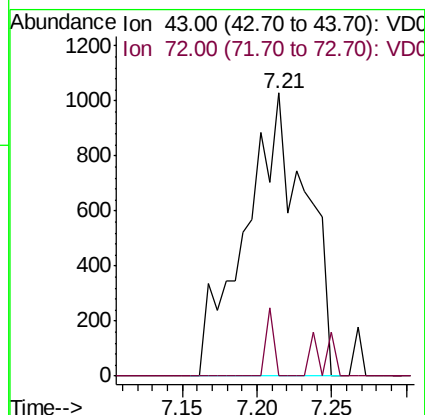
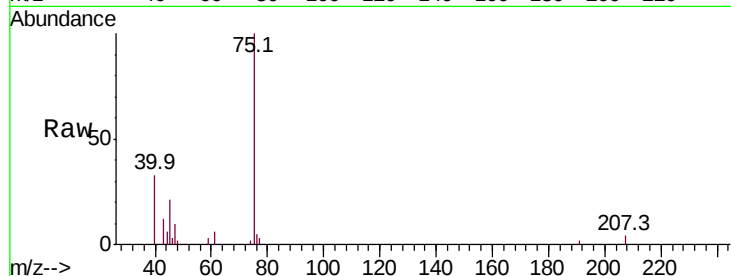
B-2(4-5)

Tot Ion: 43 Resp: 2889

Ion Ratio Lower Upper

43 100

72 0.0 22.9 34.3#



#31

Cyclohexane

Concen: 1.452 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

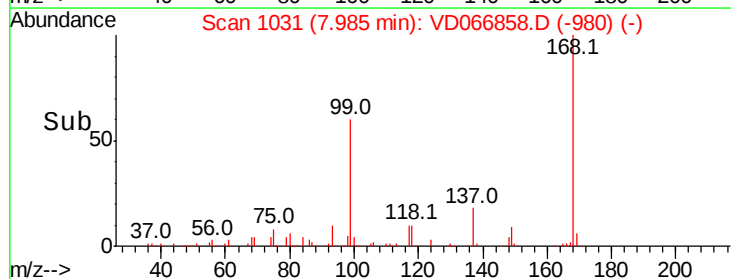
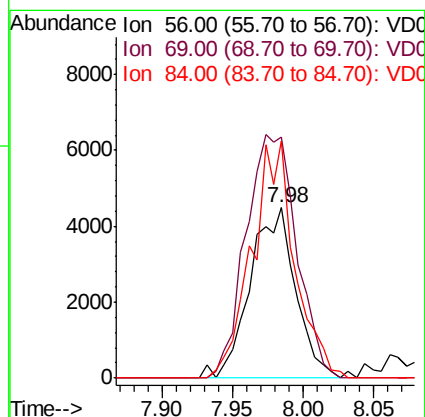
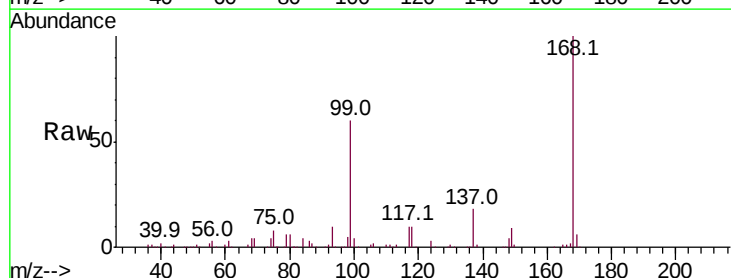
Tgt Ion: 56 Resp: 10089

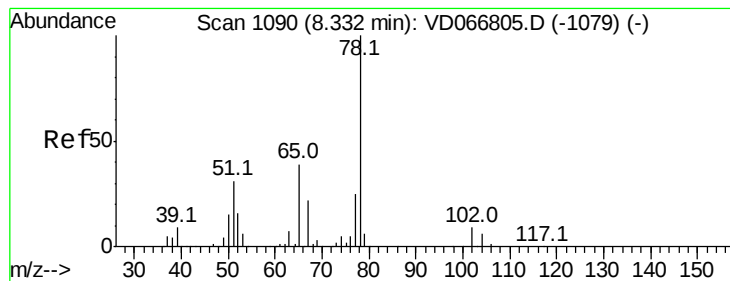
Ion Ratio Lower Upper

56 100

69 141.4 27.0 40.4#

84 139.6 70.2 105.4#





#33

1,2-Dichloroethane-d4

Concen: 54.934 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampled :

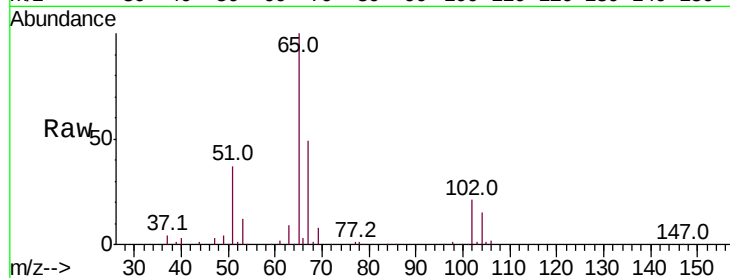
B-2(4-5)

Tot Ion: 65 Resp: 209915

Ion Ratio Lower Upper

65 100

67 51.6 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

60000

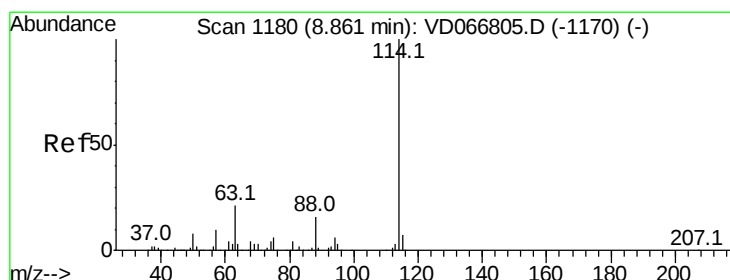
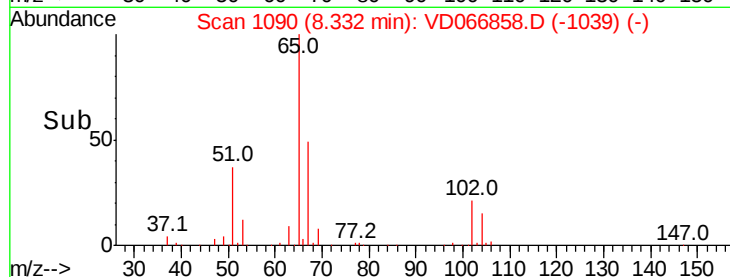
40000

20000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

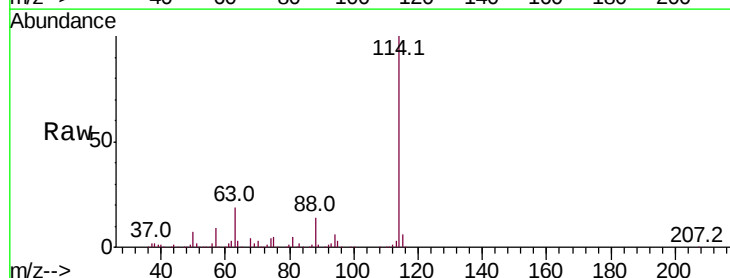
Tgt Ion:114 Resp: 710526

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.6

88 14.3 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

500000

400000

300000

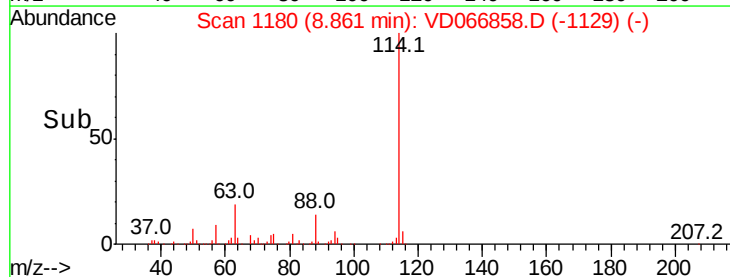
200000

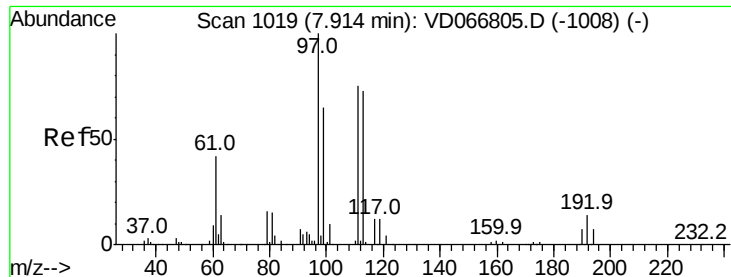
100000

0

8.80 8.90 9.00

Time-->

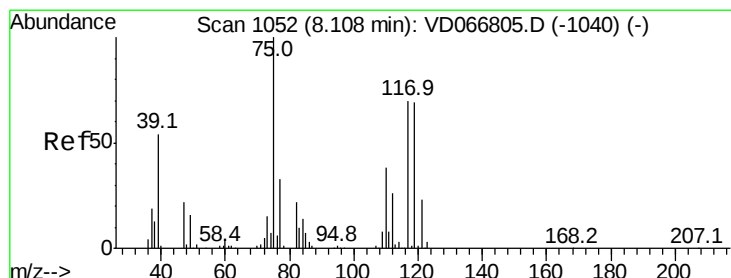
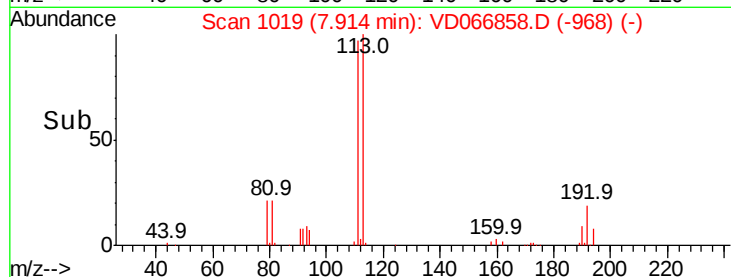
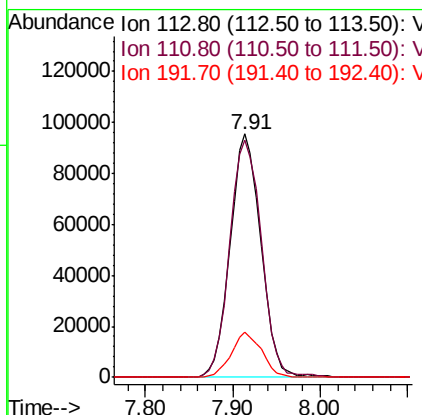
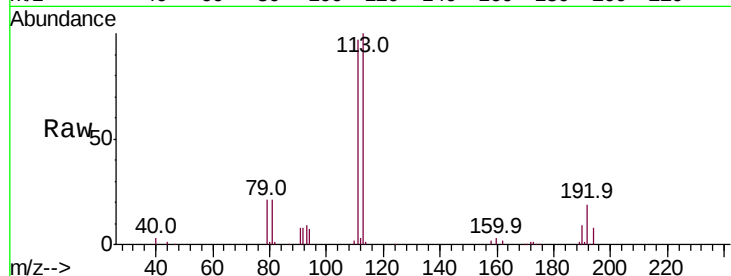




#35
 Dibromofluoromethane
 Concen: 50.210 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD066858.D
 Acq: 24 Sep 2020 18:28

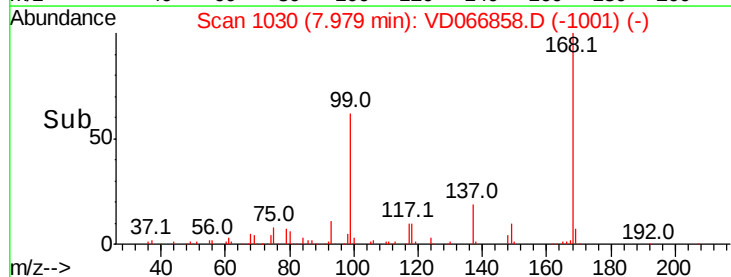
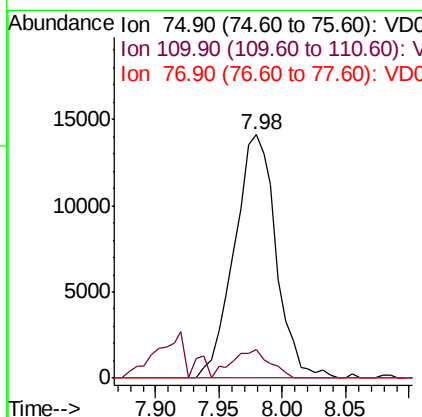
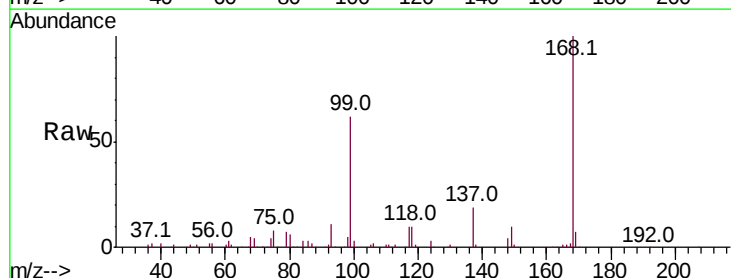
Instrument :
 MSVOA_D
 ClientSampleId :
 B-2(4-5)

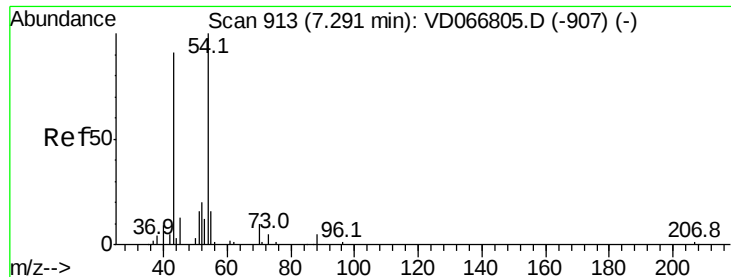
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.8	122.8
192	18.5	14.4	21.6



#36
 1,1-Dichloropropene
 Concen: 4.584 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD066858.D
 Acq: 24 Sep 2020 18:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	17.9	53.8#
77	0.0	25.0	37.6#





#37

Ethyl Acetate

Concen: 1.134 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.08 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampleID :

B-2(4-5)

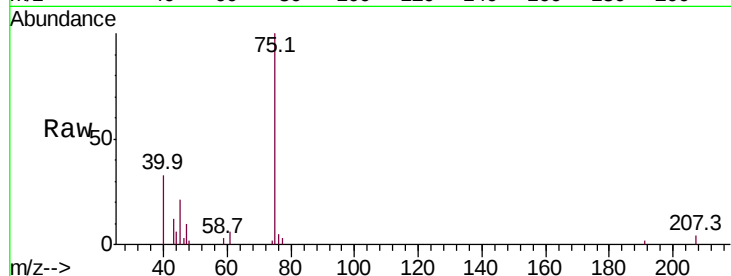
Tot Ion: 43 Resp: 2889

Ion Ratio Lower Upper

43 100

61 48.9 9.8 14.8#

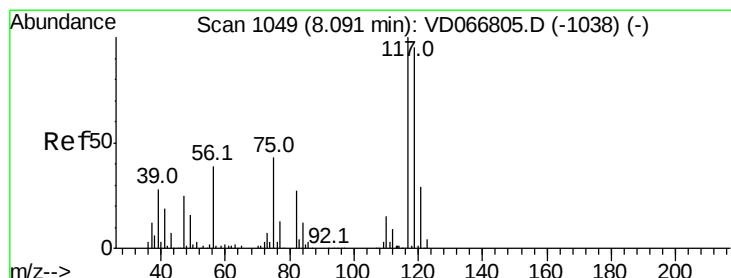
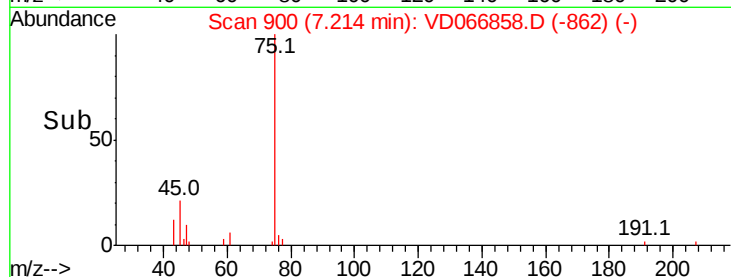
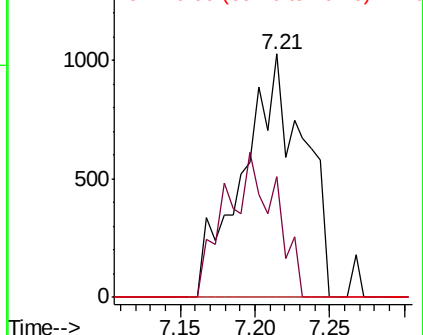
70 0.0 8.5 12.7#



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: 5.324 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

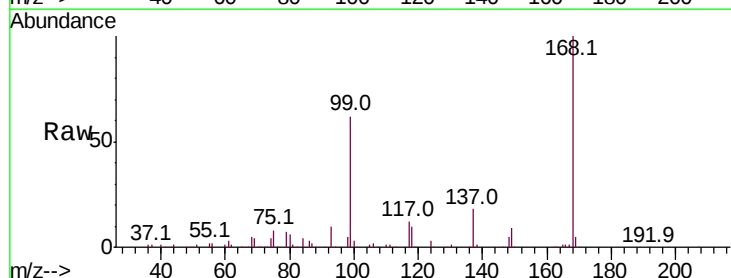
Tgt Ion: 117 Resp: 41027

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.8#

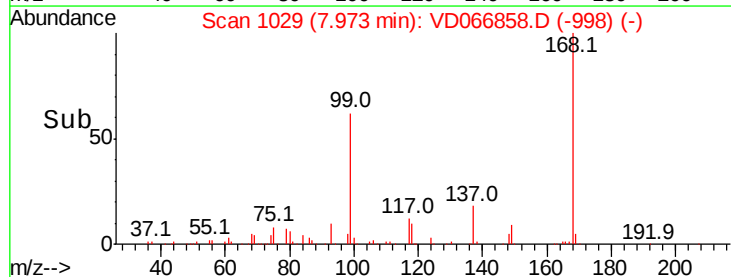
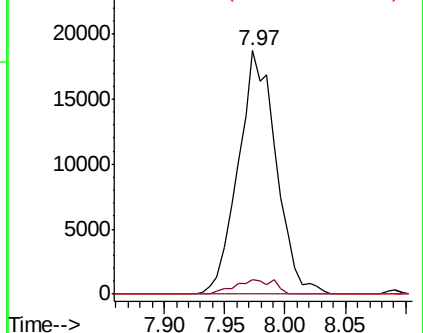
121 0.0 23.4 35.0#

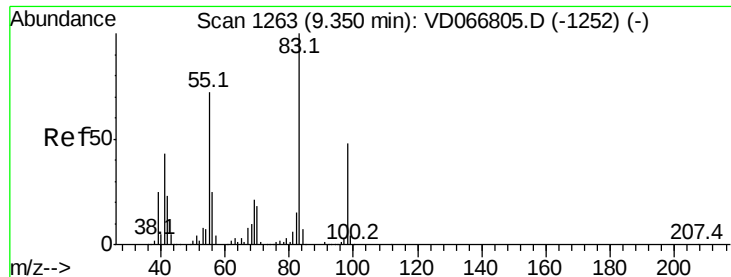


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

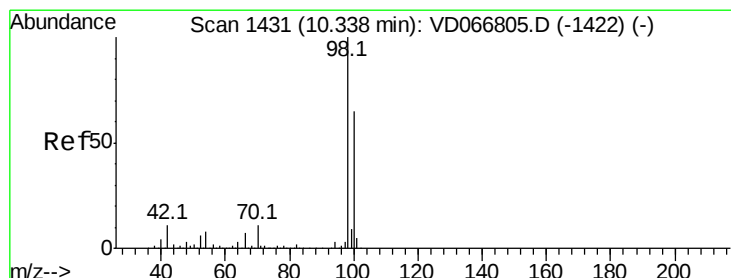
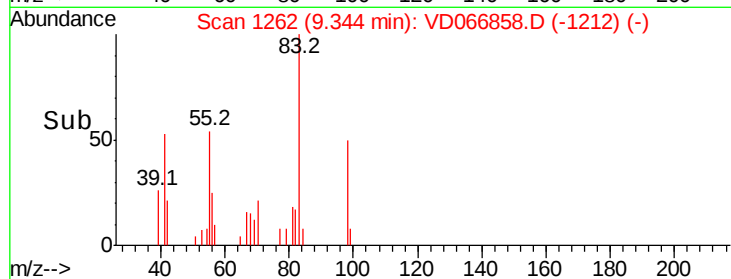
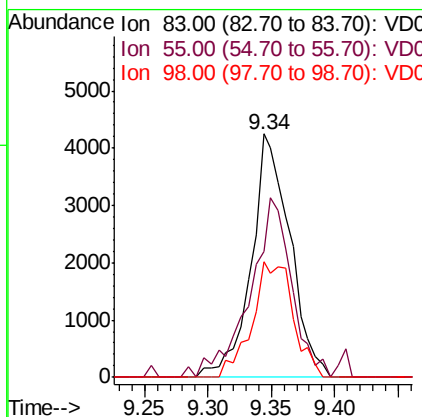
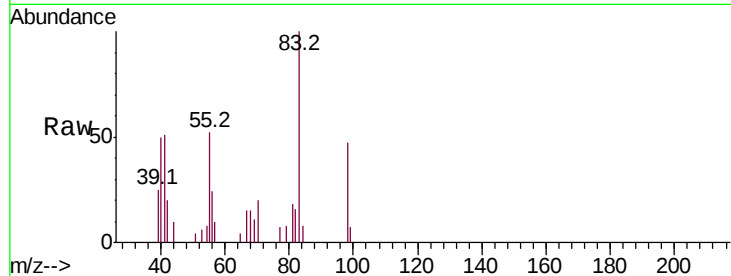




#39
Methylcyclohexane
Concen: 1.116 ug/l
RT: 9.34 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

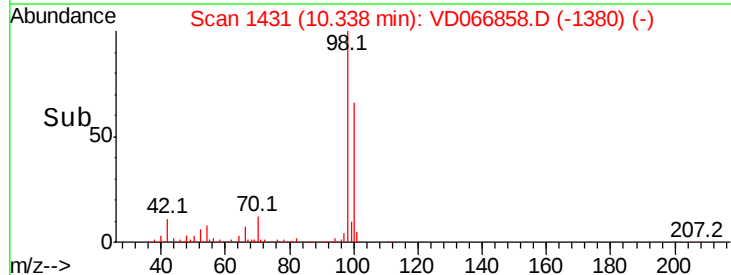
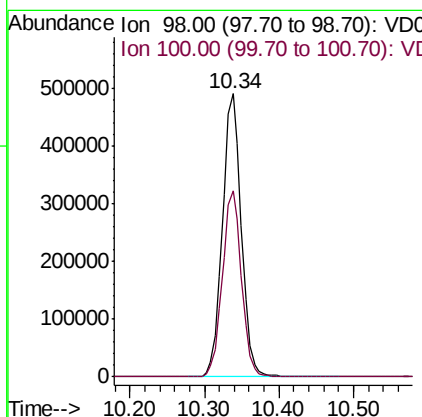
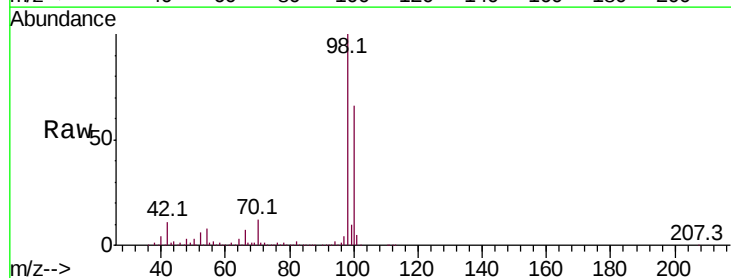
Instrument :
MSVOA_D
ClientSampleId :
B-2(4-5)

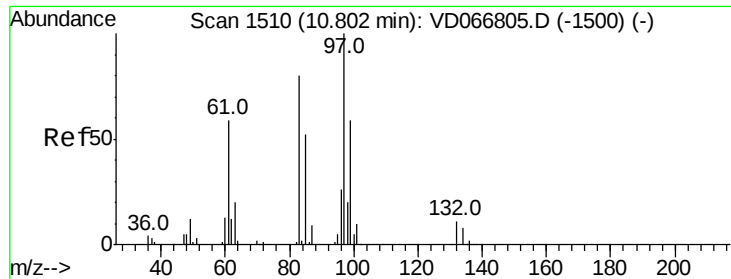
Tot Ion: 83 Resp: 9030
Ion Ratio Lower Upper
83 100
55 47.2 57.7 86.5#
98 47.5 38.4 57.6



#50
Toluene-d8
Concen: 56.194 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

Tgt Ion: 98 Resp: 865475
Ion Ratio Lower Upper
98 100
100 66.5 52.2 78.2

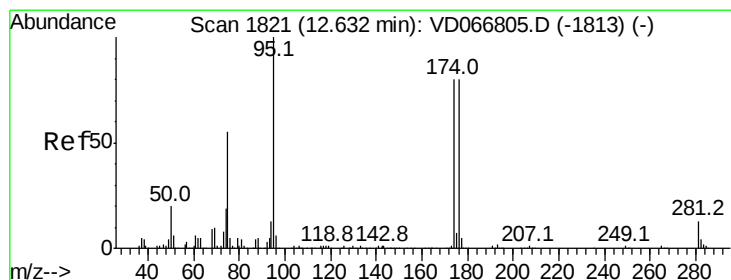
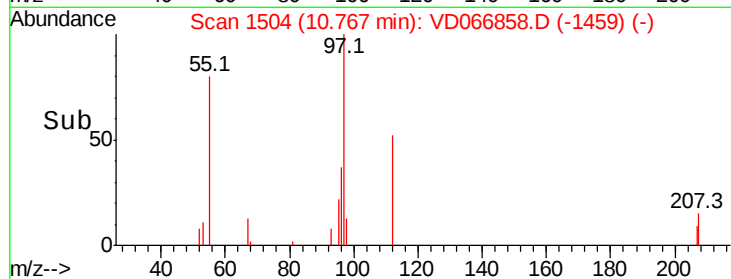
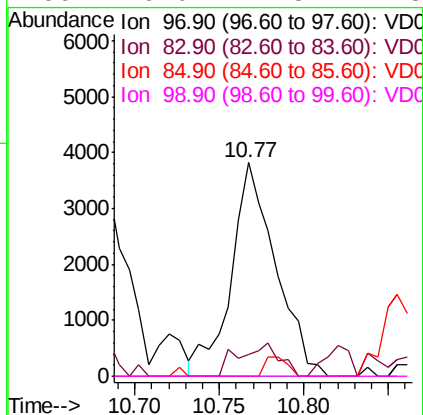
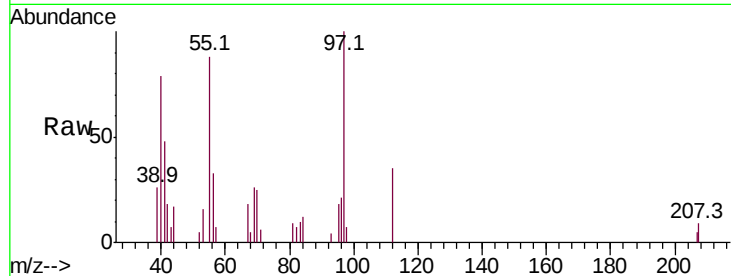




#55
 1,1,2-Trichloroethane
 Concen: 1.888 ug/l
 RT: 10.77 min Scan# 1504
 Delta R.T. -0.04 min
 Lab File: VD066858.D
 Acq: 24 Sep 2020 18:28

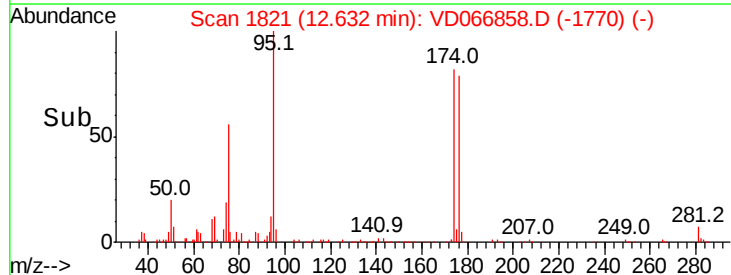
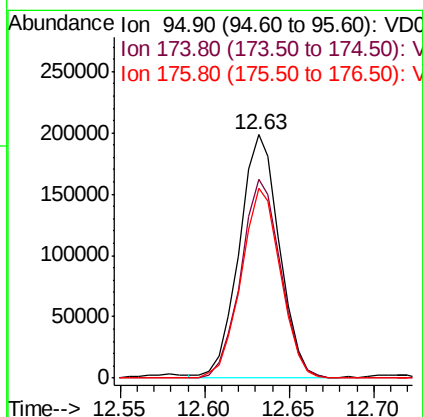
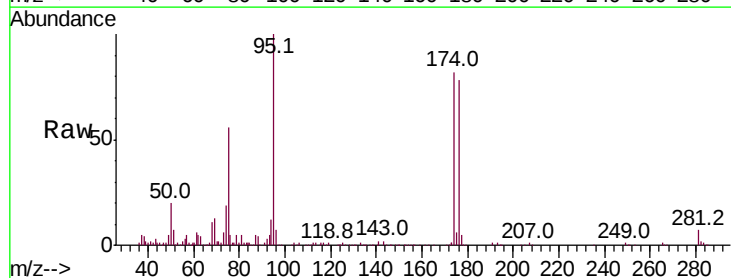
Instrument :
 MSVOA_D
 ClientSampleId :
 B-2(4-5)

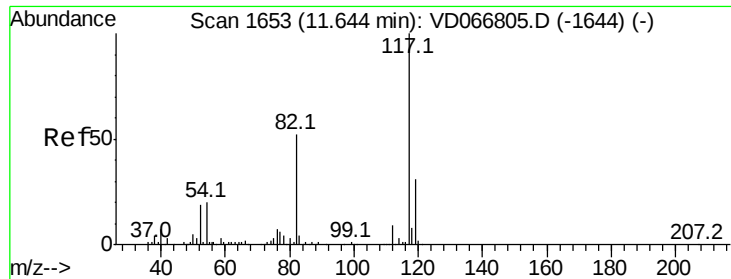
Tot Ion: 97 Resp: 6972
 Ion Ratio Lower Upper
 97 100
 83 10.2 64.2 96.2#
 85 0.0 41.9 62.9#
 99 0.0 47.5 71.3#



#62
 4-Bromofluorobenzene
 Concen: 61.648 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.00 min
 Lab File: VD066858.D
 Acq: 24 Sep 2020 18:28

Tgt Ion: 95 Resp: 325040
 Ion Ratio Lower Upper
 95 100
 174 81.8 0.0 159.8
 176 77.6 0.0 154.4

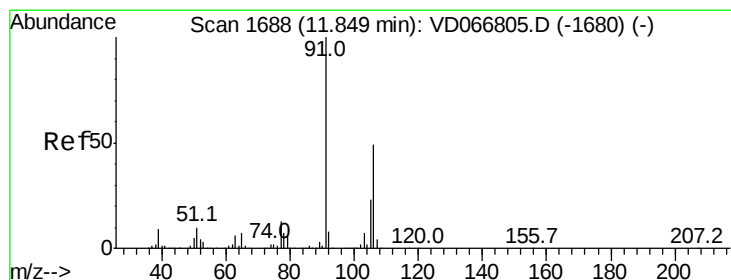
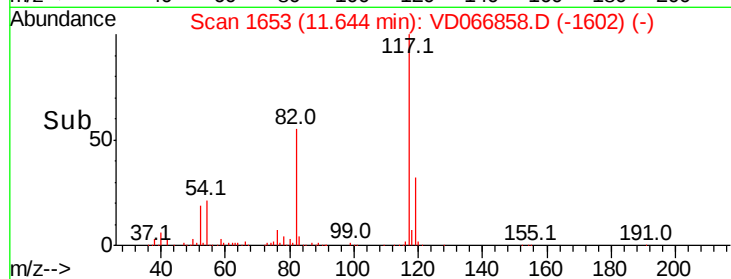
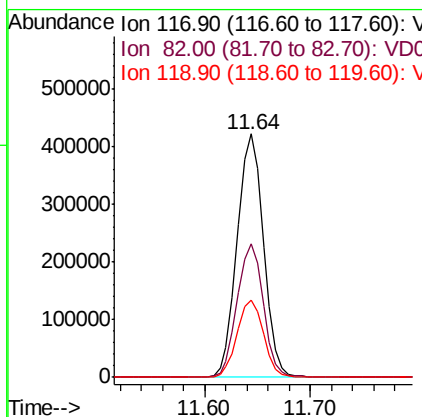
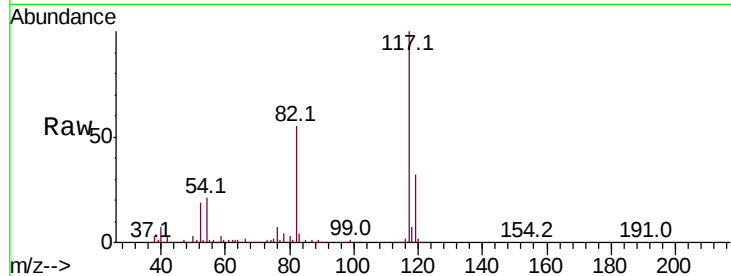




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

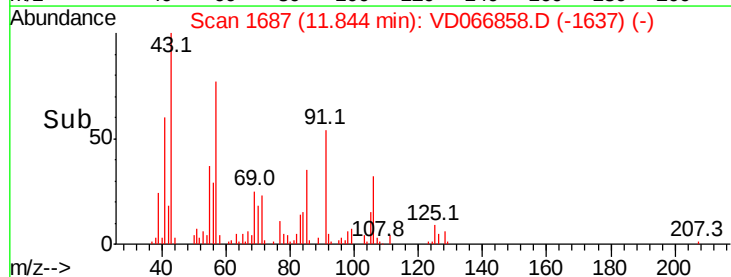
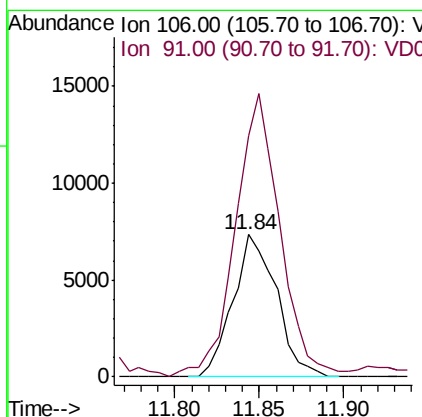
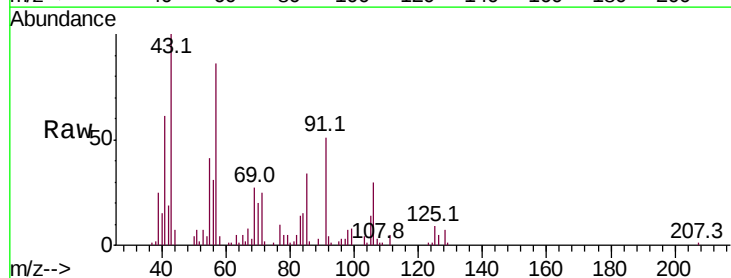
Instrument :
MSVOA_D
ClientSampleId :
B-2(4-5)

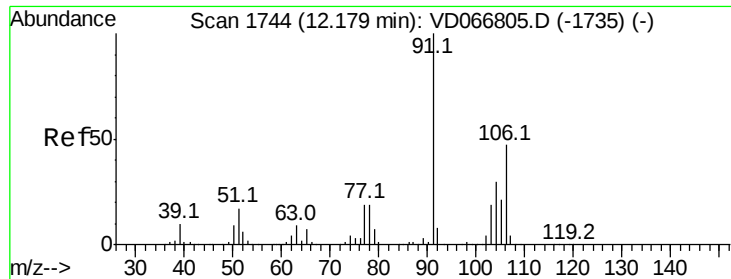
Tot Ion:117 Resp: 726540
Ion Ratio Lower Upper
117 100
82 54.8 41.8 62.6
119 31.9 24.6 37.0



#68
m/p-Xylenes
Concen: 1.307 ug/l
RT: 11.84 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

Tgt Ion:106 Resp: 13147
Ion Ratio Lower Upper
106 100
91 204.5 160.7 241.1

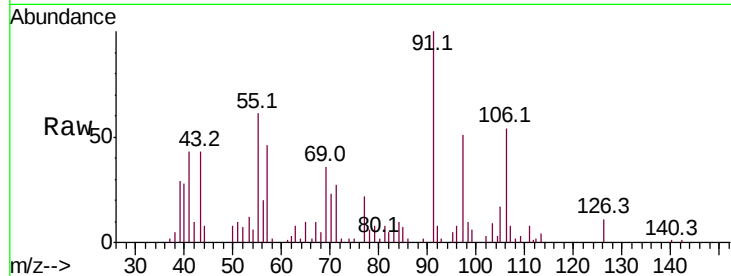




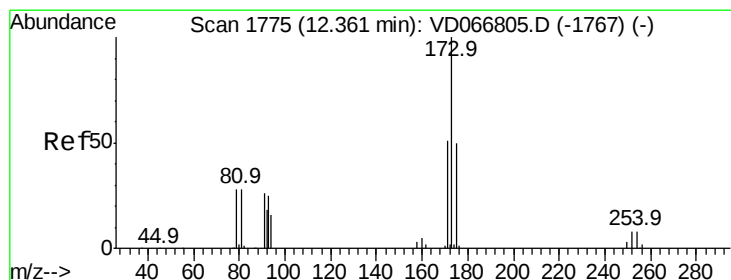
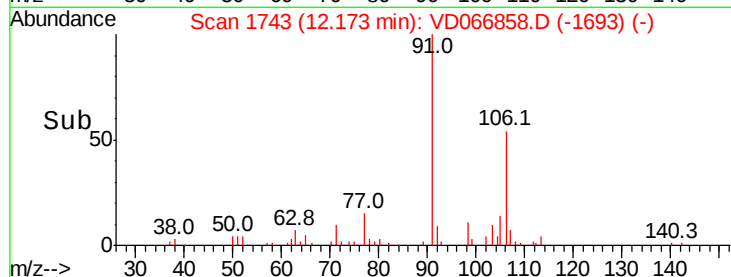
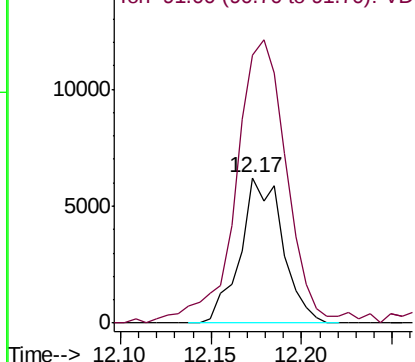
#69
o-Xylene
Concen: 1.113 ug/l
RT: 12.17 min Scan# 1743
Delta R.T. -0.01 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

Instrument :
MSVOA_D
ClientSampleId :
B-2(4-5)

Tot Ion:106 Resp: 10123
Ion Ratio Lower Upper
106 100
91 232.2 106.3 318.8

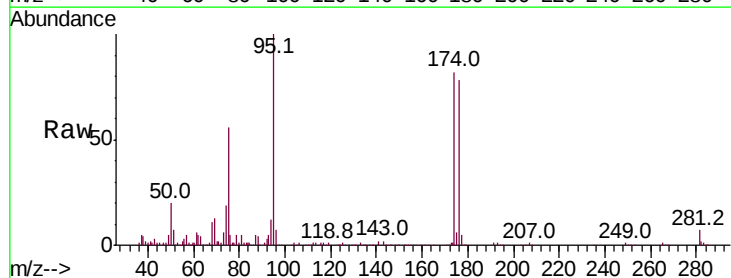


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

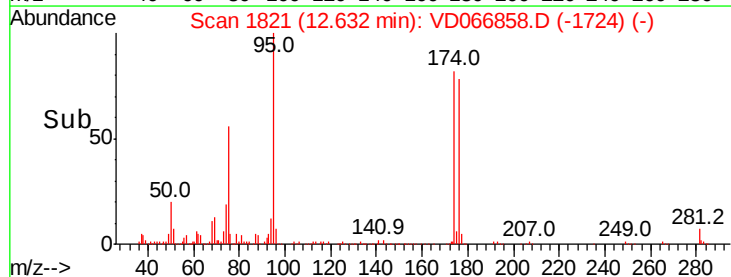
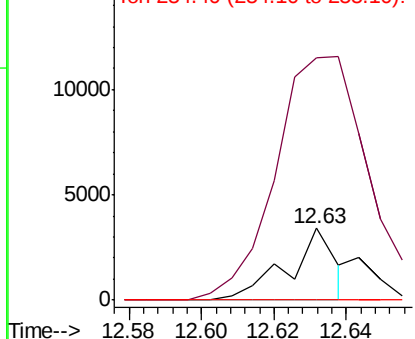


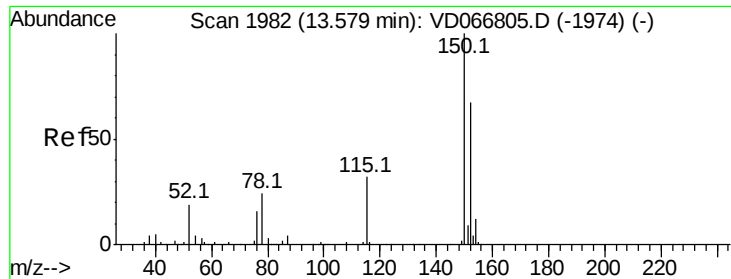
#71
Bromoform
Concen: 1.055 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.27 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

Tgt Ion:173 Resp: 3058
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.6#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampleId :

B-2(4-5)

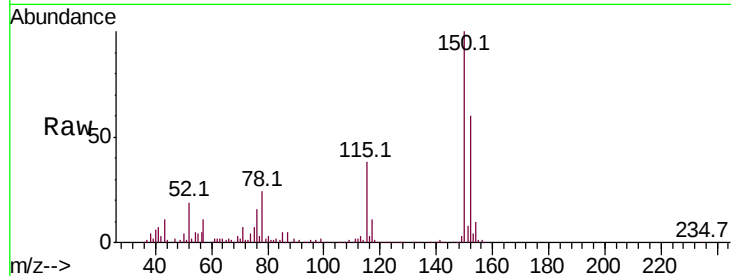
Tot Ion:152 Resp: 328399

Ion Ratio Lower Upper

152 100

115 60.6 30.3 91.0

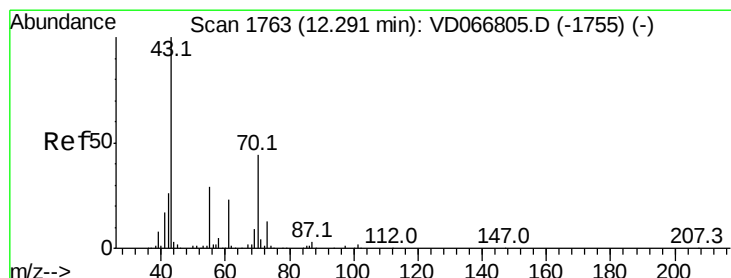
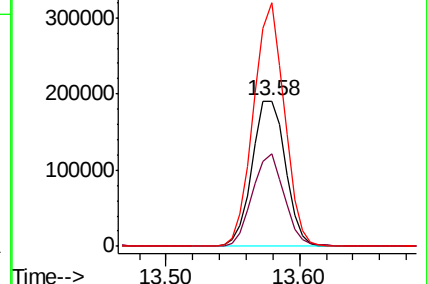
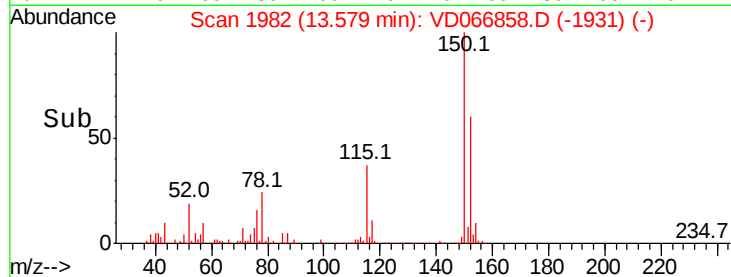
150 155.1 0.0 346.2



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: 6.483 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Tgt Ion: 43 Resp: 30035

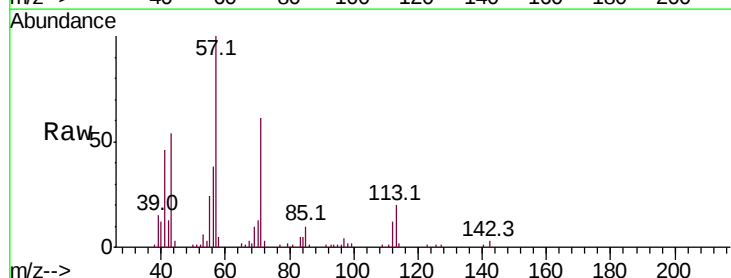
Ion Ratio Lower Upper

43 100

70 25.8 36.1 54.1#

55 26.3 21.8 32.8

61 0.0 19.0 28.4#

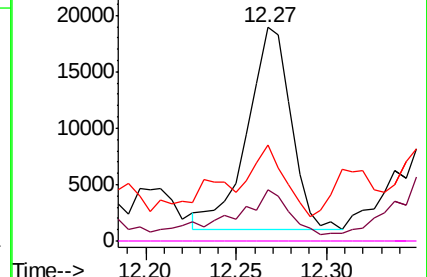
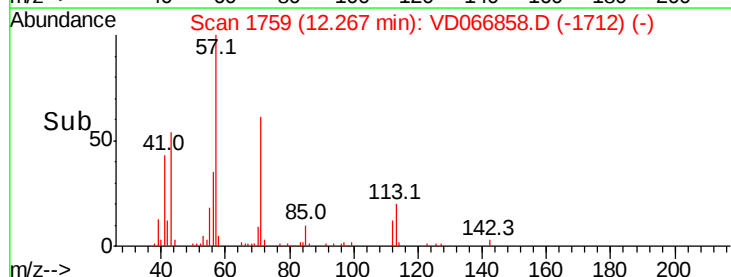


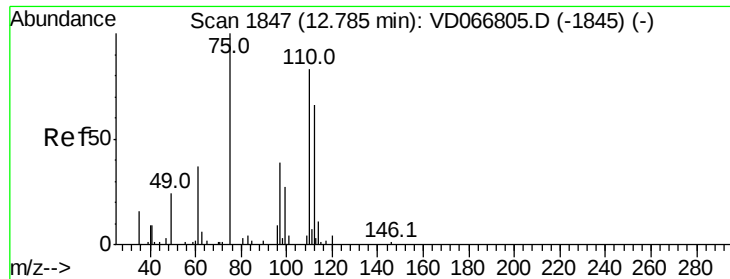
Abundance Ion 43.00 (42.70 to 43.70): VDC

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: 64.856 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampleId :

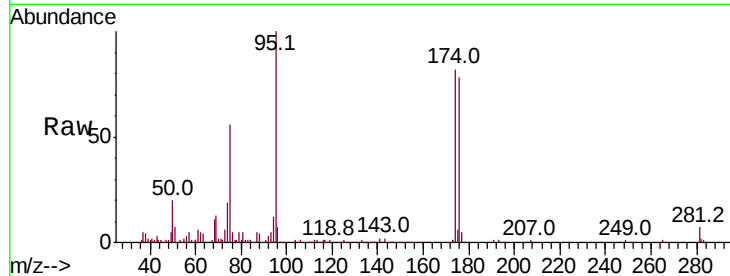
B-2(4-5)

Tot Ion: 75 Resp: 176506

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

100000

80000

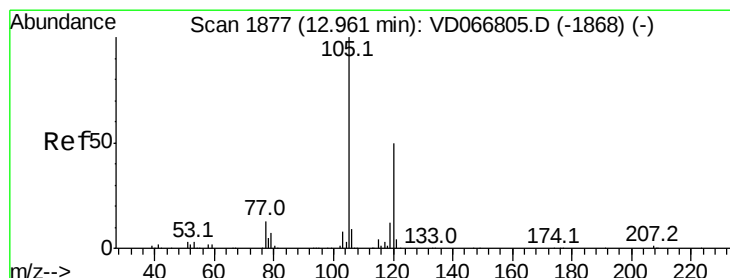
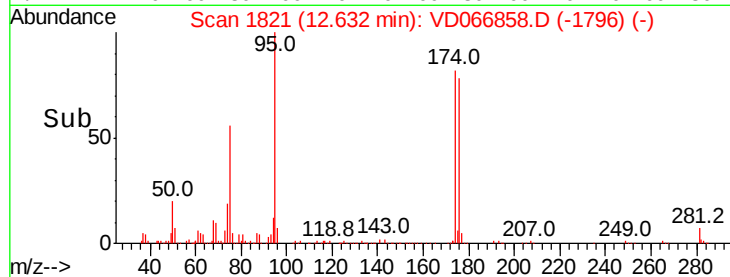
60000

40000

20000

0

Time--> 12.50 12.60 12.70



#80

1,3,5-Trimethylbenzene

Concen: 2.326 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD066858.D

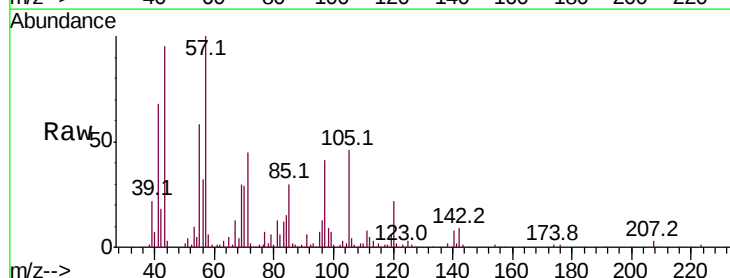
Acq: 24 Sep 2020 18:28

Tgt Ion:105 Resp: 46821

Ion Ratio Lower Upper

105 100

120 47.7 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.96

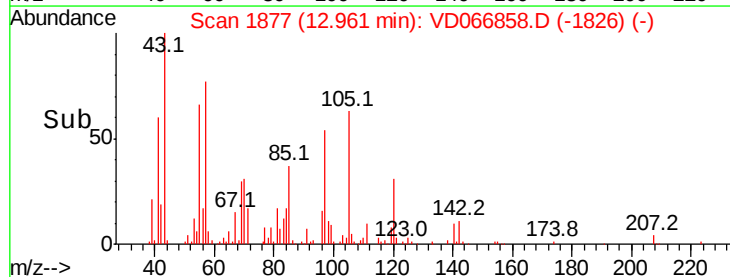
30000

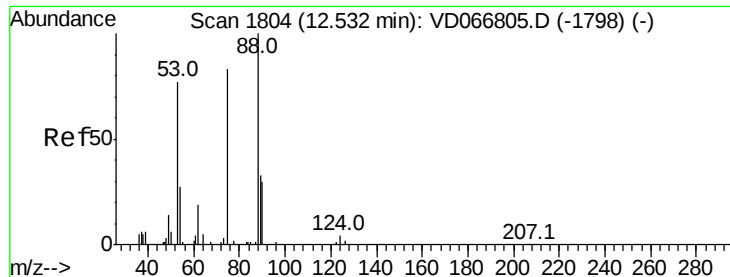
20000

10000

0

Time--> 12.90 12.95 13.00





#81

trans-1,4-Dichloro-2-butene

Concen: 162.264 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampled :

B-2(4-5)

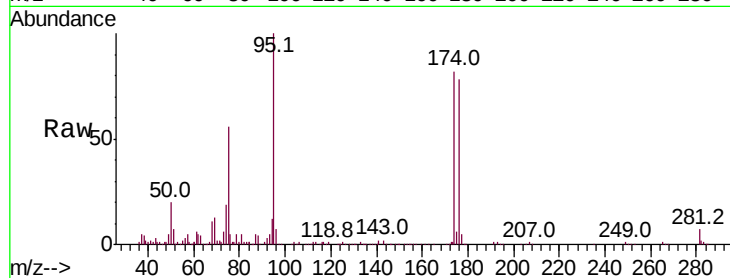
Tot Ion: 75 Resp: 176506

Ion Ratio Lower Upper

75 100

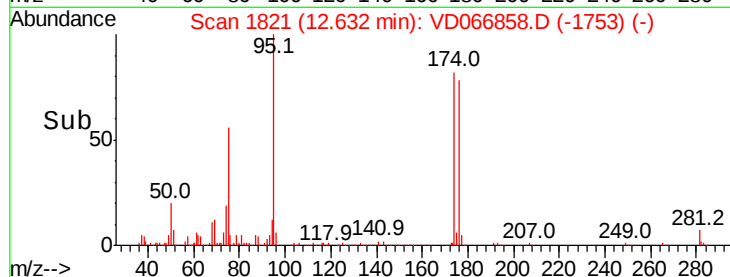
53 0.5 78.5 117.7#

89 0.1 38.1 57.1#

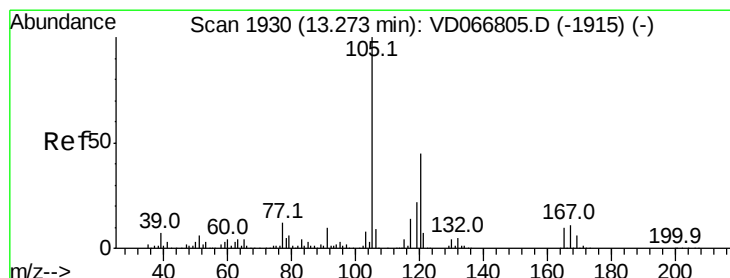


Abundance Ion 74.90 (74.60 to 75.60): VDC
150000 Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC

12.63



Time--> 12.50 12.60 12.70



#84

1,2,4-Trimethylbenzene

Concen: 4.538 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD066858.D

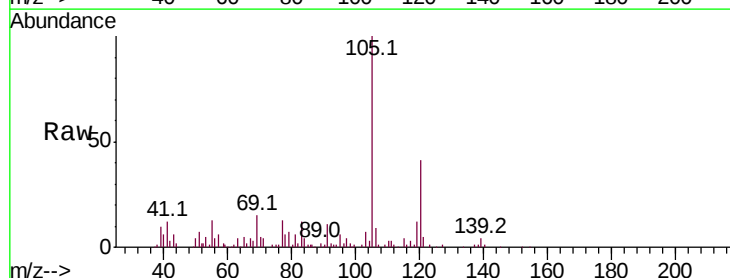
Acq: 24 Sep 2020 18:28

Tgt Ion: 105 Resp: 90574

Ion Ratio Lower Upper

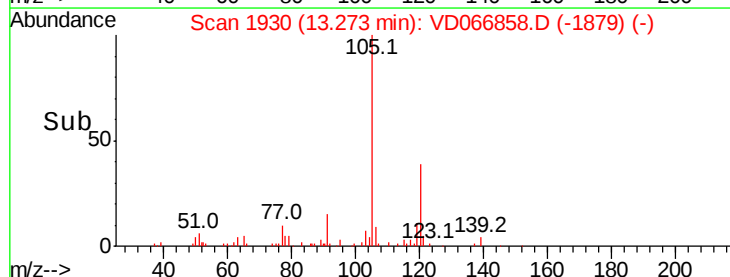
105 100

120 42.7 22.3 66.9

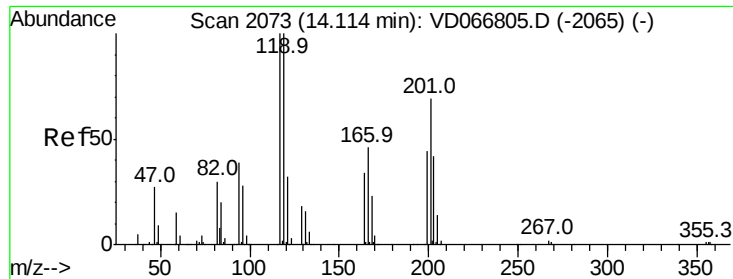


Abundance Ion 105.00 (104.70 to 105.70): V
60000 Ion 120.00 (119.70 to 120.70): V

13.27



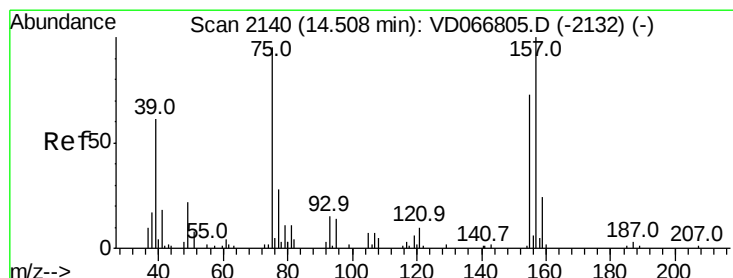
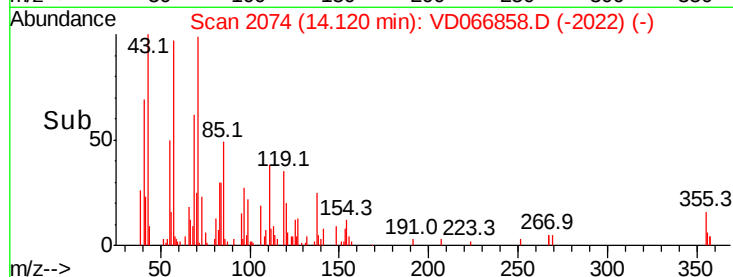
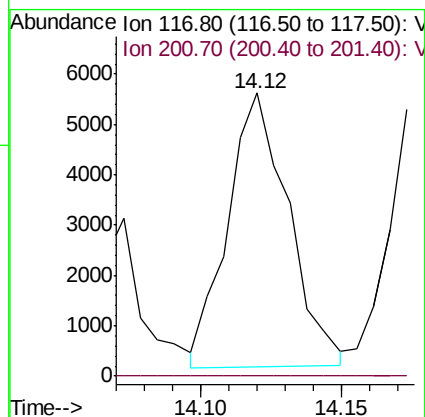
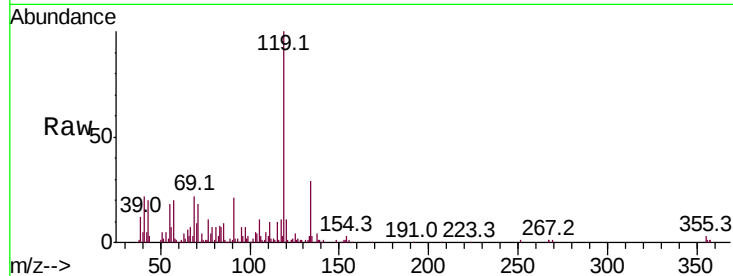
Time--> 13.20 13.30



#90
Hexachloroethane
Concen: 1.868 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

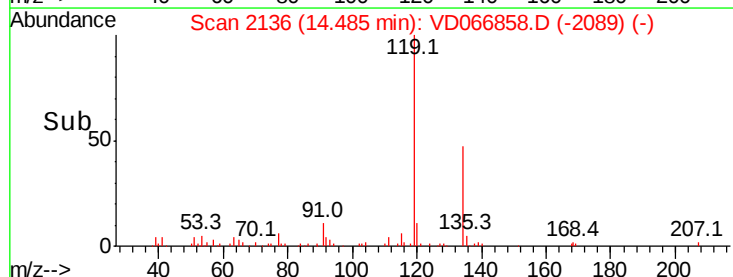
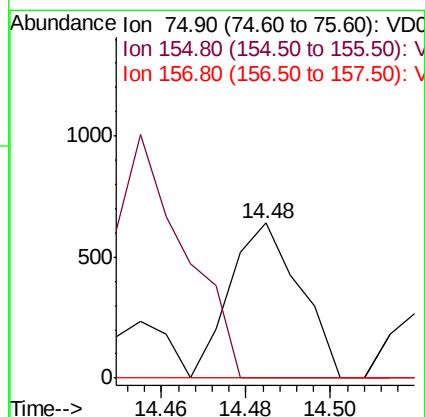
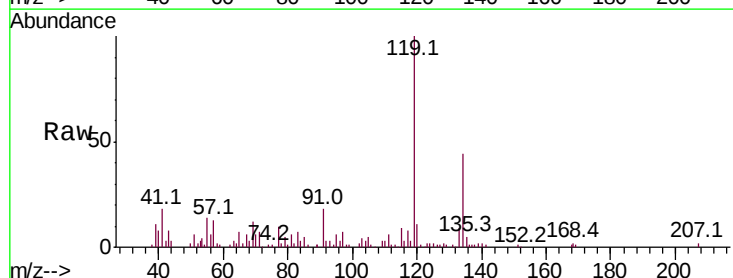
Instrument :
MSVOA_D
ClientSampleId :
B-2(4-5)

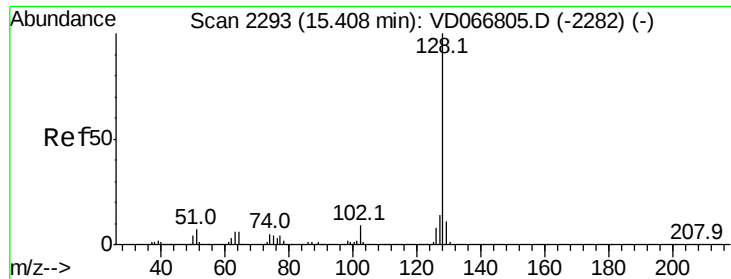
Tot Ion:117 Resp: 8131
Ion Ratio Lower Upper
117 100
201 0.0 33.7 101.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.118 ug/l
RT: 14.48 min Scan# 2136
Delta R.T. -0.02 min
Lab File: VD066858.D
Acq: 24 Sep 2020 18:28

Tgt Ion: 75 Resp: 736
Ion Ratio Lower Upper
75 100
155 0.0 40.4 121.2#
157 0.0 51.3 153.9#





#95

Naphthalene

Concen: 4.148 ug/l

RT: 15.40 min Scan# 2291

Delta R.T. -0.01 min

Lab File: VD066858.D

Acq: 24 Sep 2020 18:28

Instrument :

MSVOA_D

ClientSampleId :

B-2(4-5)

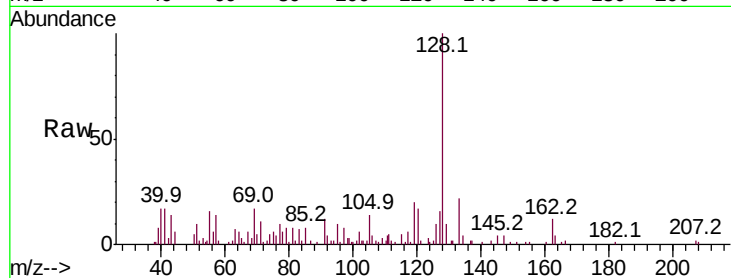
Tot Ion:128 Resp: 41571

Ion Ratio Lower Upper

128 100

127 19.9 10.6 16.0#

129 14.1 8.9 13.3#



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

