

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090320\
 Data File : VD066549.D
 Acq On : 03 Sep 2020 22:18
 Operator : VA/SY
 Sample : L3888-05
 Misc : 7.50G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 9-2-TP-2

Quant Time: Sep 04 05:55:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	351885	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	651001	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	588139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	248207	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	235969	55.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.84%	
35) Dibromofluoromethane	7.91	113	217262	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
50) Toluene-d8	10.34	98	811316	51.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.38%	
62) 4-Bromofluorobenzene	12.63	95	250399	48.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.22%	

Target Compounds

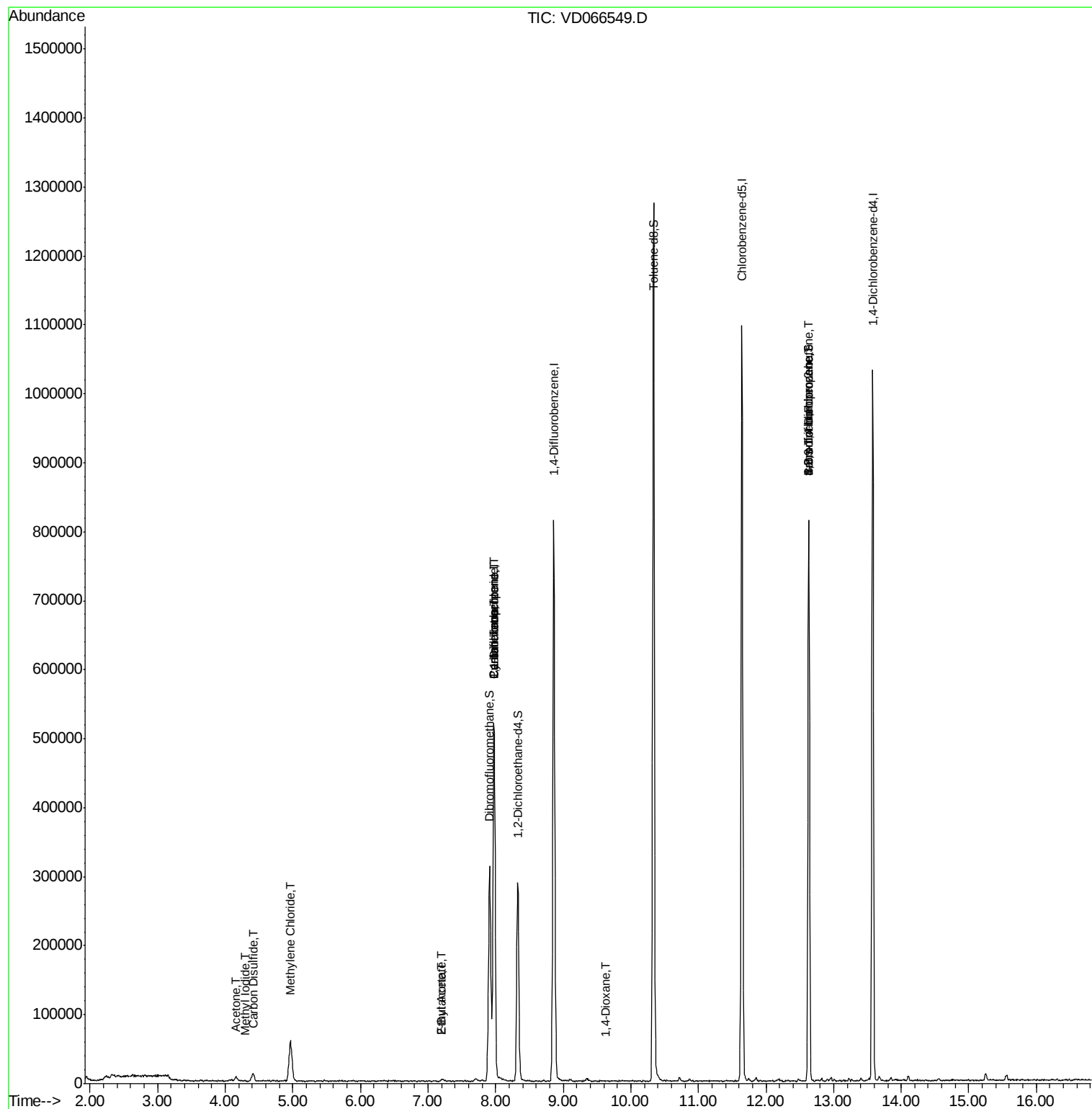
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	805	Below Cal	#	36
5) Bromomethane	2.77	94	1321	Below Cal	#	75
10) Methyl Iodide	4.30	142	511	4.154	ug/l #	35
11) Tert butyl alcohol	5.17	59	105	Below Cal	#	74
16) Acetone	4.16	43	10534	13.447	ug/l #	82
17) Carbon Disulfide	4.41	76	22143	1.900	ug/l	97
20) Methylene Chloride	4.97	84	44154	4.292	ug/l	91
25) 2-Butanone	7.21	43	3008	2.860	ug/l #	51
31) Cyclohexane	7.97	56	11021	1.587	ug/l #	28
36) 1,1-Dichloropropene	7.97	75	32147	4.745	ug/l #	50
37) Ethyl Acetate	7.21	43	3008	1.115	ug/l #	87
38) Carbon Tetrachloride	7.98	117	41035	5.730	ug/l #	17
49) 1,4-Dioxane	9.63	88	66	2.337	ug/l #	23
71) Bromoform	12.63	173	3217	1.378	ug/l #	29
76) 1,2,3-Trichloropropane	12.63	75	139582	58.474	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	139582	136.516	ug/l #	7

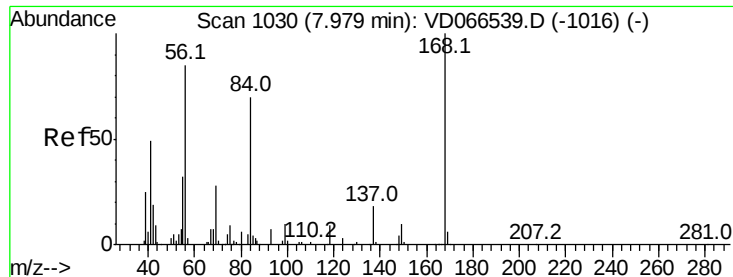
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 04 01:57:04 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampleId :

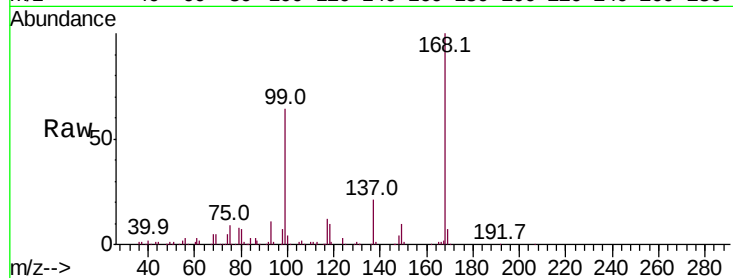
9-2-TP-2

Tot Ion:168 Resp: 351885

Ion Ratio Lower Upper

168 100

99 63.6 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

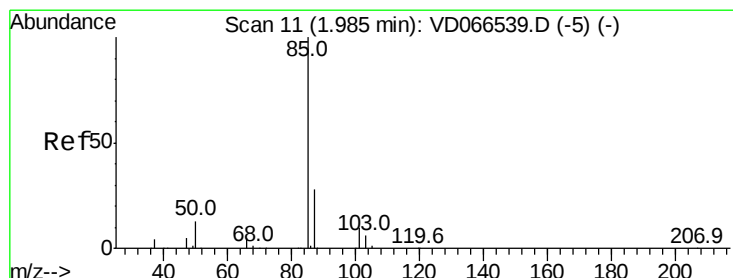
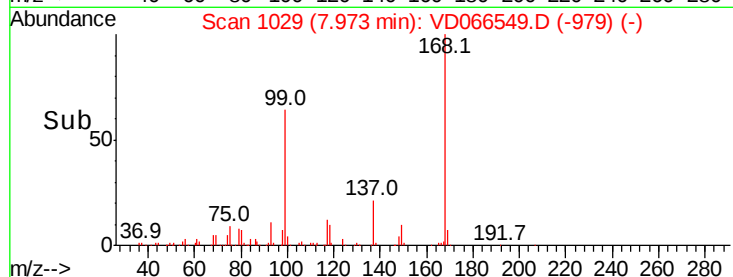
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066549.D

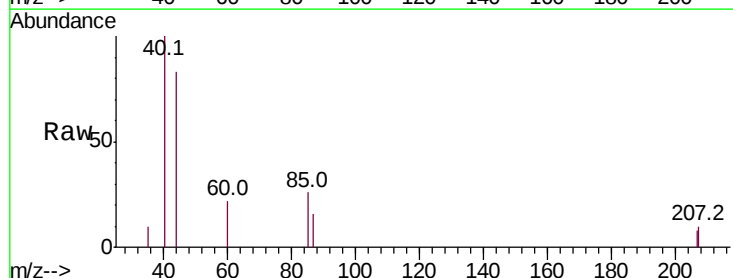
Acq: 03 Sep 2020 22:18

Tgt Ion: 85 Resp: 805

Ion Ratio Lower Upper

85 100

87 62.4 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

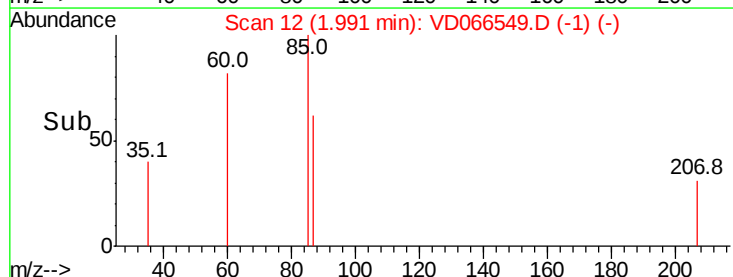
600

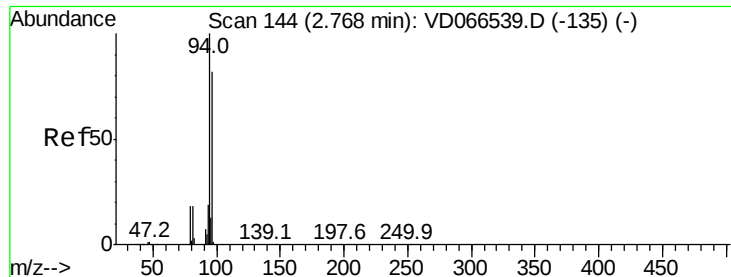
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampled :

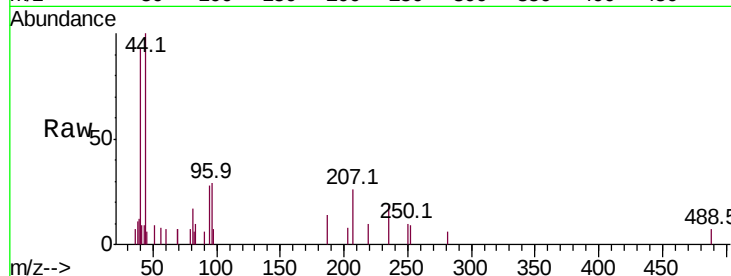
9-2-TP-2

Tot Ion: 94 Resp: 1321

Ion Ratio Lower Upper

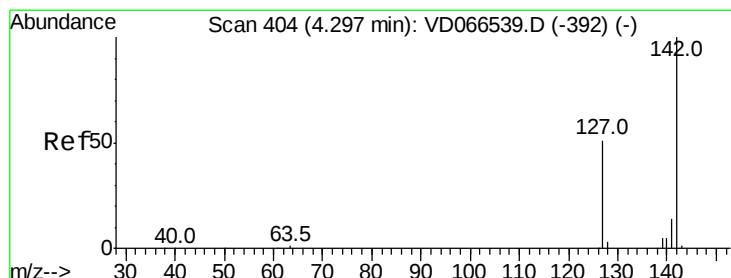
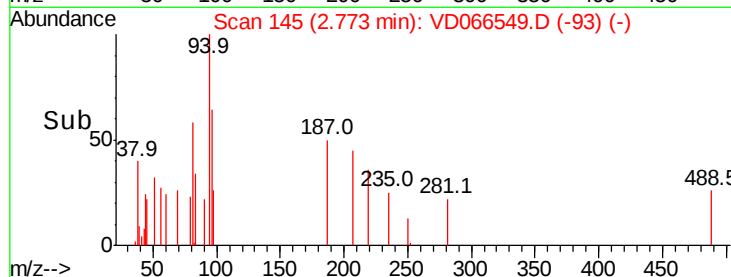
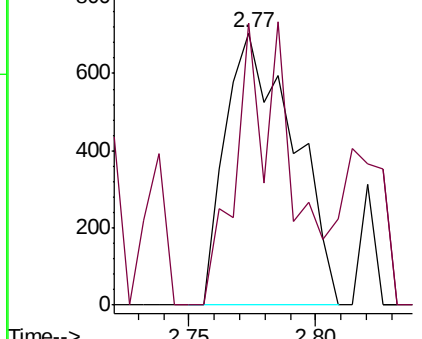
94 100

96 103.5 65.2 97.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 4.154 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

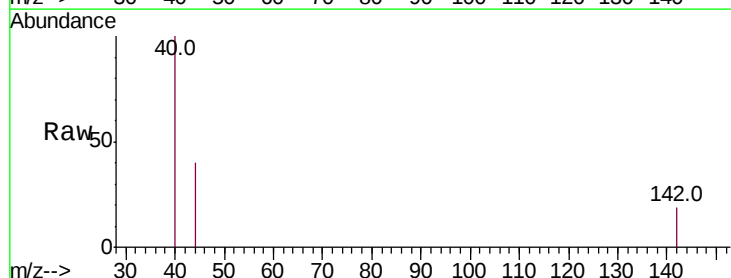
Tgt Ion: 142 Resp: 511

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

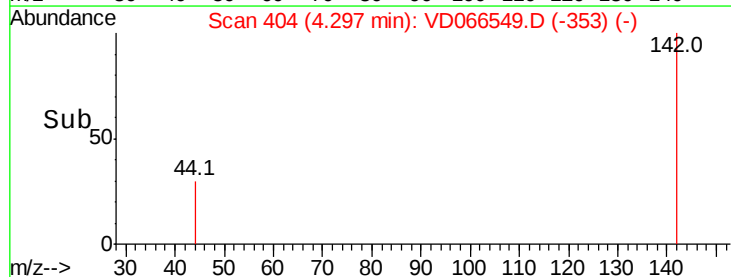
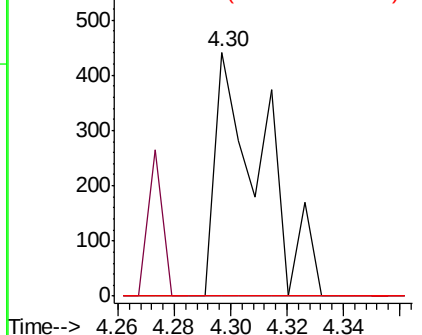
141 0.0 12.2 18.4#

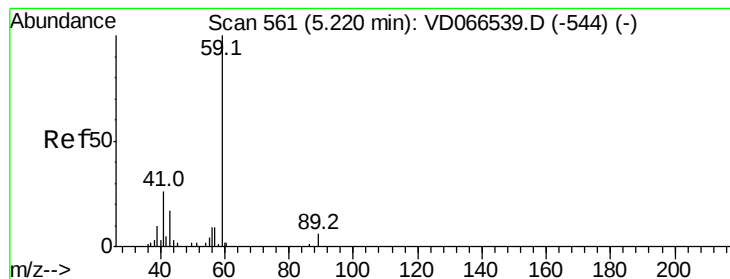


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



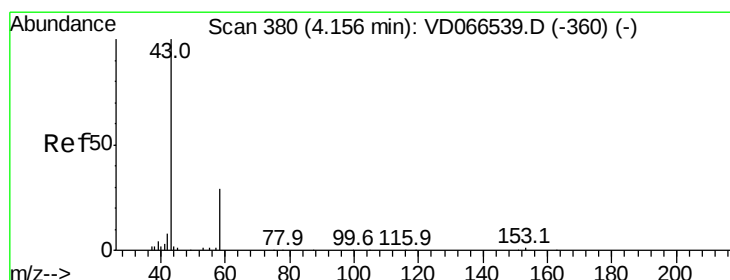
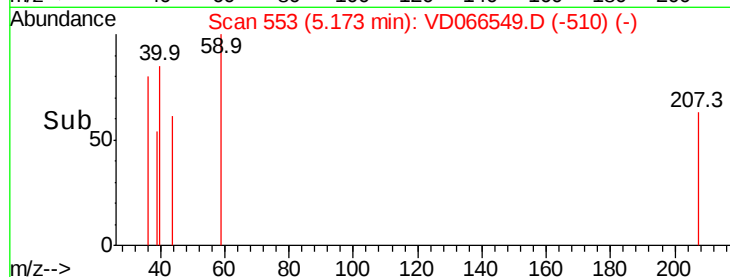
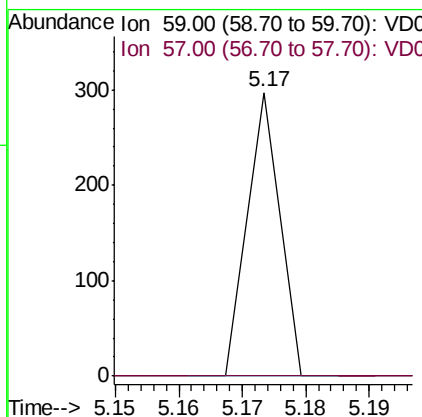
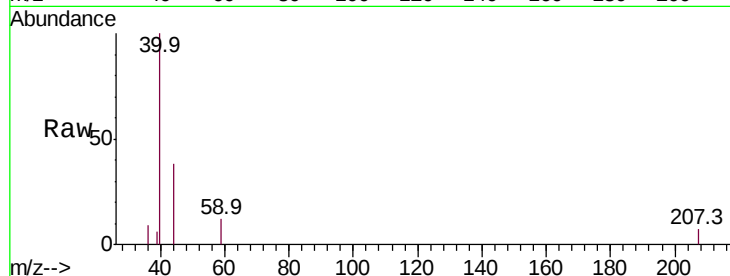


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.17 min Scan# 553
 Delta R.T. -0.05 min
 Lab File: VD066549.D
 Acq: 03 Sep 2020 22:18

Instrument :
 MSVOA_D
 ClientSampleId :
 9-2-TP-2

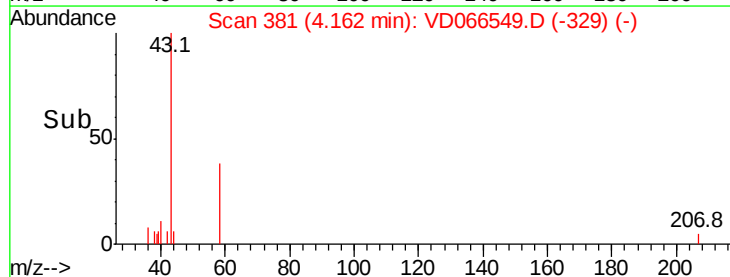
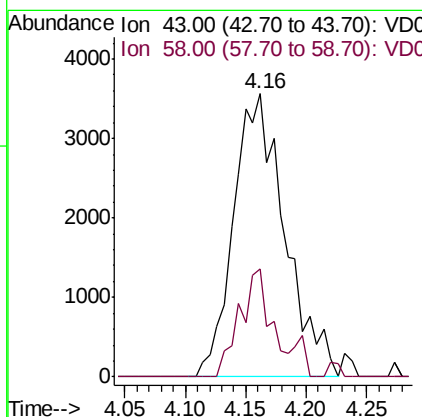
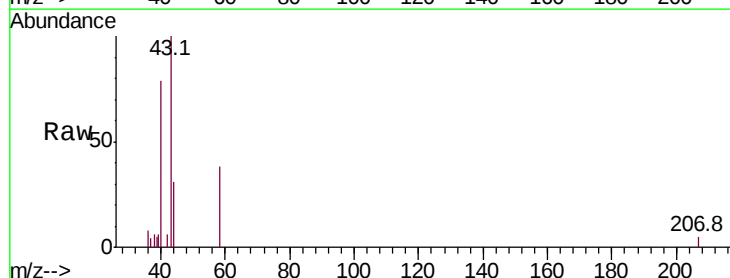
Tot Ion: 59 Resp: 105
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

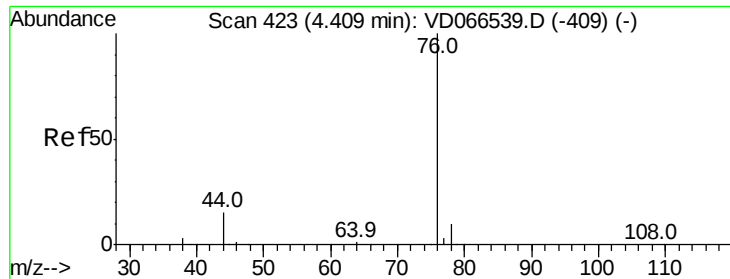


#16

Acetone
 Concen: 13.447 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VD066549.D
 Acq: 03 Sep 2020 22:18

Tgt Ion: 43 Resp: 10534
 Ion Ratio Lower Upper
 43 100
 58 38.0 22.9 34.3#





#17

Carbon Disulfide

Concen: 1.900 ug/l

RT: 4.41 min Scan# 424

Delta R.T. 0.01 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampleId :

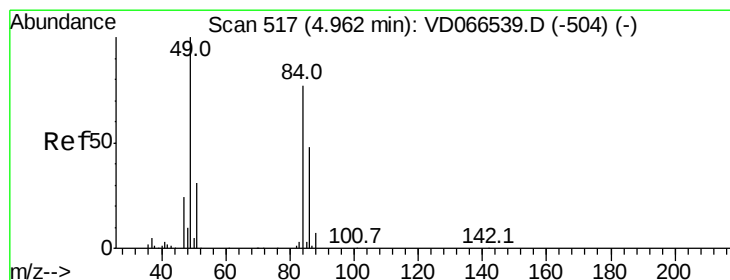
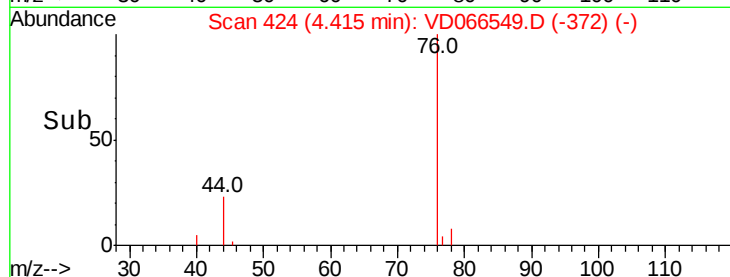
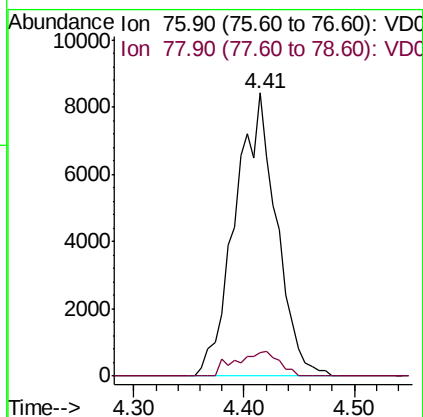
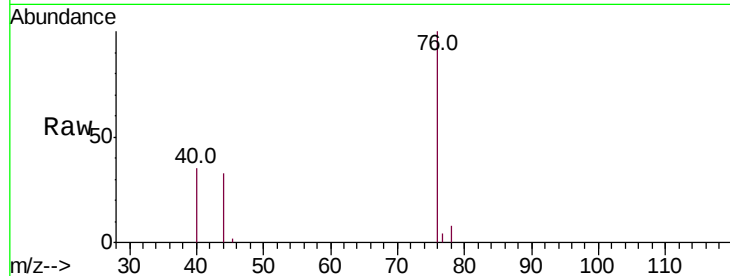
9-2-TP-2

Tot Ion: 76 Resp: 22143

Ion Ratio Lower Upper

76 100

78 8.3 7.6 11.4



#20

Methylene Chloride

Concen: 4.292 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Tgt Ion: 84 Resp: 44154

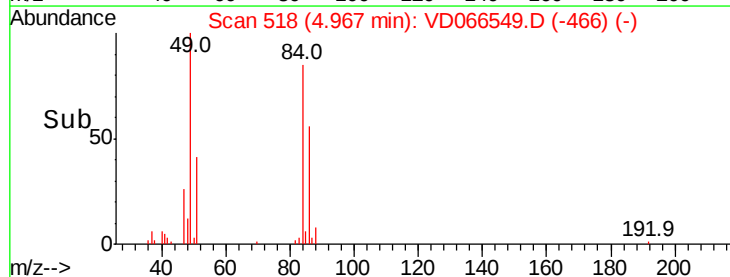
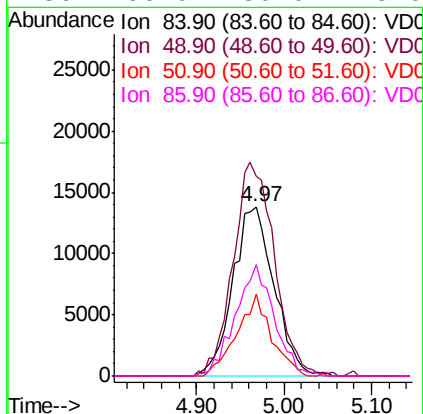
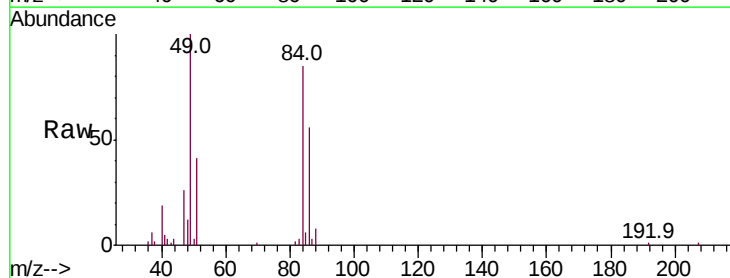
Ion Ratio Lower Upper

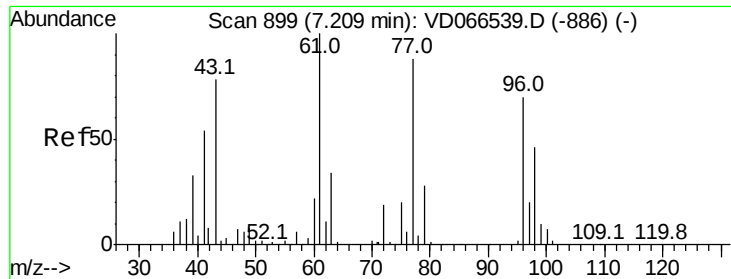
84 100

49 118.0 104.3 156.5

51 48.3 32.2 48.4

86 66.0 50.0 75.0

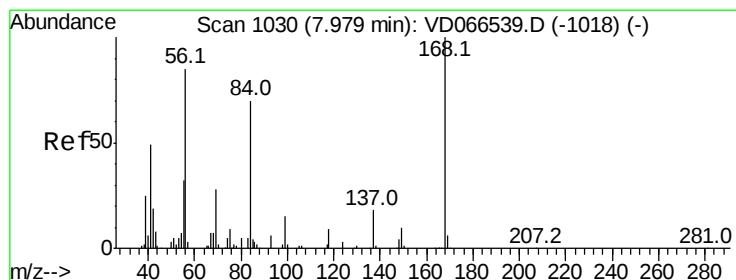
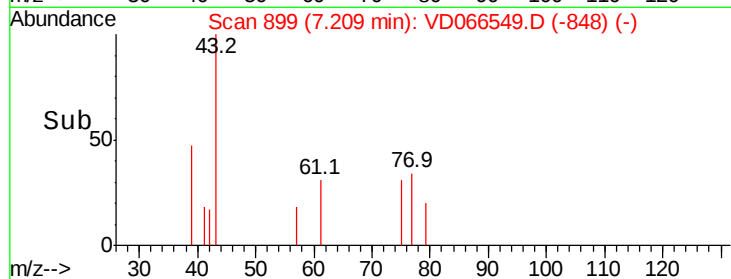
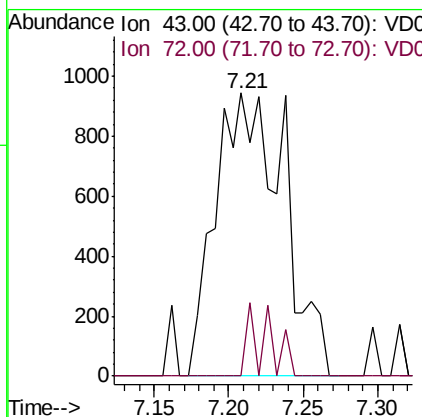
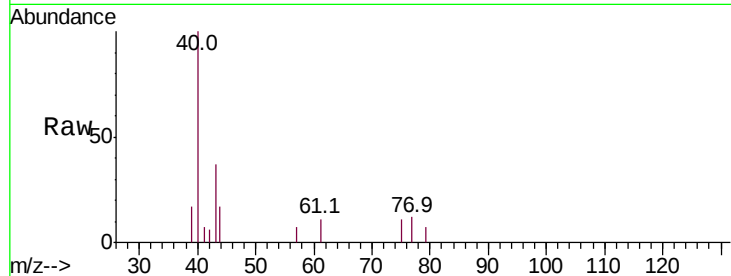




#25
2-Butanone
Concen: 2.860 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD066549.D
Acq: 03 Sep 2020 22:18

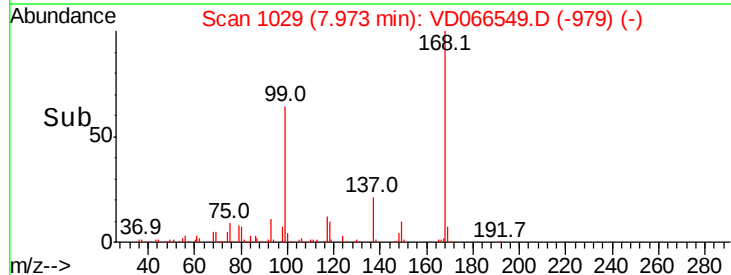
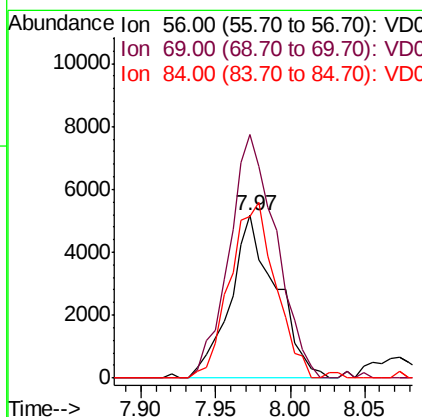
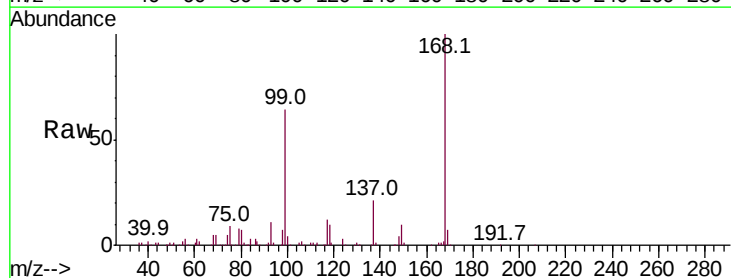
Instrument :
MSVOA_D
ClientSampled :
9-2-TP-2

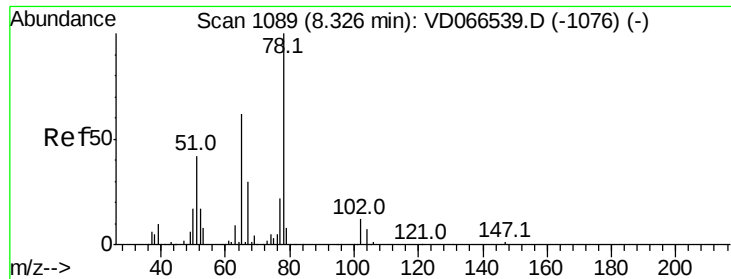
Tot Ion: 43 Resp: 3008
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#



#31
Cyclohexane
Concen: 1.587 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066549.D
Acq: 03 Sep 2020 22:18

Tgt Ion: 56 Resp: 11021
Ion Ratio Lower Upper
56 100
69 149.8 26.3 39.5#
84 99.3 66.1 99.1#





#33

1,2-Dichloroethane-d4

Concen: 55.425 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampleId :

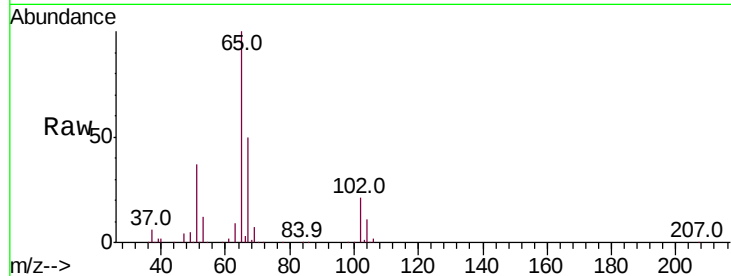
9-2-TP-2

Tot Ion: 65 Resp: 235969

Ion Ratio Lower Upper

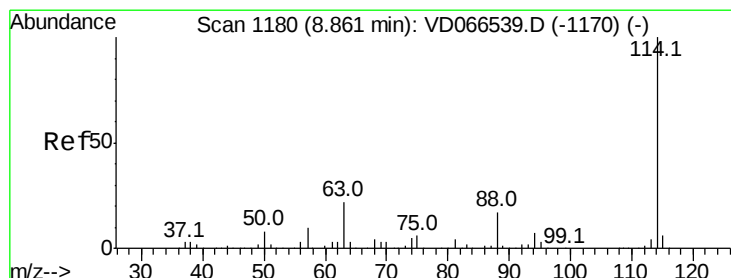
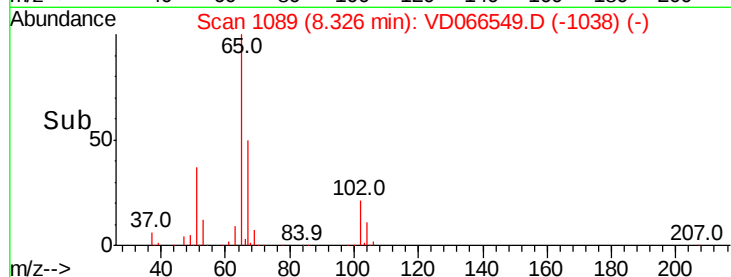
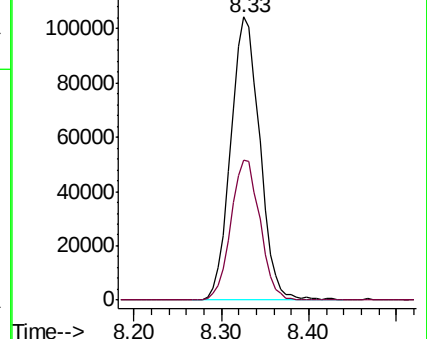
65 100

67 49.6 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

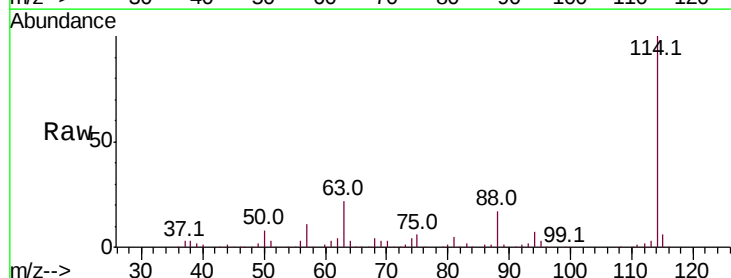
Tgt Ion: 114 Resp: 651001

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

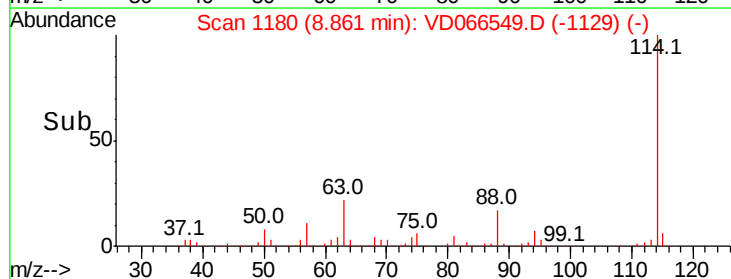
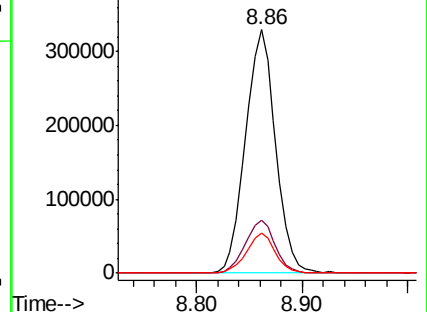
88 16.6 0.0 33.2

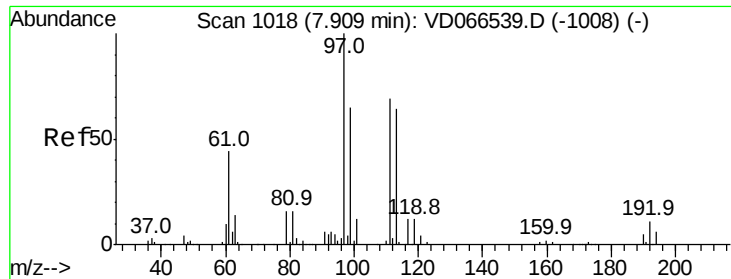


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

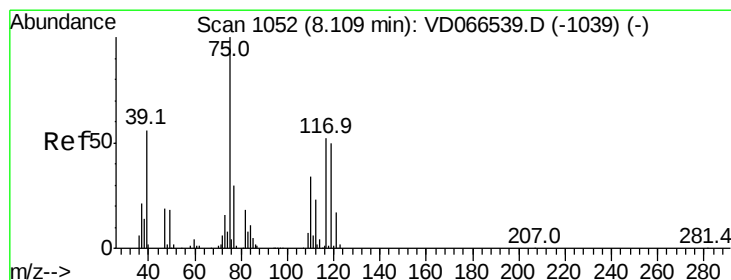
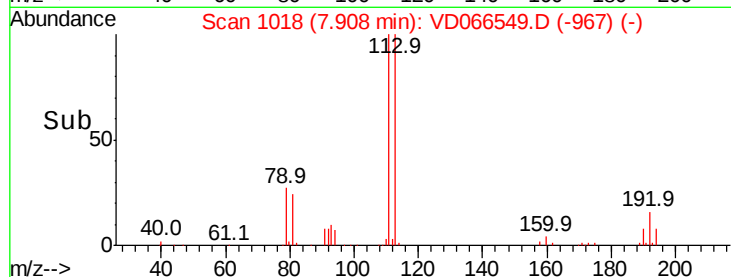
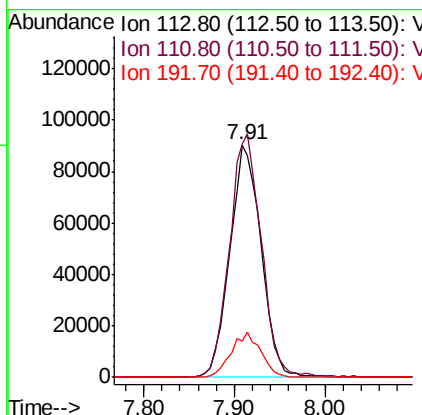
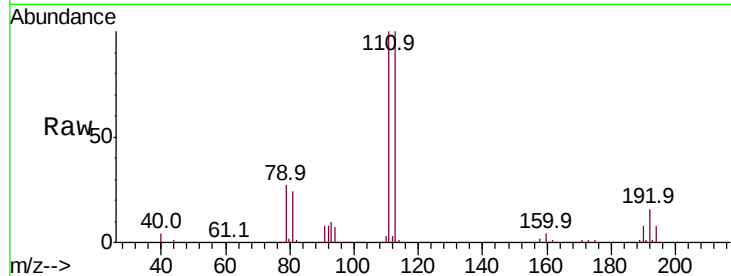




#35
 Dibromofluoromethane
 Concen: 49.471 ug/l
 RT: 7.91 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VD066549.D
 Acq: 03 Sep 2020 22:18

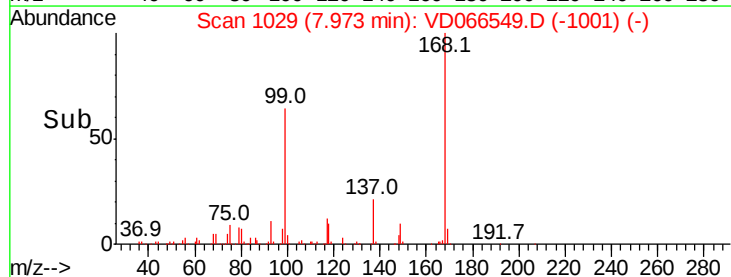
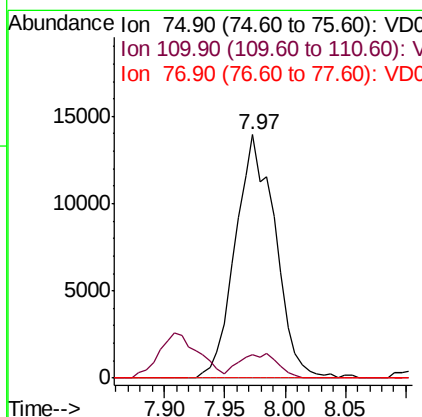
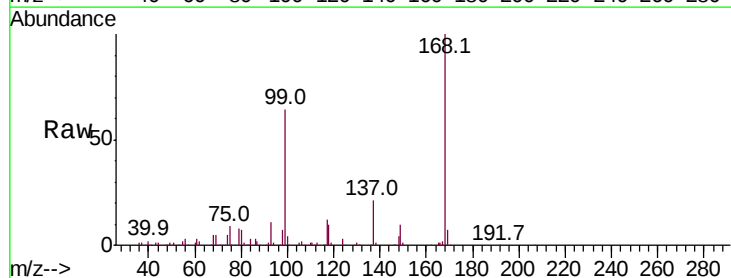
Instrument :
 MSVOA_D
 ClientSampleId :
 9-2-TP-2

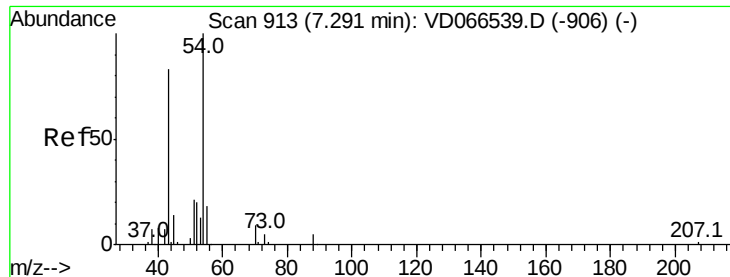
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.4	83.2	124.8
192	18.2	13.7	20.5



#36
 1,1-Dichloropropene
 Concen: 4.745 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD066549.D
 Acq: 03 Sep 2020 22:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	17.3	52.0#
77	0.0	25.1	37.7#





#37

Ethyl Acetate

Concen: 1.115 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.08 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampled :

9-2-TP-2

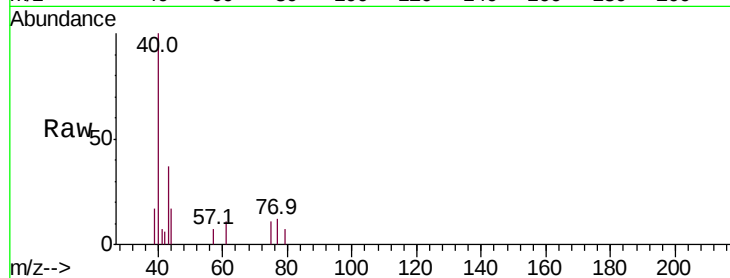
Tot Ion: 43 Resp: 3008

Ion Ratio Lower Upper

43 100

61 13.5 11.8 17.8

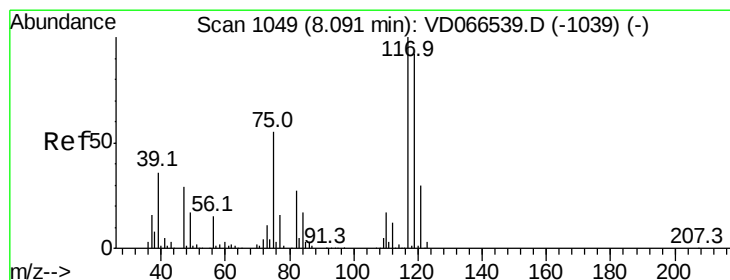
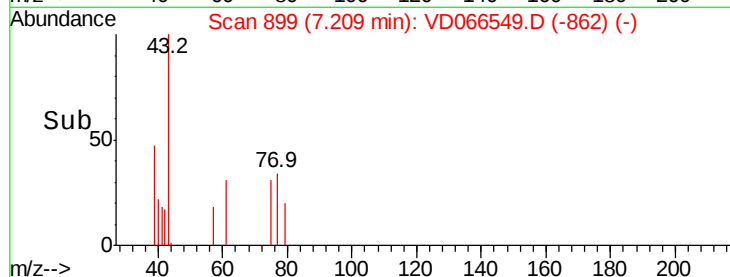
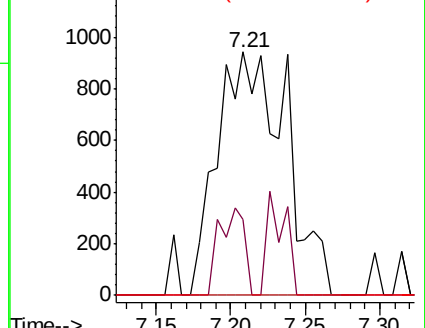
70 0.0 7.9 11.9#



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: 5.730 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

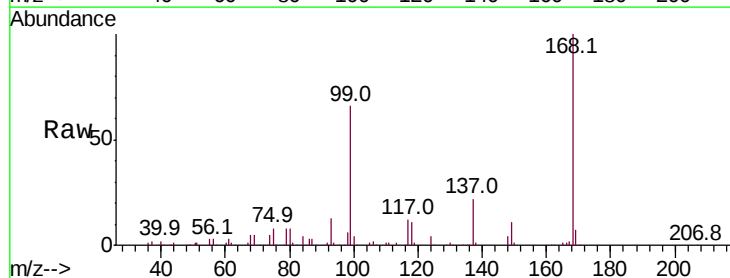
Tgt Ion: 117 Resp: 41035

Ion Ratio Lower Upper

117 100

119 4.7 73.9 110.9#

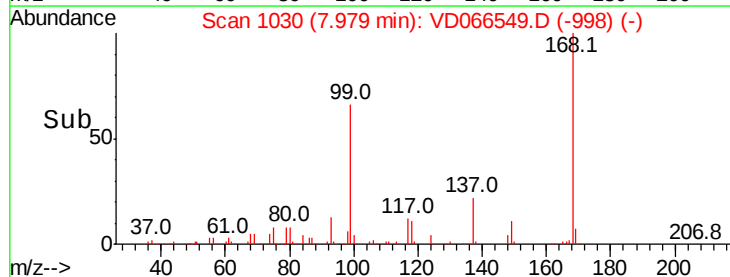
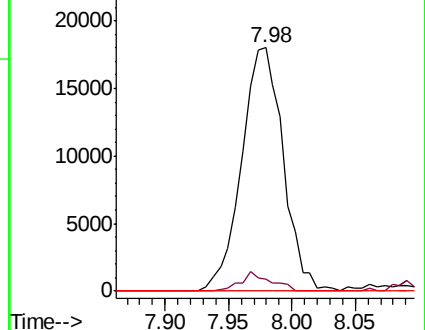
121 0.0 24.1 36.1#

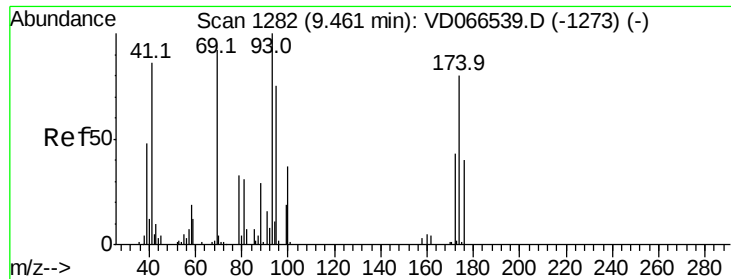


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 2.337 ug/l

RT: 9.63 min Scan# 1310

Delta R.T. 0.16 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampleId :

9-2-TP-2

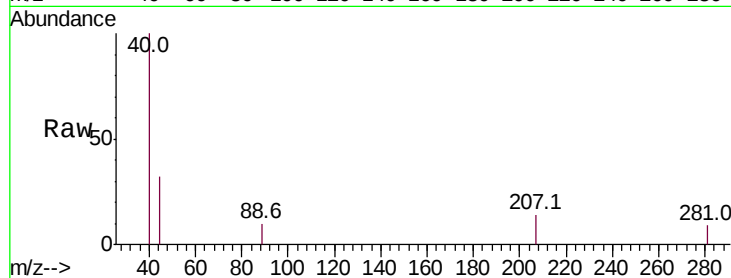
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 0.0 28.3 42.5#

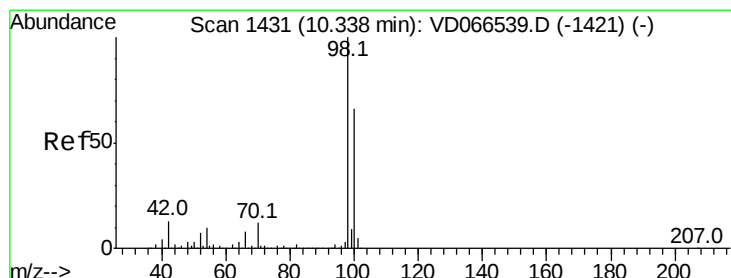
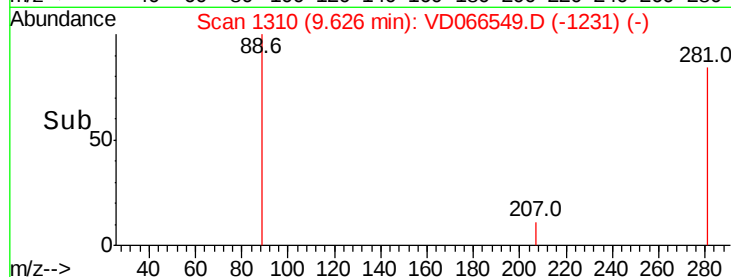
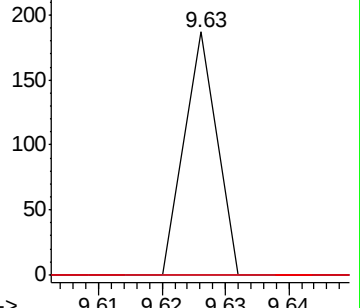
58 0.0 56.1 84.1#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 51.687 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066549.D

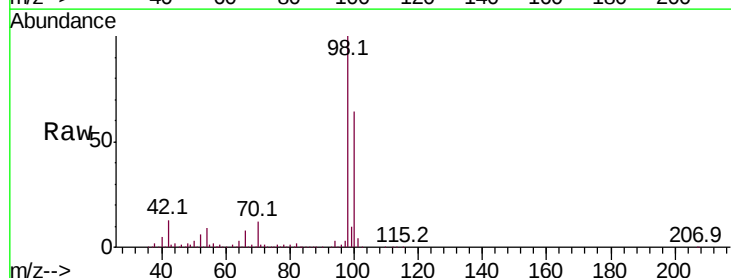
Acq: 03 Sep 2020 22:18

Tgt Ion: 98 Resp: 811316

Ion Ratio Lower Upper

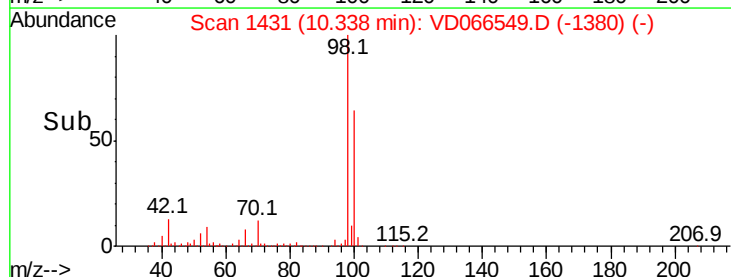
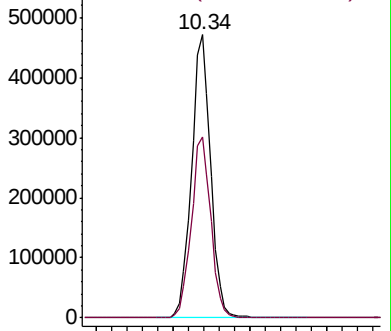
98 100

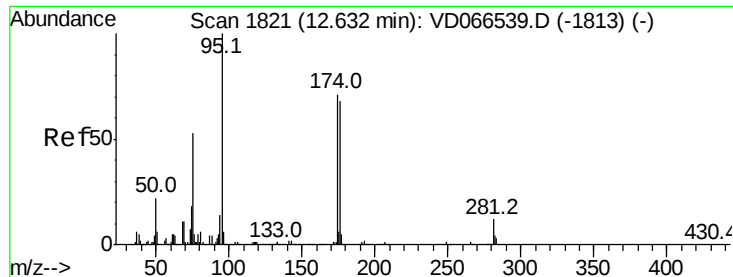
100 65.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 48.109 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampleId :

9-2-TP-2

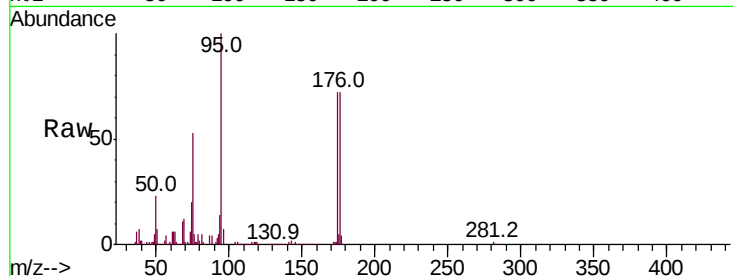
Tot Ion: 95 Resp: 250399

Ion Ratio Lower Upper

95 100

174 76.7 0.0 155.8

176 73.8 0.0 148.6



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

12.63

150000

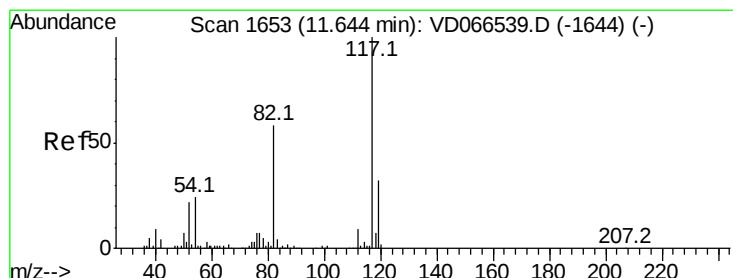
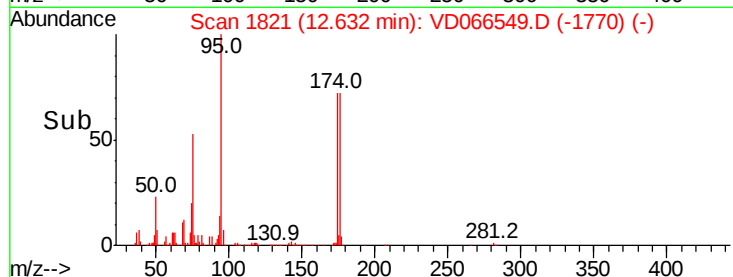
100000

50000

0

12.60 12.70

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

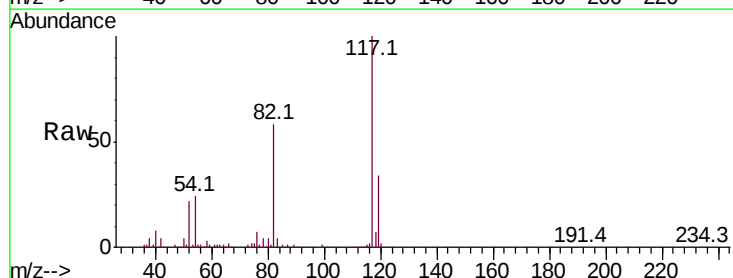
Tgt Ion: 117 Resp: 588139

Ion Ratio Lower Upper

117 100

82 58.0 46.2 69.2

119 34.4 25.8 38.8



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

11.64

400000

300000

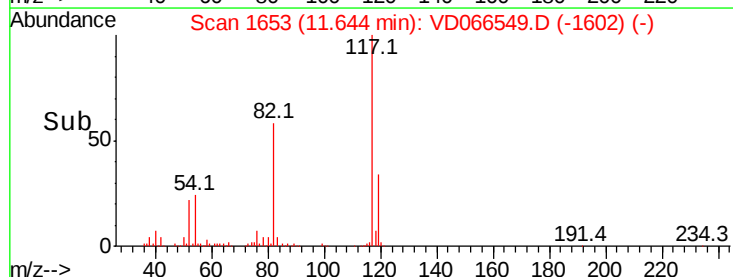
200000

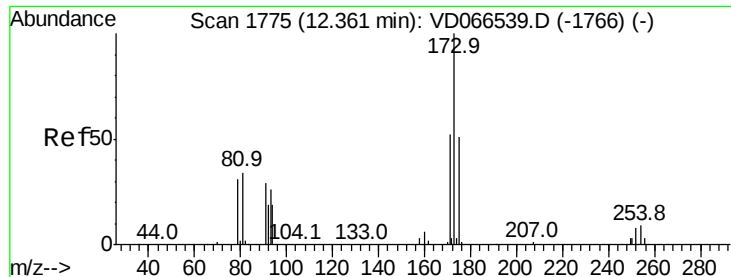
100000

0

11.60 11.70

Time-->





#71

Bromoform

Concen: 1.378 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD066549.D

Acq: 03 Sep 2020 22:18

Instrument :

MSVOA_D

ClientSampleId :

9-2-TP-2

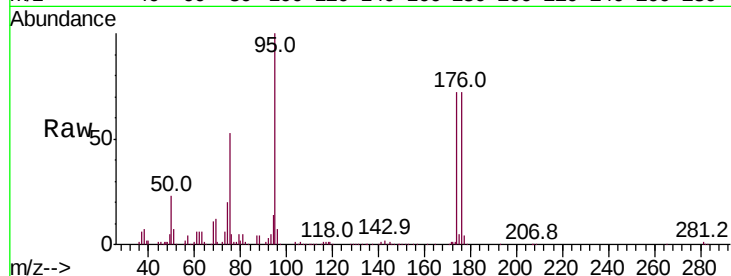
Tot Ion:173 Resp: 3217

Ion Ratio Lower Upper

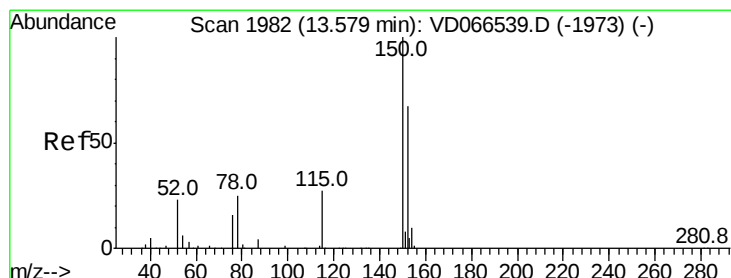
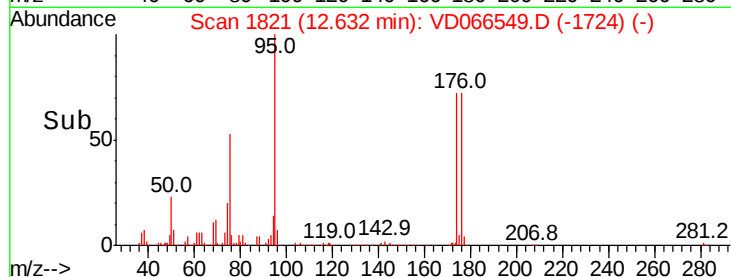
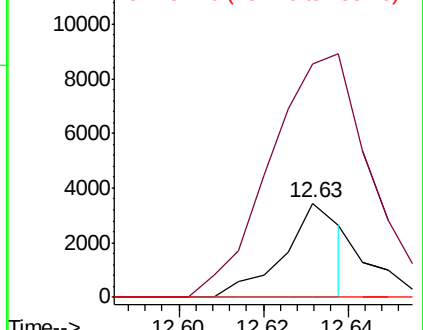
173 100

175 0.0 24.2 72.6#

254 0.0 0.0 0.0



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: VD066549.D

Acq: 03 Sep 2020 22:18

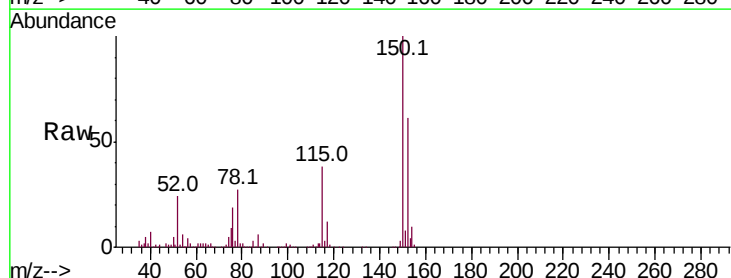
Tgt Ion:152 Resp: 248207

Ion Ratio Lower Upper

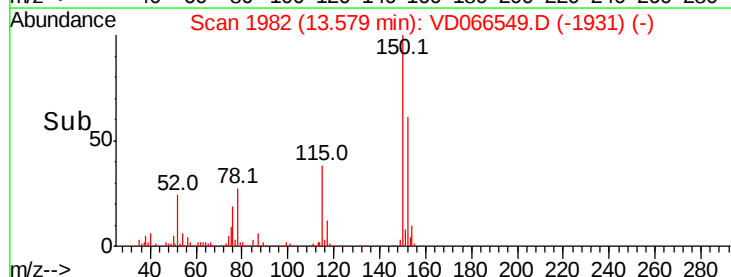
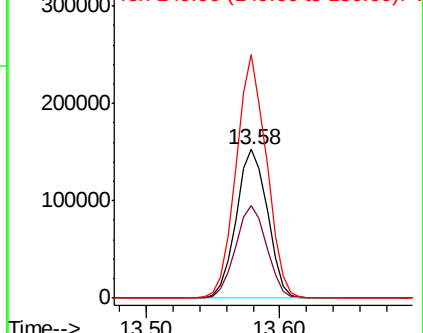
152 100

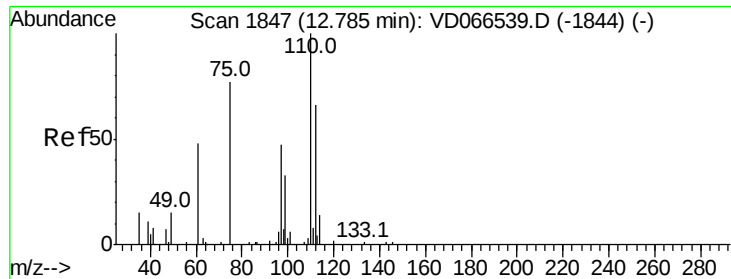
115 62.1 30.4 91.2

150 158.7 0.0 345.8



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

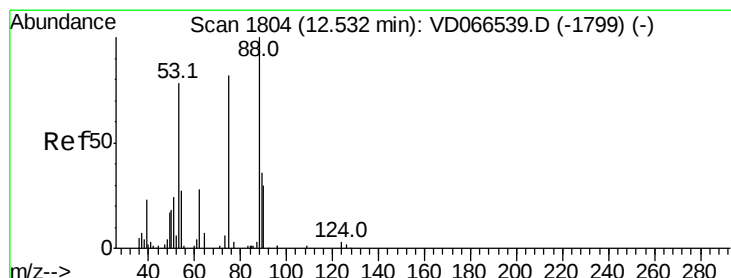
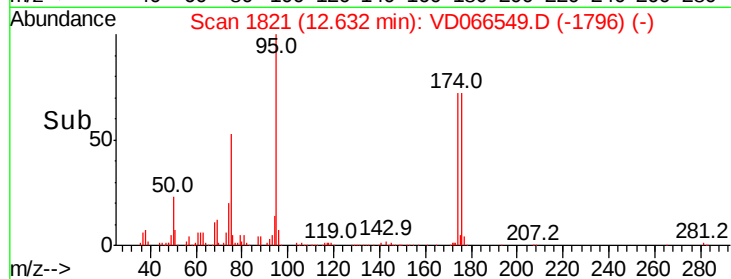
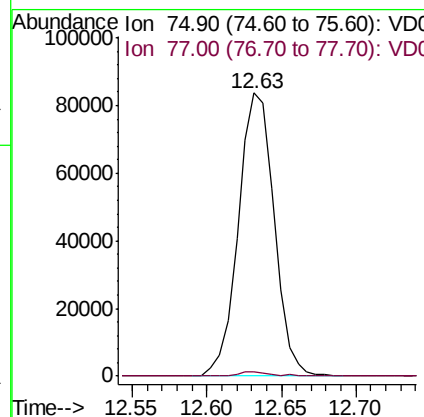
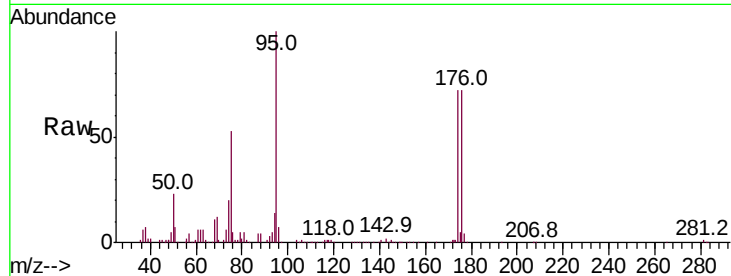




#76
 1,2,3-Trichloropropane
 Concen: 58.474 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066549.D
 Acq: 03 Sep 2020 22:18

Instrument :
 MSVOA_D
 ClientSampleId :
 9-2-TP-2

Tot Ion: 75 Resp: 139582
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 136.516 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD066549.D
 Acq: 03 Sep 2020 22:18

Tgt Ion: 75 Resp: 139582
 Ion Ratio Lower Upper
 75 100
 53 0.2 87.0 130.4#
 89 0.0 37.1 55.7#

