

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090420\
 Data File : VD066562.D
 Acq On : 04 Sep 2020 14:50
 Operator : VA/SY
 Sample : L3877-11
 Misc : 5.77G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3

Quant Time: Sep 05 03:47:11 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	386519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	706105	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	652921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	271295	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	254413	54.40	ug/l	0.00
Spiked Amount			Recovery	=	108.80%	
35) Dibromofluoromethane	7.91	113	239314	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
50) Toluene-d8	10.34	98	876617	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
62) 4-Bromofluorobenzene	12.63	95	290325	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	

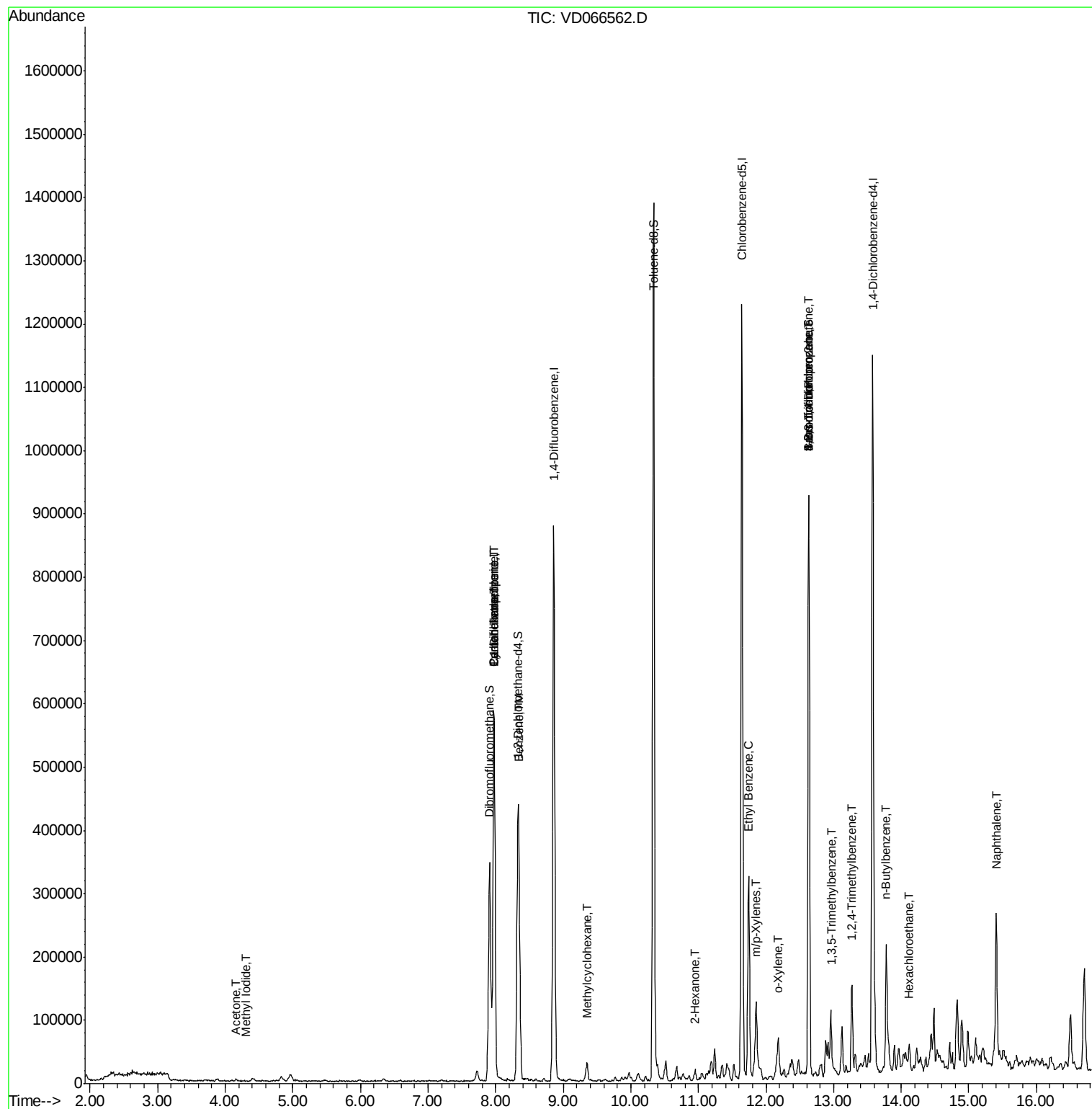
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	446	Below Cal	#	46
5) Bromomethane	2.78	94	977	Below Cal	#	70
10) Methyl Iodide	4.31	142	416	4.120	ug/l #	35
11) Tert butyl alcohol	5.18	59	54	Below Cal	#	74
16) Acetone	4.15	43	4231	4.917	ug/l	92
20) Methylene Chloride	4.96	84	4549	Below Cal	#	79
31) Cyclohexane	7.97	56	13343	1.749	ug/l #	35
36) 1,1-Dichloropropene	7.98	75	38620	5.256	ug/l #	50
38) Carbon Tetrachloride	7.97	117	45194	5.819	ug/l #	18
39) Methylcyclohexane	9.36	83	9748	1.188	ug/l	91
40) Benzene	8.34	78	230067	11.431	ug/l	98
59) 2-Hexanone	10.95	43	6755	3.552	ug/l #	28
67) Ethyl Benzene	11.74	91	214664	8.675	ug/l	99
68) m/p-Xylenes	11.86	106	34978	3.807	ug/l	98
69) o-Xylene	12.18	106	12554	1.525	ug/l	86
71) Bromoform	12.63	173	3511	1.355	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	165502	63.432	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	38346	2.268	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.63	75	165502	148.091	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.27	105	74413	4.421	ug/l	99
89) n-Butylbenzene	13.78	91	24783	1.421	ug/l #	50
90) Hexachloroethane	14.12	117	3992	1.035	ug/l #	18
95) Naphthalene	15.41	128	210369	25.814	ug/l	99

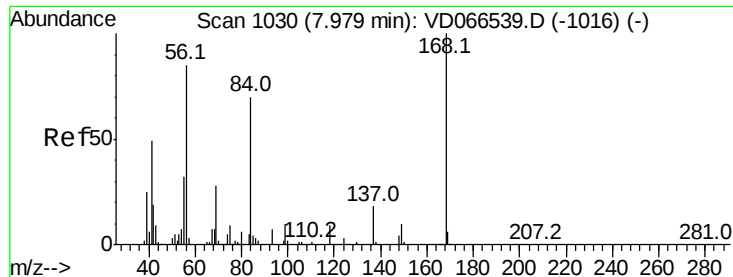
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

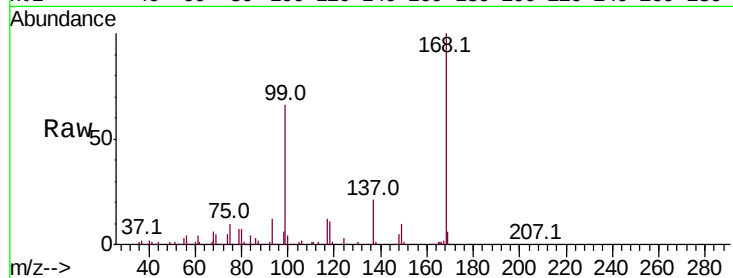
TP-3

Tot Ion:168 Resp: 386519

Ion Ratio Lower Upper

168 100

99 66.3 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

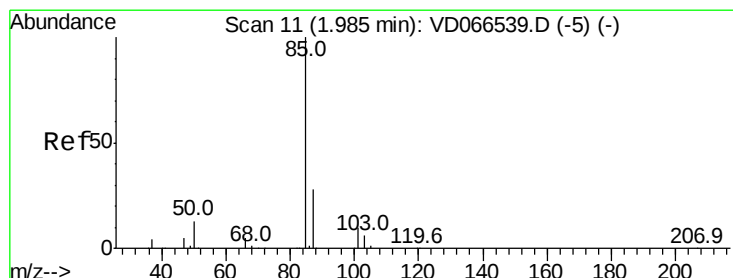
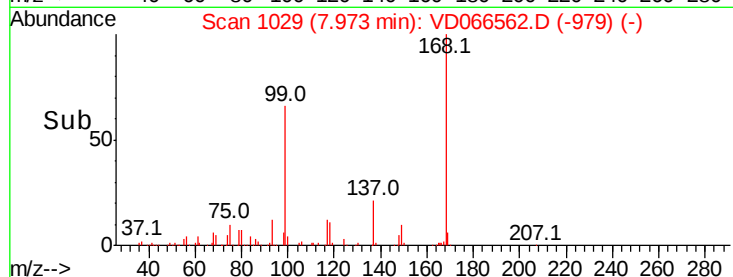
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066562.D

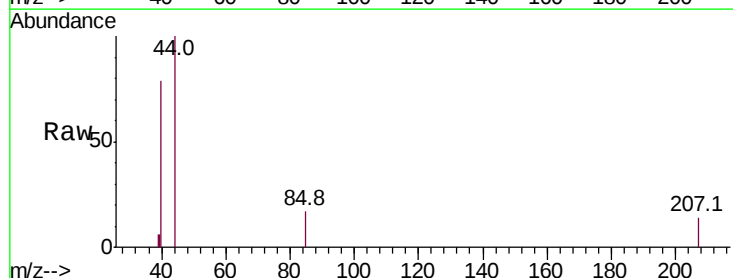
Acq: 04 Sep 2020 14:50

Tgt Ion: 85 Resp: 446

Ion Ratio Lower Upper

85 100

87 0.0 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

500

400

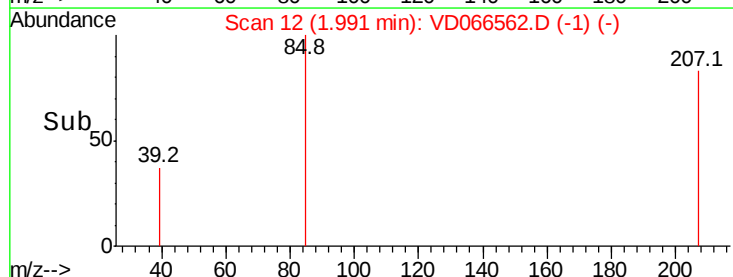
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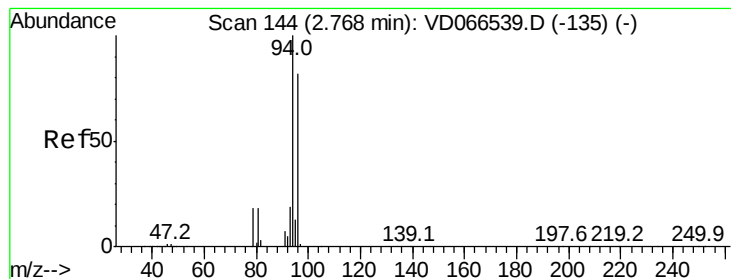
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampled :

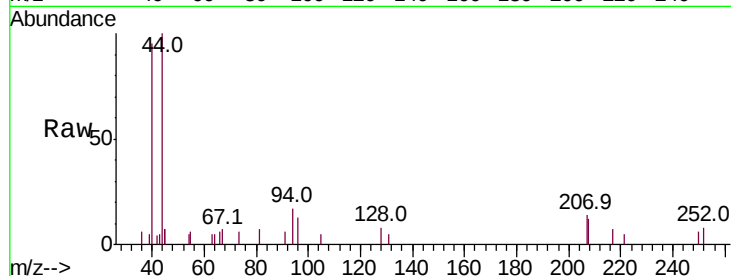
TP-3

Tot Ion: 94 Resp: 977

Ion Ratio Lower Upper

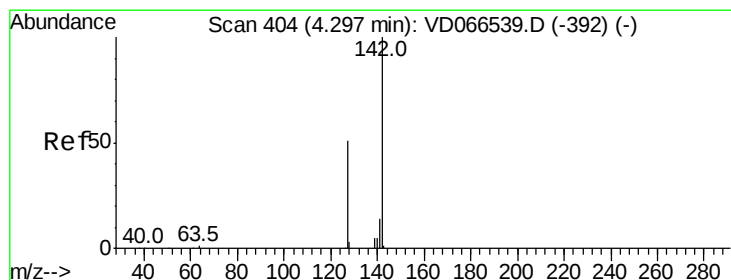
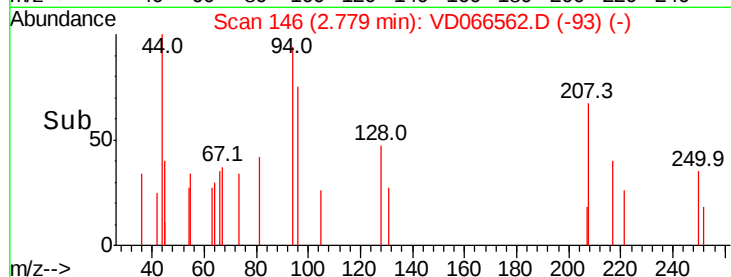
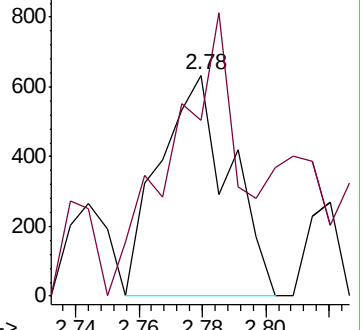
94 100

96 54.7 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: 4.120 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.01 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

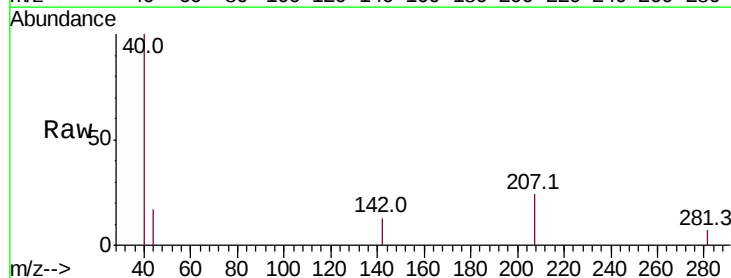
Tgt Ion: 142 Resp: 416

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

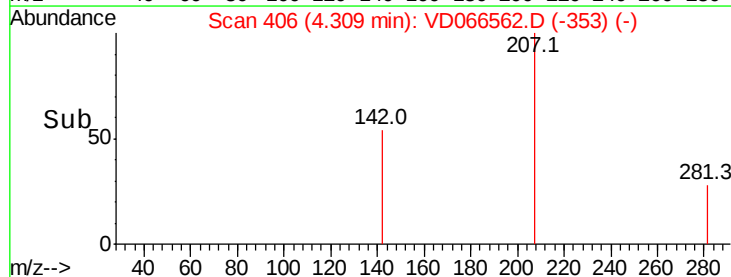
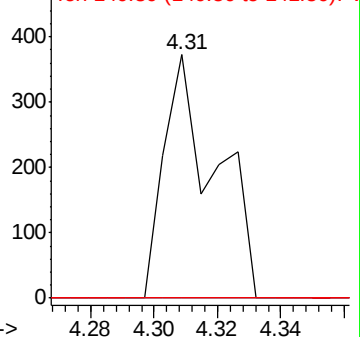
141 0.0 12.2 18.4#

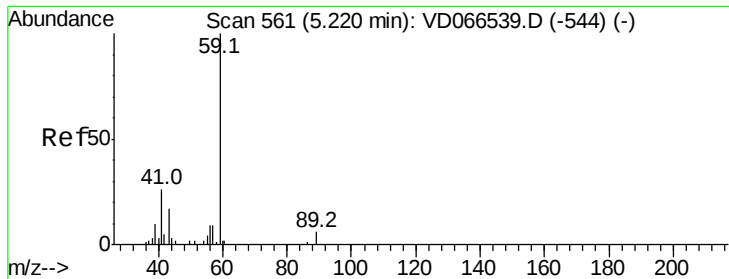


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



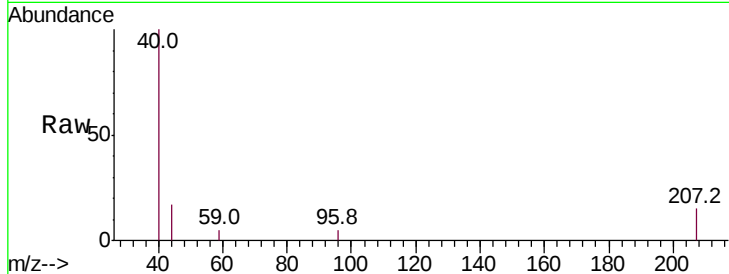


#11

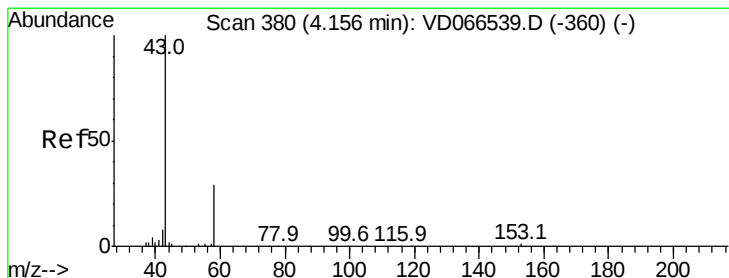
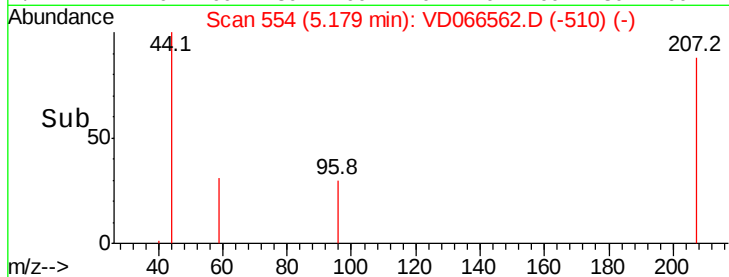
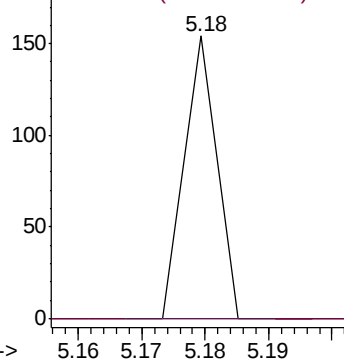
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 554
 Delta R.T. -0.04 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

Instrument :
 MSVOA_D
 ClientSampled :
 TP-3

Tot Ion: 59 Resp: 54
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#



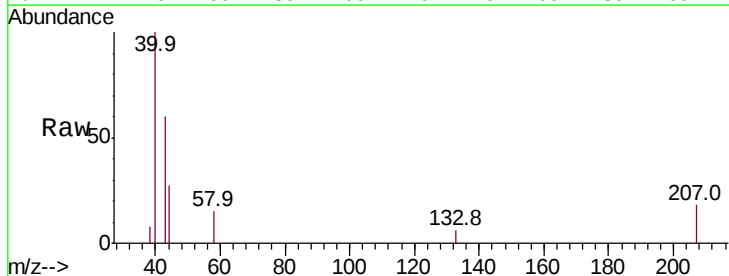
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



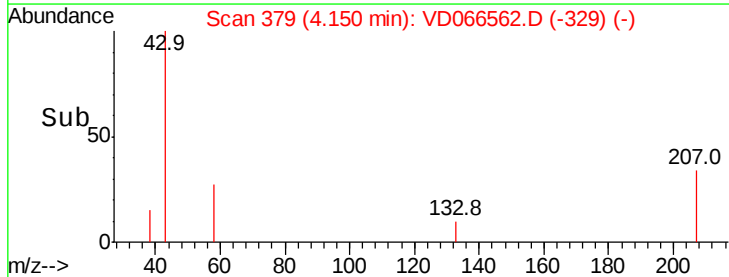
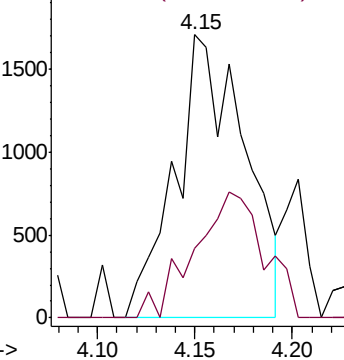
#16

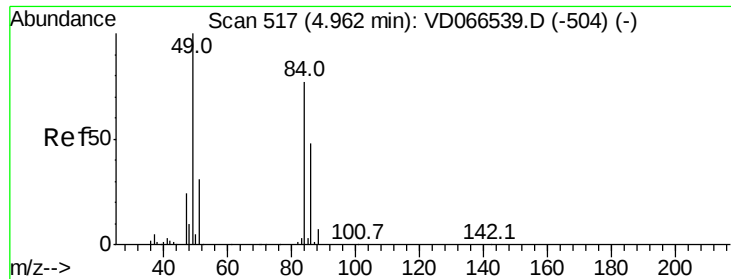
Acetone
 Concen: 4.917 ug/l
 RT: 4.15 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

Tgt Ion: 43 Resp: 4231
 Ion Ratio Lower Upper
 43 100
 58 24.5 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

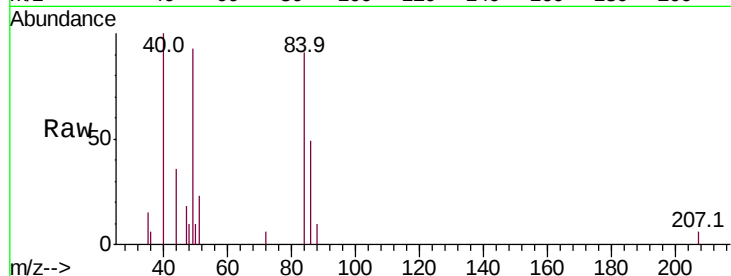




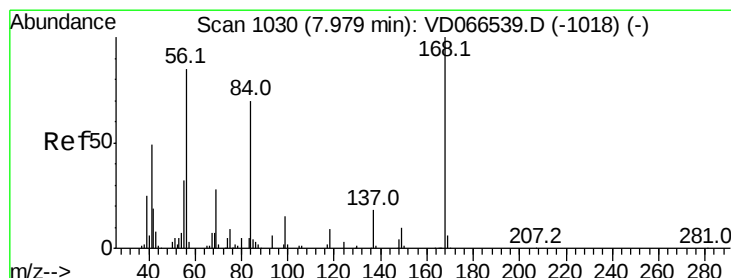
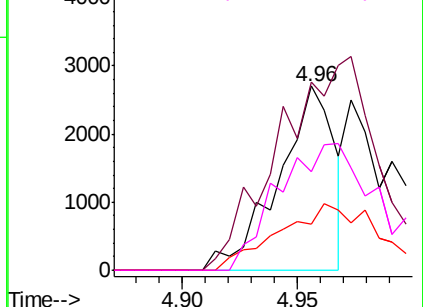
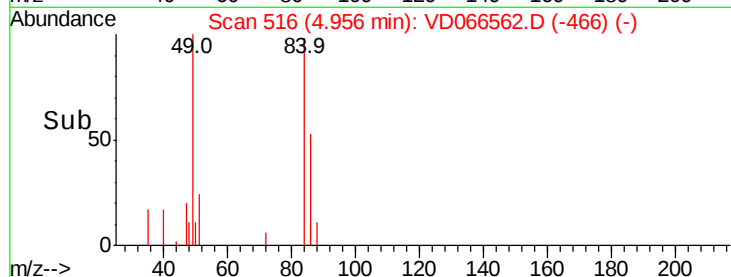
#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD066562.D
Acq: 04 Sep 2020 14:50

Instrument :
MSVOA_D
ClientSampled :
TP-3

Tot Ion: 84 Resp: 4549
Ion Ratio Lower Upper
84 100
49 102.5 104.3 156.5#
51 25.1 32.2 48.4#
86 54.0 50.0 75.0

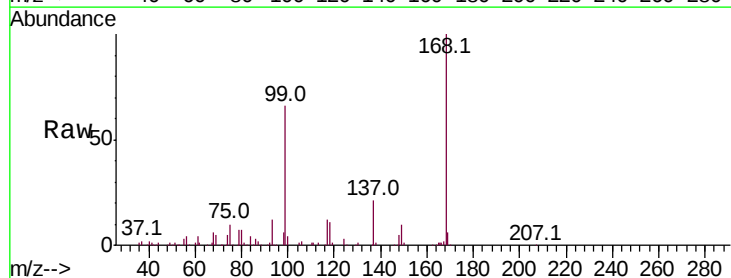


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

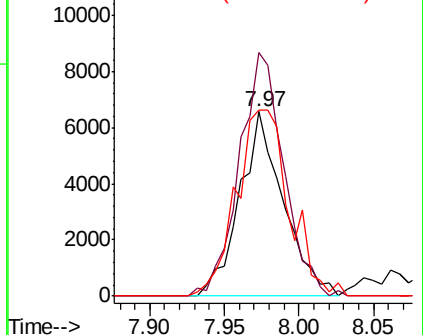
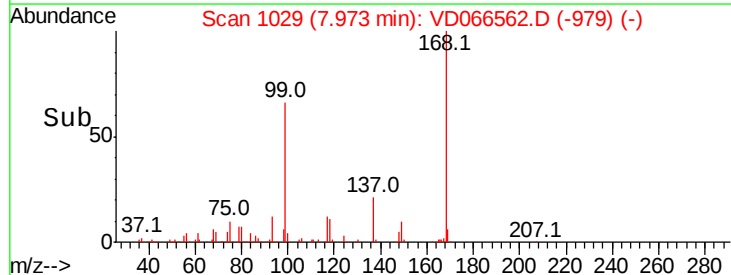


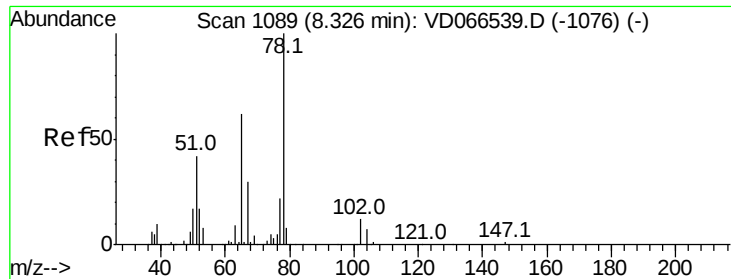
#31
Cyclohexane
Concen: 1.749 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066562.D
Acq: 04 Sep 2020 14:50

Tgt Ion: 56 Resp: 13343
Ion Ratio Lower Upper
56 100
69 132.2 26.3 39.5#
84 100.9 66.1 99.1#



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

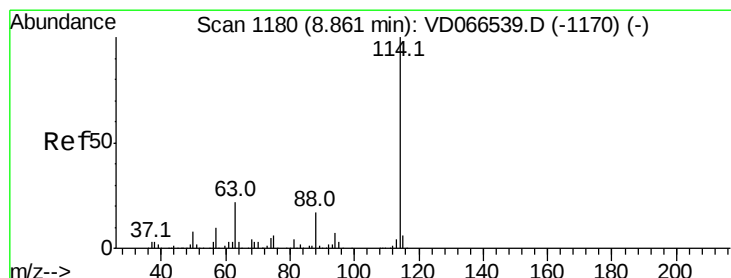
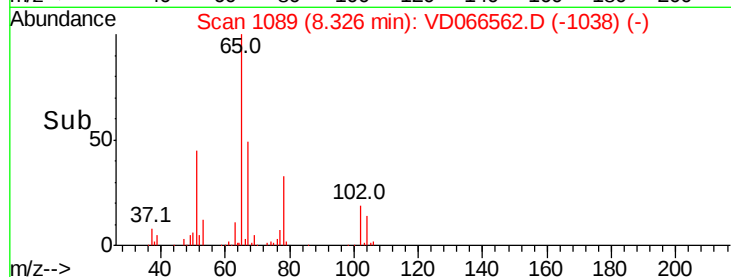
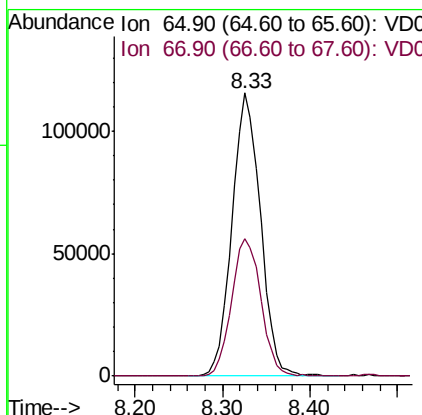
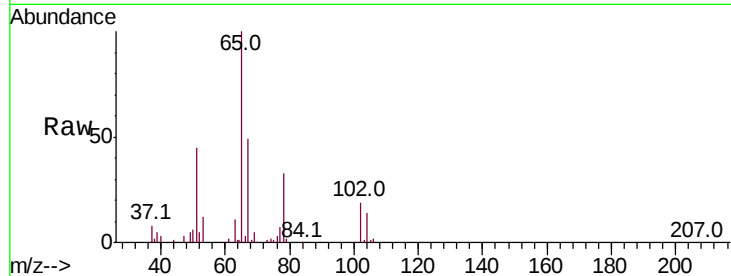




#33
 1,2-Dichloroethane-d4
 Concen: 54.402 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

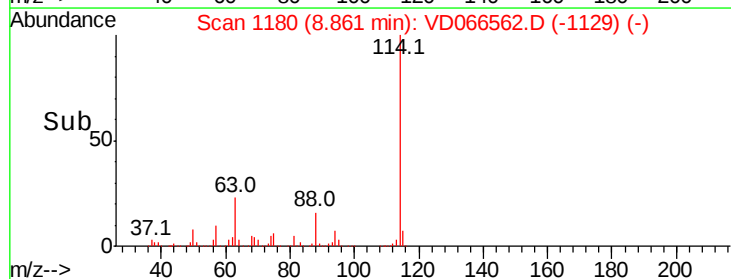
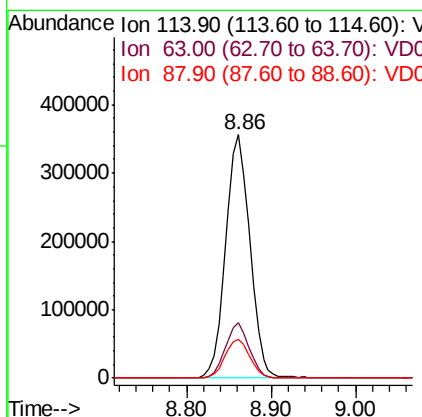
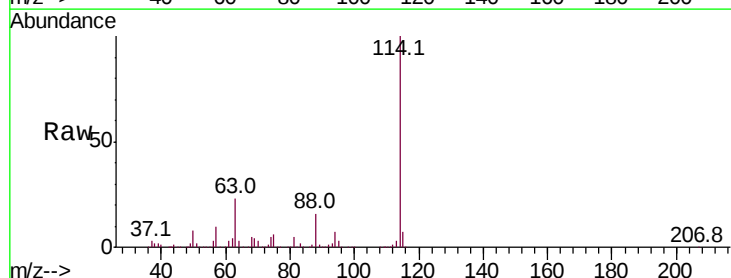
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3

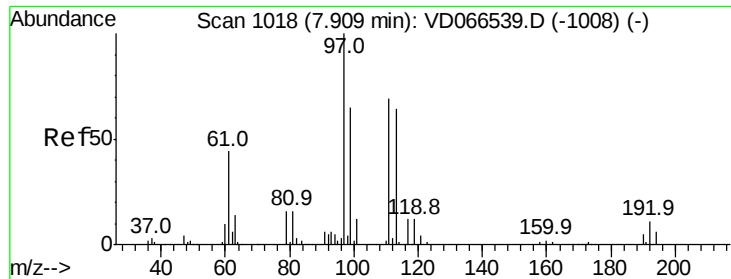
Tot Ion: 65 Resp: 254413
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

Tgt Ion:114 Resp: 706105
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 43.2
 88 16.0 0.0 33.2

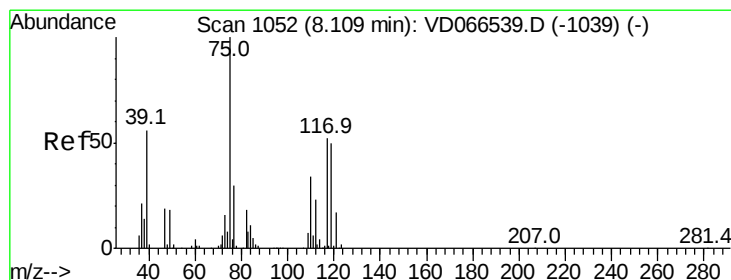
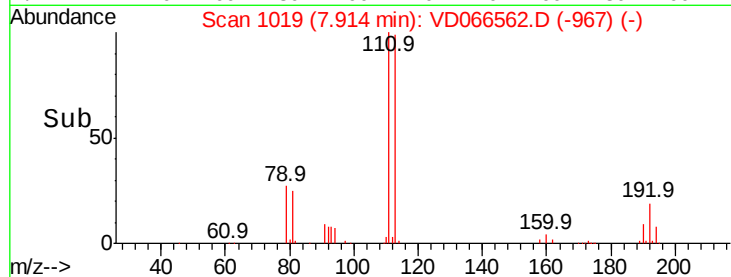
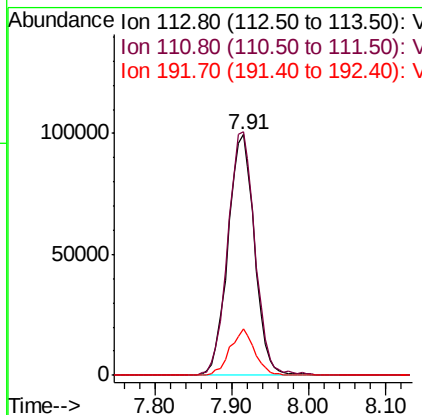
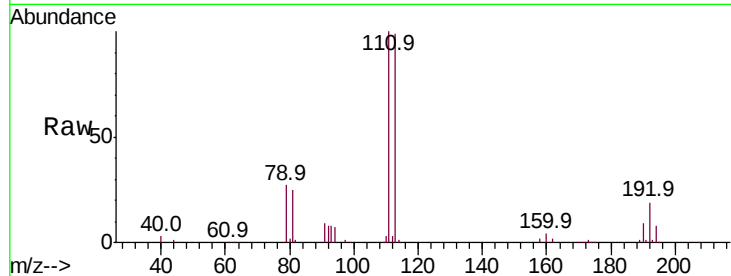




#35
 Dibromofluoromethane
 Concen: 50.240 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

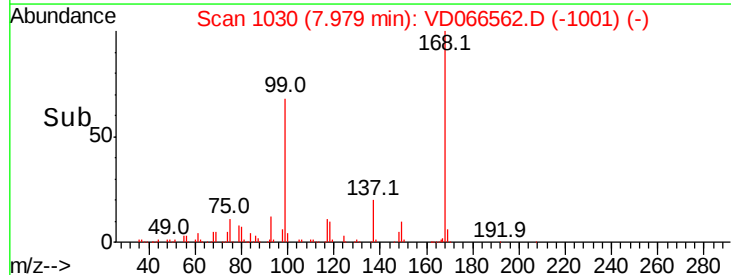
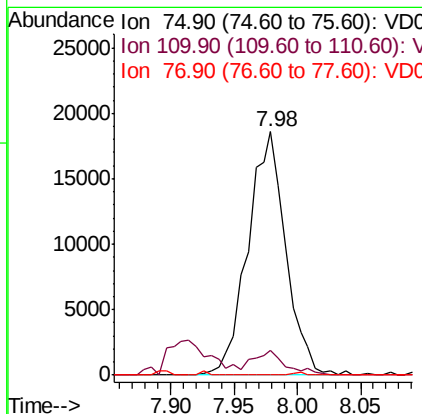
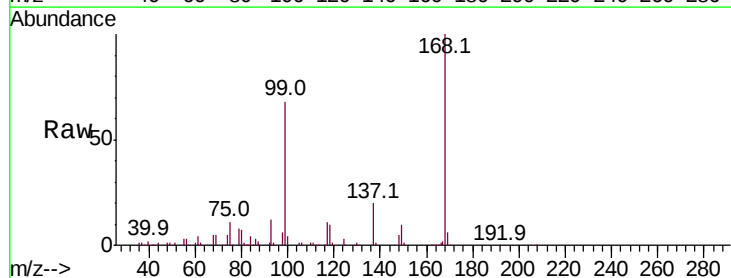
Instrument :
 MSVOA_D
 ClientSampled :
 TP-3

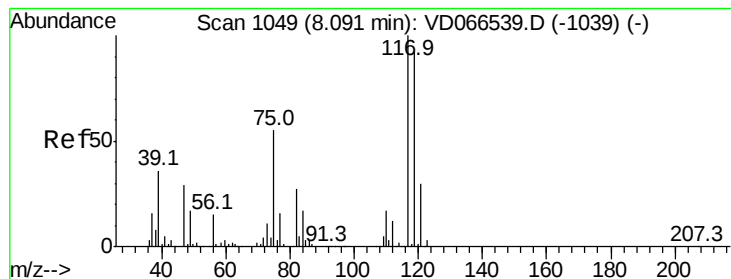
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	83.2	124.8
192	17.9	13.7	20.5



#36
 1,1-Dichloropropene
 Concen: 5.256 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.3	52.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.819 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampled :

TP-3

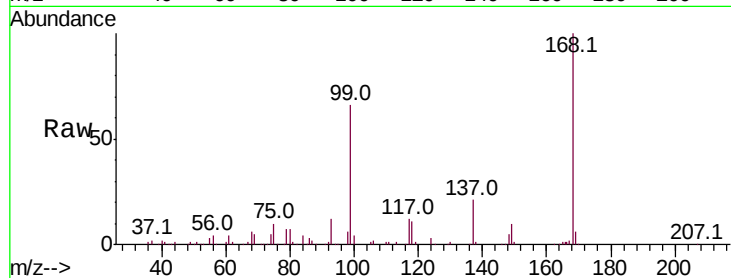
Tot Ion:117 Resp: 45194

Ion Ratio Lower Upper

117 100

119 6.0 73.9 110.9#

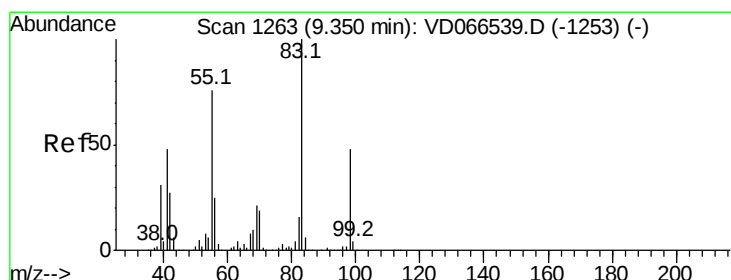
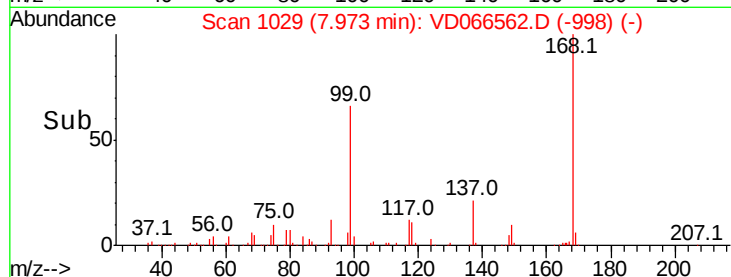
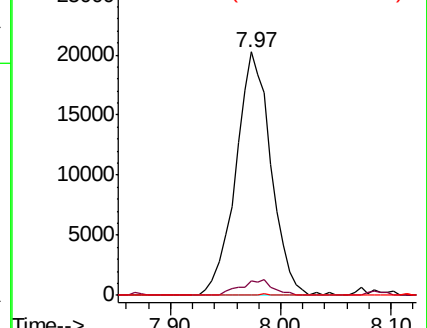
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 1.188 ug/l

RT: 9.36 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

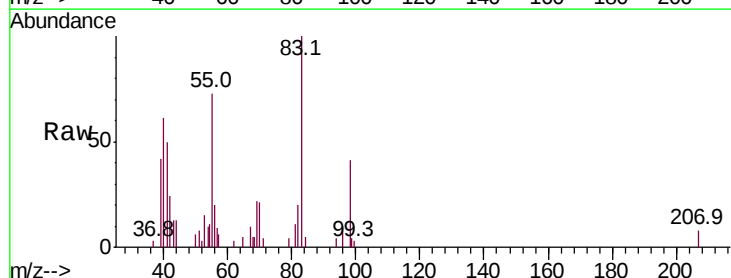
Tgt Ion: 83 Resp: 9748

Ion Ratio Lower Upper

83 100

55 70.0 60.8 91.2

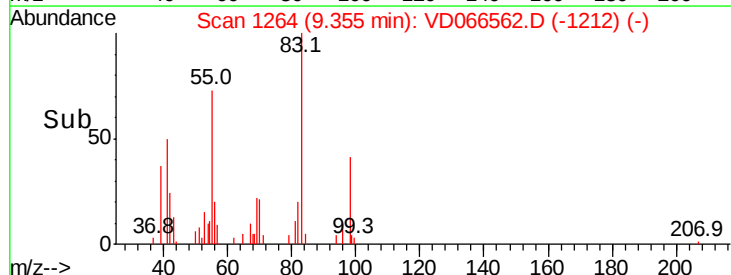
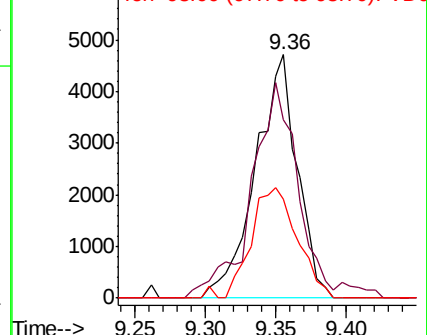
98 40.6 38.6 58.0

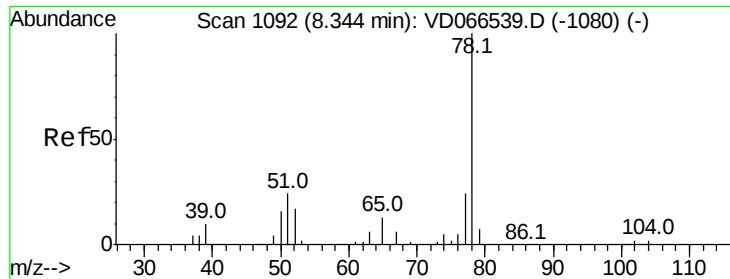


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 11.431 ug/l

RT: 8.34 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

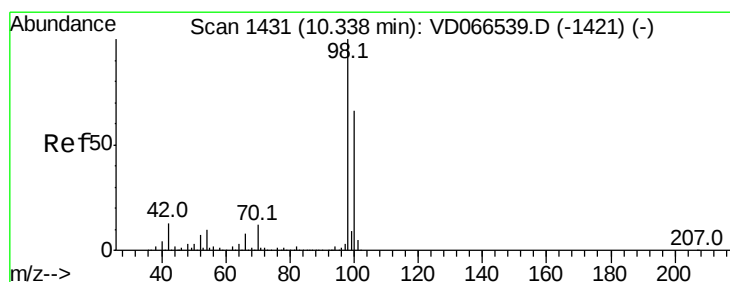
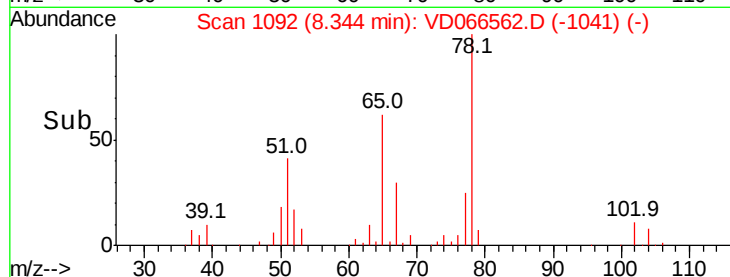
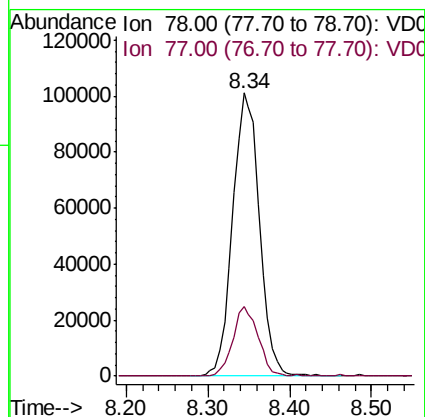
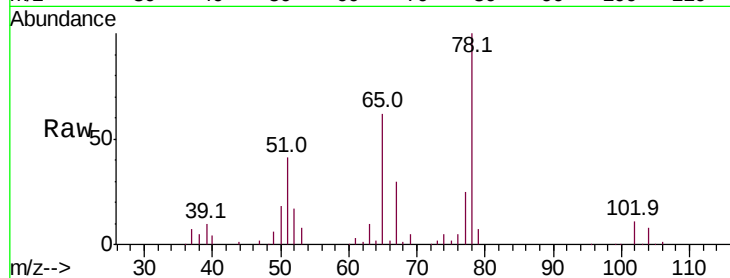
TP-3

Tot Ion: 78 Resp: 230067

Ion Ratio Lower Upper

78 100

77 24.8 19.1 28.7



#50

Toluene-d8

Concen: 51.489 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066562.D

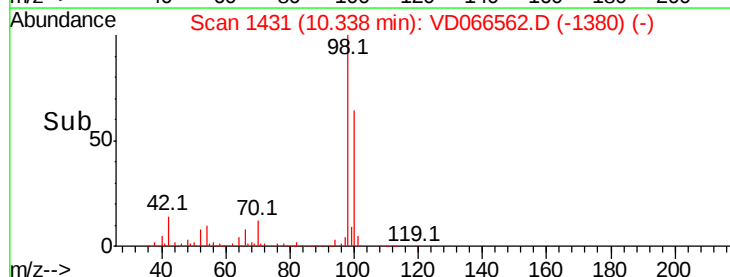
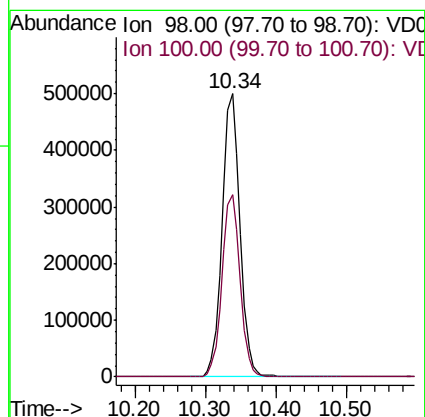
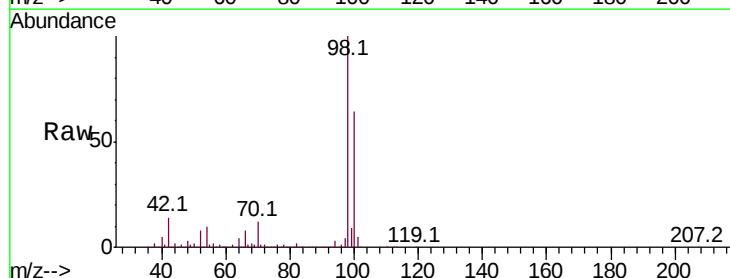
Acq: 04 Sep 2020 14:50

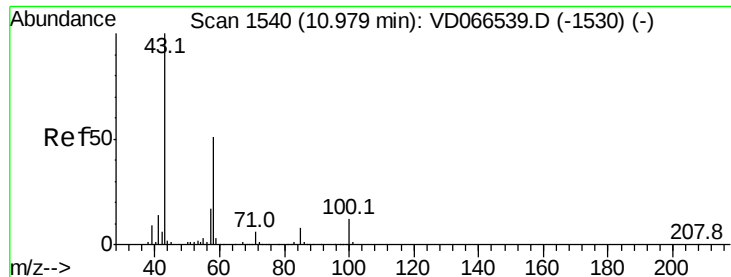
Tgt Ion: 98 Resp: 876617

Ion Ratio Lower Upper

98 100

100 64.9 52.9 79.3





#59

2-Hexanone

Concen: 3.552 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.03 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

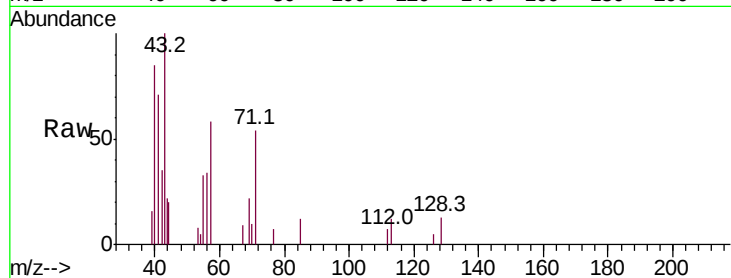
TP-3

Tot Ion: 43 Resp: 6755

Ion Ratio Lower Upper

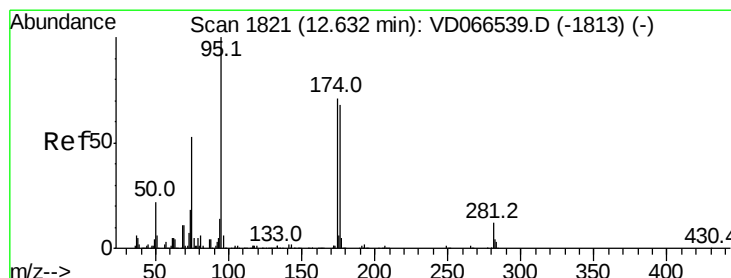
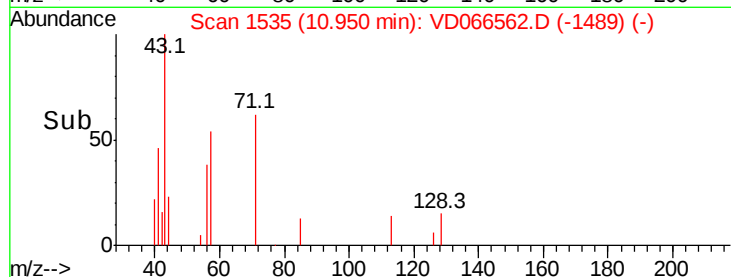
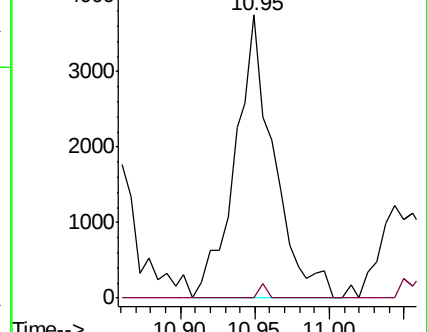
43 100

58 1.0 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 51.427 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

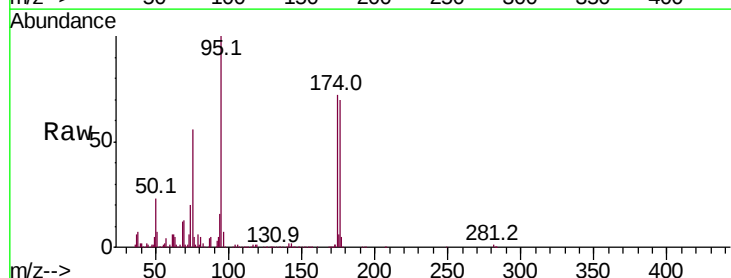
Tgt Ion: 95 Resp: 290325

Ion Ratio Lower Upper

95 100

174 74.7 0.0 155.8

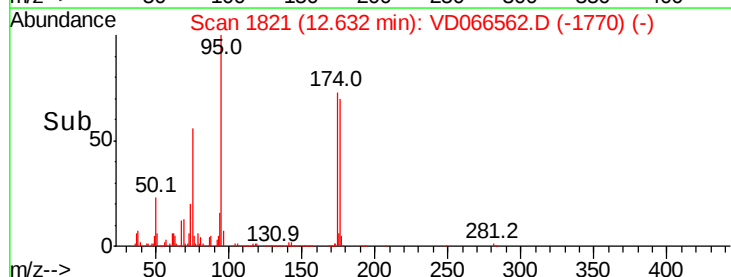
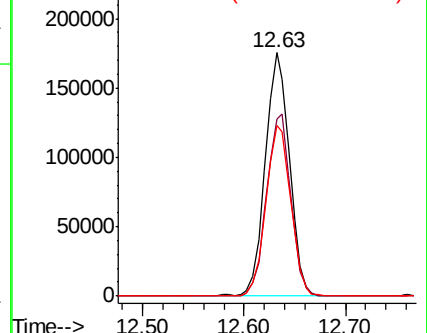
176 71.7 0.0 148.6

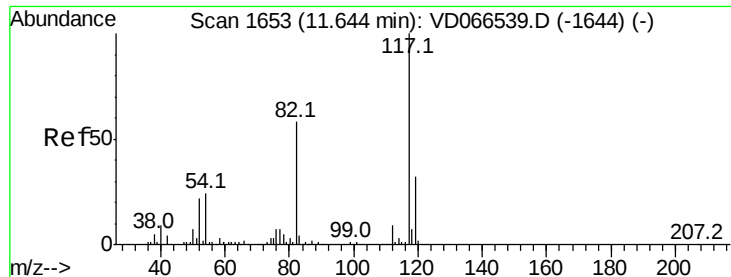


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

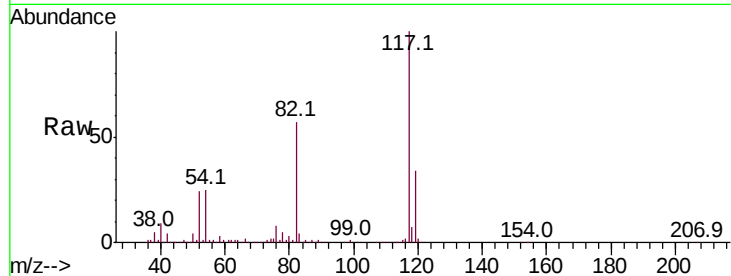




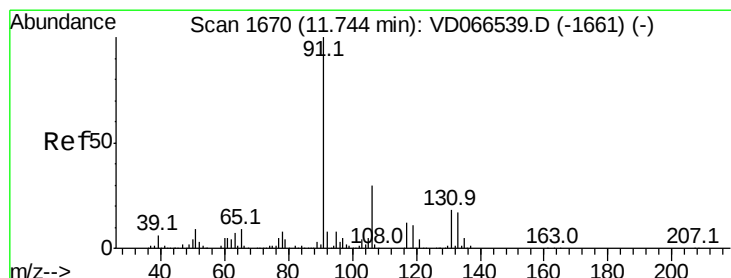
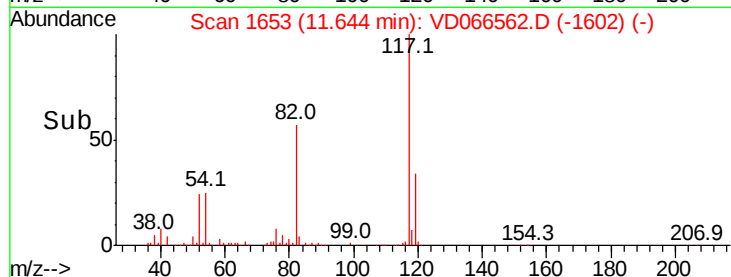
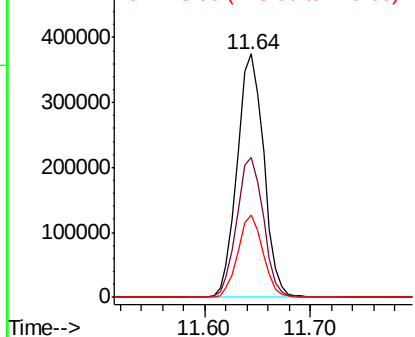
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066562.D
Acq: 04 Sep 2020 14:50

Instrument :
MSVOA_D
ClientSampleId :
TP-3

Tot Ion:117 Resp: 652921
Ion Ratio Lower Upper
117 100
82 57.3 46.2 69.2
119 33.8 25.8 38.8

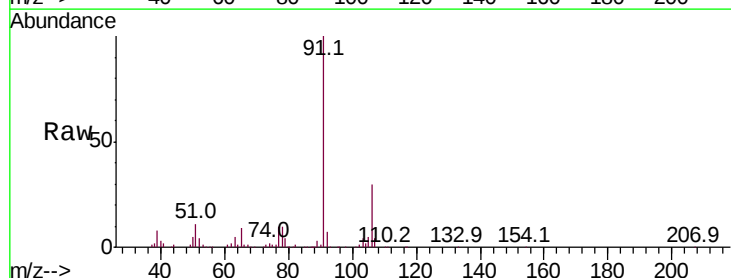


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VDC
Ion 118.90 (118.60 to 119.60): V

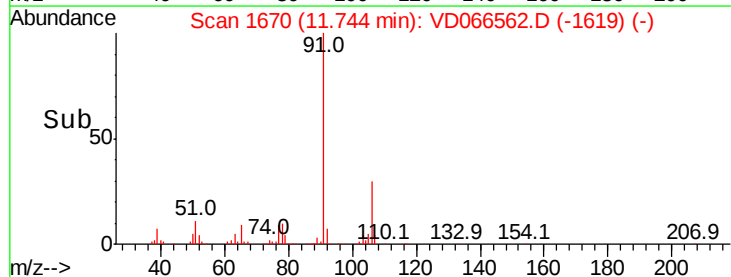
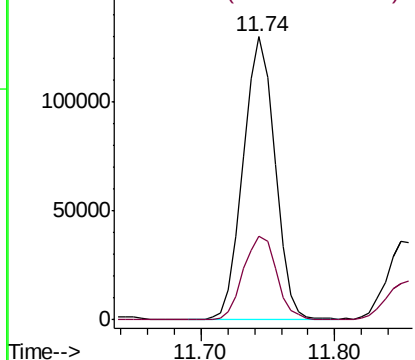


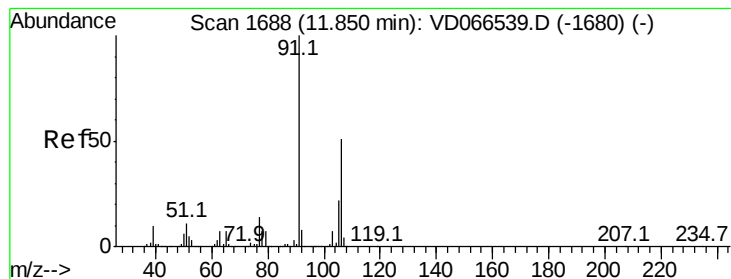
#67
Ethyl Benzene
Concen: 8.675 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD066562.D
Acq: 04 Sep 2020 14:50

Tgt Ion: 91 Resp: 214664
Ion Ratio Lower Upper
91 100
106 29.7 24.3 36.5



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





#68

m/p-Xylenes

Concen: 3.807 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

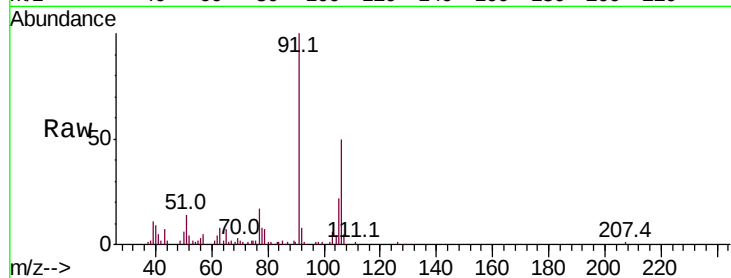
TP-3

Tot Ion:106 Resp: 34978

Ion Ratio Lower Upper

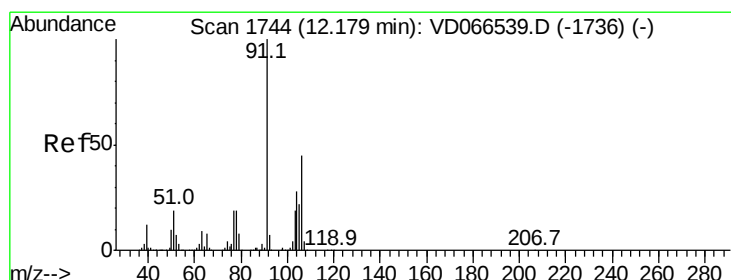
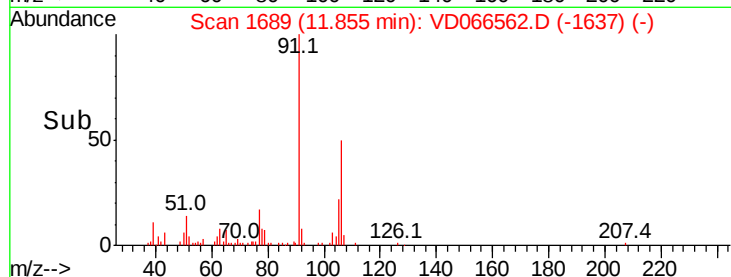
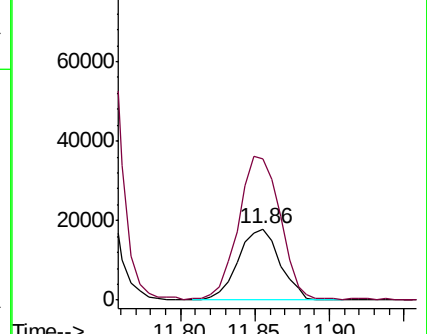
106 100

91 199.7 162.4 243.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 1.525 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.01 min

Lab File: VD066562.D

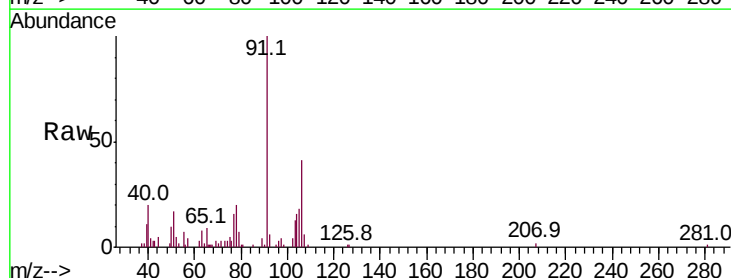
Acq: 04 Sep 2020 14:50

Tgt Ion:106 Resp: 12554

Ion Ratio Lower Upper

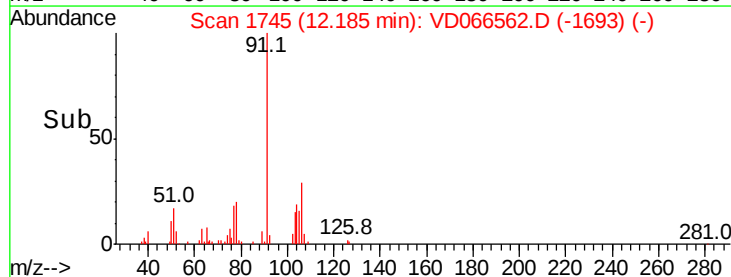
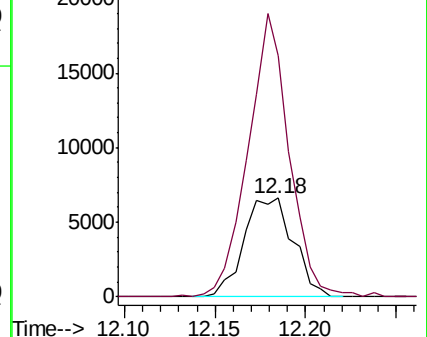
106 100

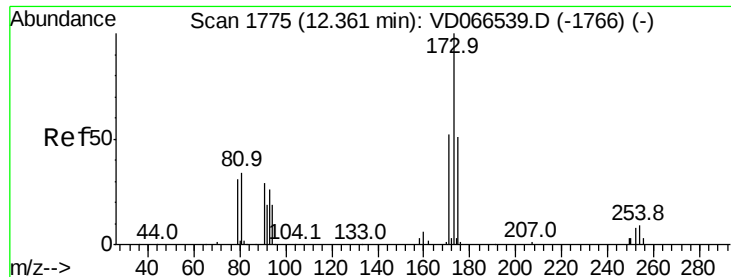
91 238.4 107.9 323.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC





#71

Bromoform

Concen: 1.355 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampled :

TP-3

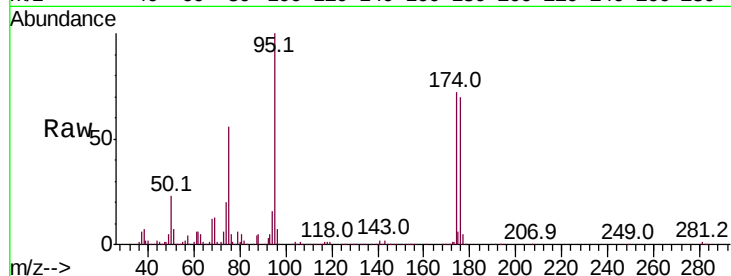
Tot Ion:173 Resp: 3511

Ion Ratio Lower Upper

173 100

175 360.9 24.2 72.6#

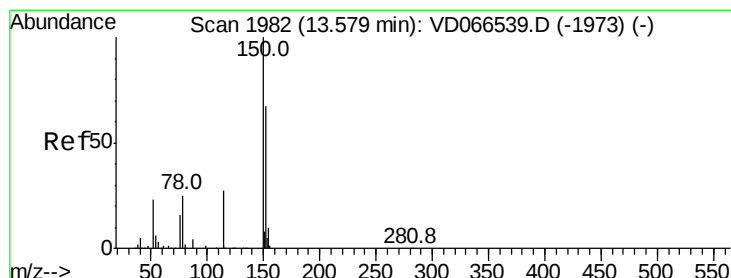
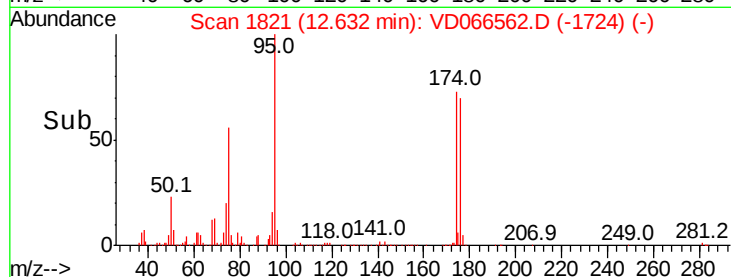
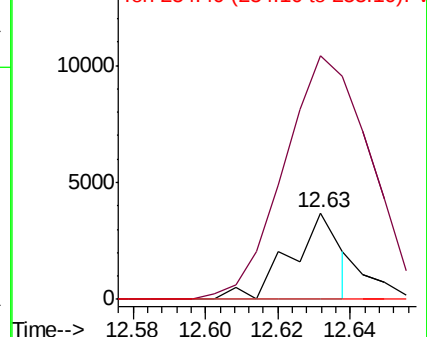
254 0.0 0.0 0.0



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: VD066562.D

Acq: 04 Sep 2020 14:50

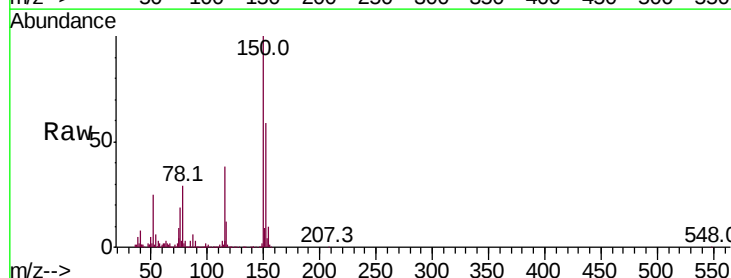
Tgt Ion:152 Resp: 271295

Ion Ratio Lower Upper

152 100

115 64.1 30.4 91.2

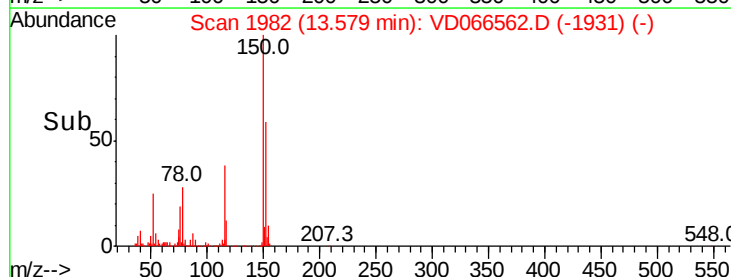
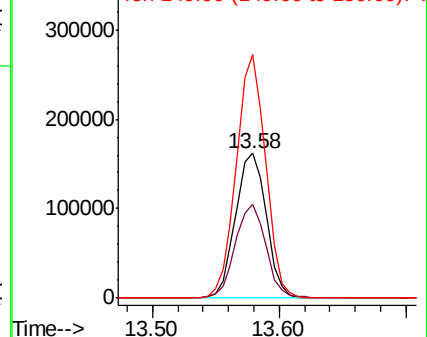
150 159.7 0.0 345.8

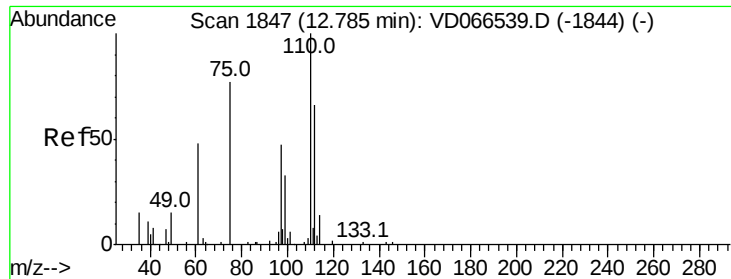


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

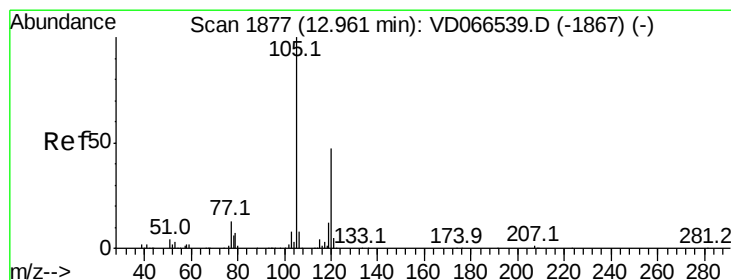
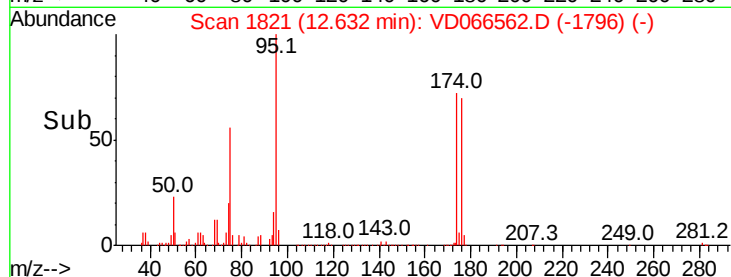
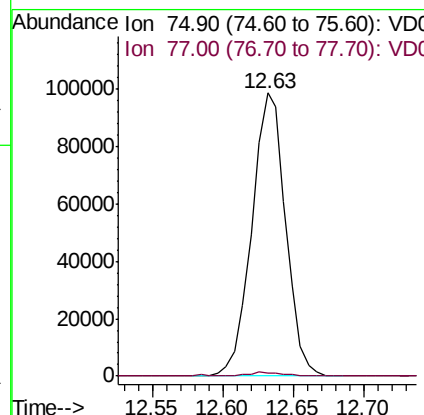
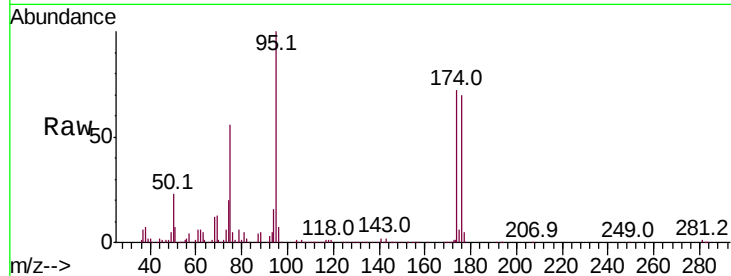




#76
 1,2,3-Trichloropropane
 Concen: 63.432 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

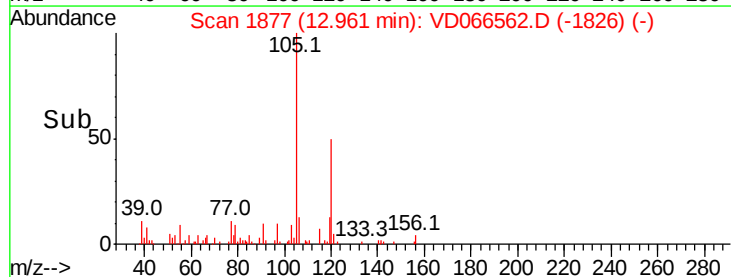
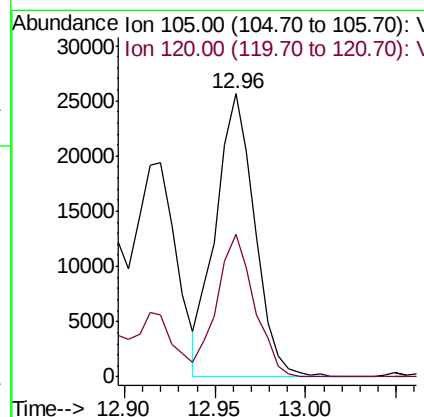
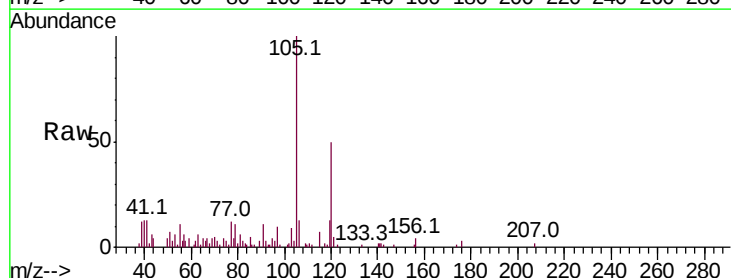
Instrument :
 MSVOA_D
 ClientSampled :
 TP-3

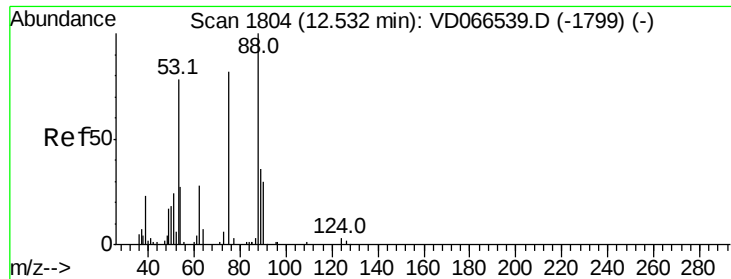
Tot Ion: 75 Resp: 165502
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.268 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.00 min
 Lab File: VD066562.D
 Acq: 04 Sep 2020 14:50

Tgt Ion:105 Resp: 38346
 Ion Ratio Lower Upper
 105 100
 120 48.5 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 148.091 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

TP-3

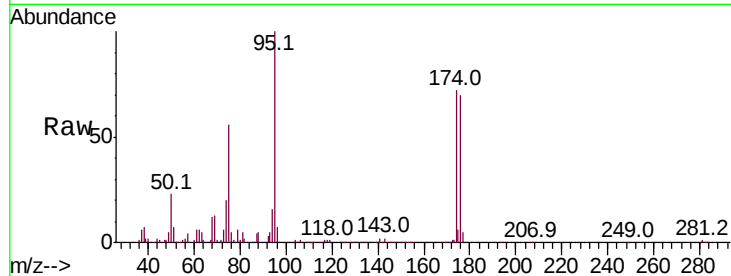
Tot Ion: 75 Resp: 165502

Ion Ratio Lower Upper

75 100

53 0.4 87.0 130.4#

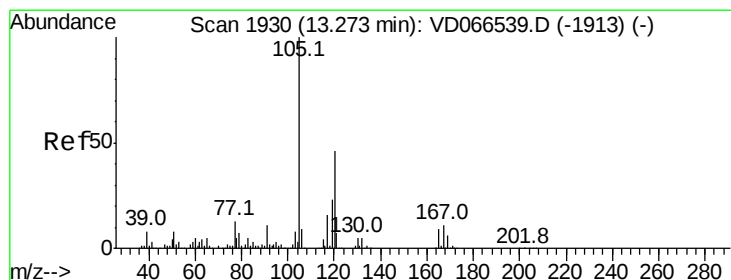
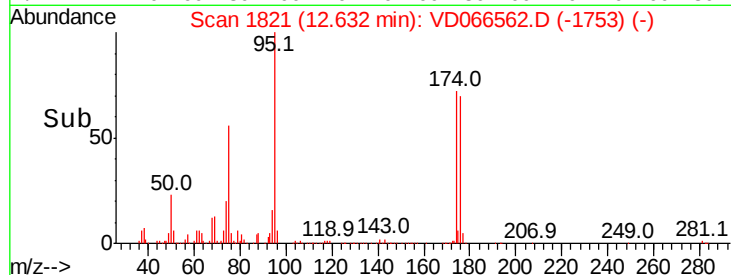
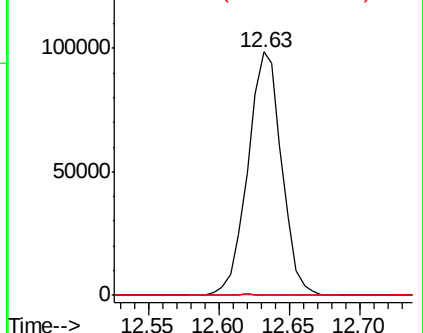
89 0.1 37.1 55.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 4.421 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VD066562.D

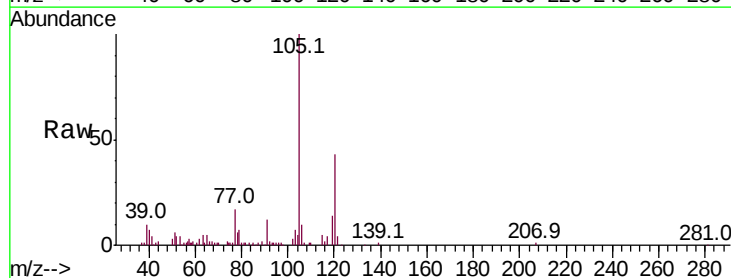
Acq: 04 Sep 2020 14:50

Tgt Ion: 105 Resp: 74413

Ion Ratio Lower Upper

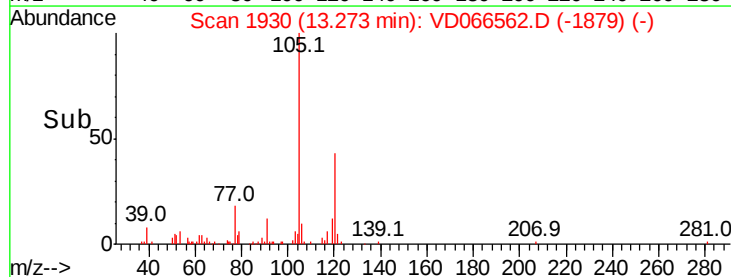
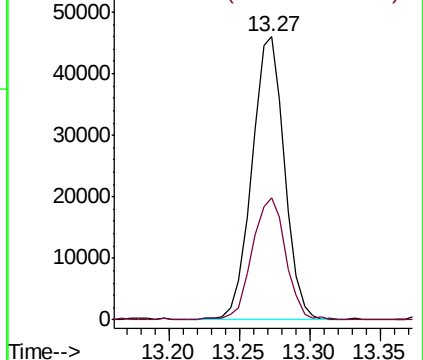
105 100

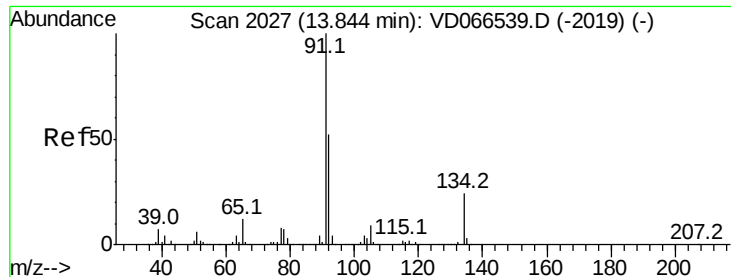
120 44.5 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

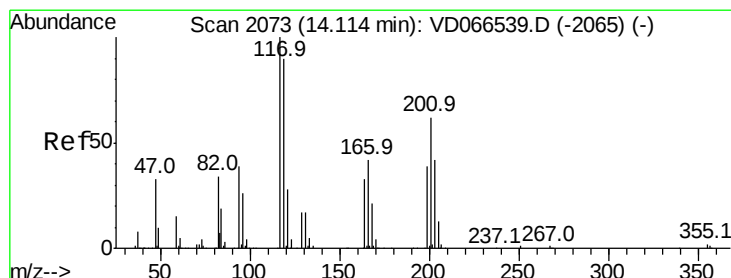
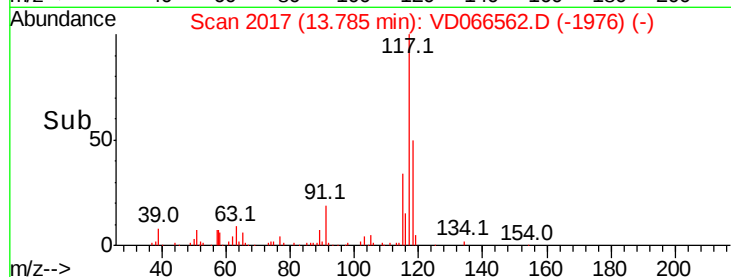
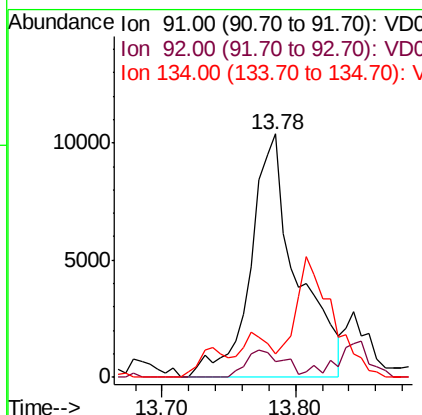
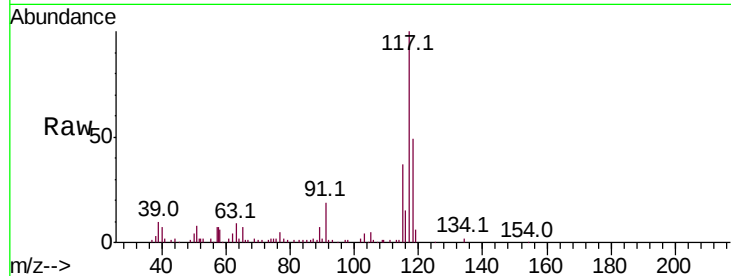




#89
n-Butylbenzene
Concen: 1.421 ug/l
RT: 13.78 min Scan# 2017
Delta R.T. -0.06 min
Lab File: VD066562.D
Acq: 04 Sep 2020 14:50

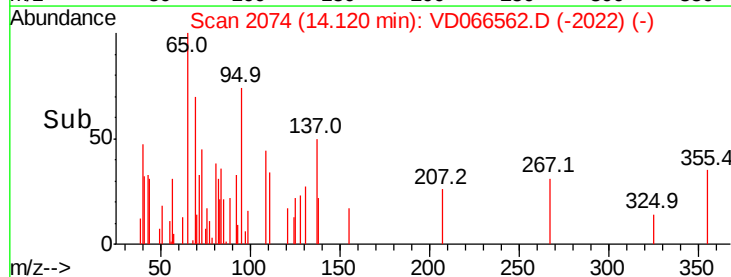
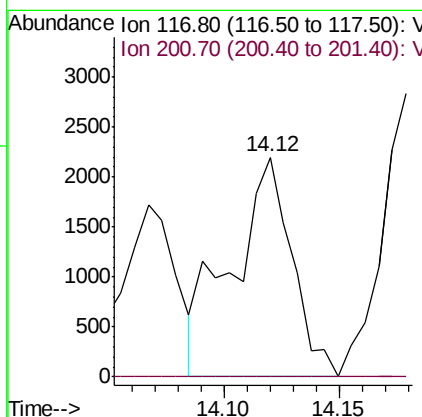
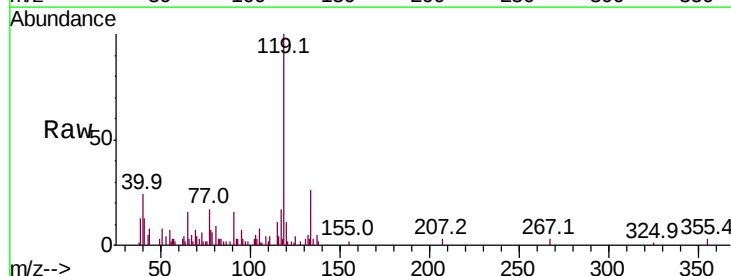
Instrument :
MSVOA_D
ClientSampled :
TP-3

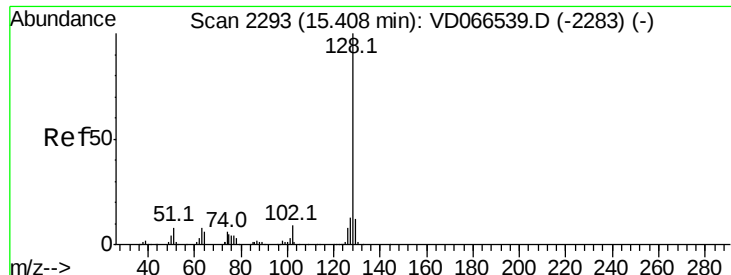
Tot Ion: 91 Resp: 24783
Ion Ratio Lower Upper
91 100
92 9.4 26.5 79.5#
134 11.2 12.1 36.3#



#90
Hexachloroethane
Concen: 1.035 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD066562.D
Acq: 04 Sep 2020 14:50

Tgt Ion: 117 Resp: 3992
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.5#





#95

Naphthalene

Concen: 25.814 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD066562.D

Acq: 04 Sep 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

TP-3

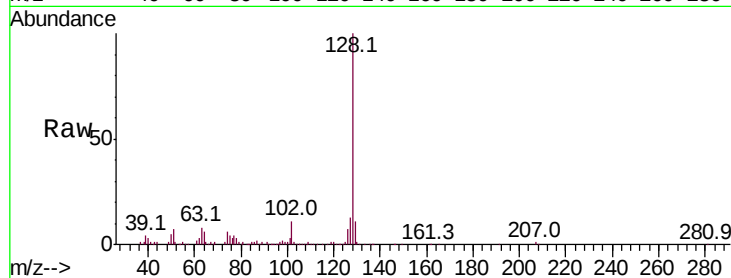
Tot Ion:128 Resp: 210369

Ion Ratio Lower Upper

128 100

127 13.7 10.7 16.1

129 11.0 9.1 13.7



Abundance Ion 128.00 (127.70 to 128.70): V

150000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

