

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091720\
 Data File : VD066745.D
 Acq On : 17 Sep 2020 15:33
 Operator : VA/SY
 Sample : L4038-11
 Misc : 6.78G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B36-091620-14-15

Quant Time: Sep 18 01:15:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091520S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 16:35:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	384175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	694578	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	651680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	272192	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	229622	56.02	ug/l	0.00
Spiked Amount 50.000			Recovery =	112.04%		
35) Dibromofluoromethane	7.91	113	232523	54.60	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.20%		
50) Toluene-d8	10.34	98	857640	56.53	ug/l	0.00
Spiked Amount 50.000			Recovery =	113.06%		
62) 4-Bromofluorobenzene	12.63	95	286786	54.76	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.52%		

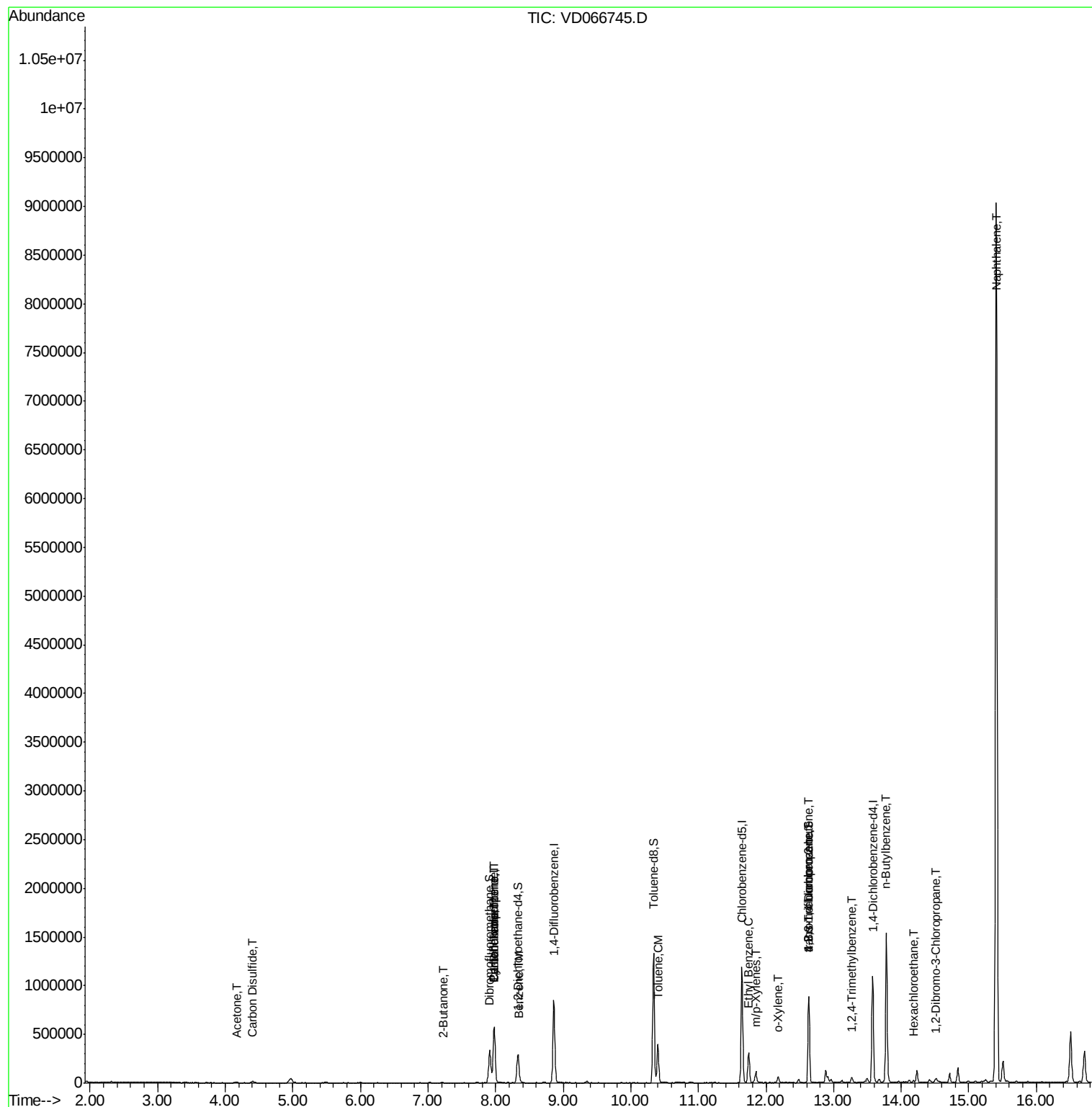
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	110	Below Cal	#	43
11) Tert butyl alcohol	5.16	59	57	Below Cal	#	76
16) Acetone	4.17	43	5052	6.052	ug/l #	81
17) Carbon Disulfide	4.40	76	26797	2.218	ug/l	95
18) Methyl Acetate	4.64	43	58	Below Cal	#	52
20) Methylene Chloride	4.97	84	32875	Below Cal		93
25) 2-Butanone	7.23	43	1440	1.325	ug/l #	49
31) Cyclohexane	7.97	56	12378	1.710	ug/l #	6
36) 1,1-Dichloropropene	7.97	75	34226	4.793	ug/l #	52
38) Carbon Tetrachloride	7.98	117	43605	5.750	ug/l #	16
40) Benzene	8.35	78	27989	1.449	ug/l	95
52) Toluene	10.40	92	167291	13.517	ug/l	97
67) Ethyl Benzene	11.74	91	210055	8.595	ug/l	100
68) m/p-Xylenes	11.85	106	33757	3.655	ug/l	99
69) o-Xylene	12.18	106	16934	2.075	ug/l	94
76) 1,2,3-Trichloropropane	12.63	75	155931	66.927	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	155931	144.441	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.27	105	29016	1.690	ug/l	96
89) n-Butylbenzene	13.78	91	136094	7.755	ug/l #	42
90) Hexachloroethane	14.18	117	6526	1.721	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.52	75	1756	3.146	ug/l #	7
95) Naphthalene	15.41	128	7961214	978.538	ug/l	99

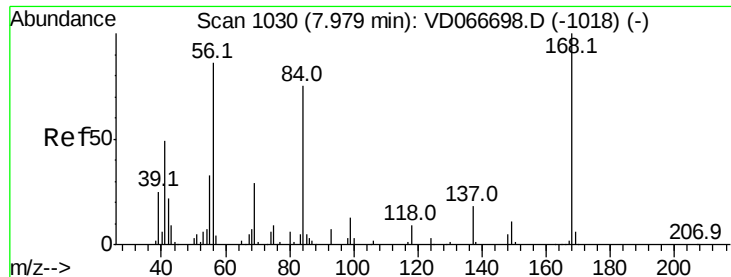
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 15 16:35:37 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: VD066745.D

Acq: 17 Sep 2020 15:33

Instrument :

MSVOA_D

ClientSampleId :

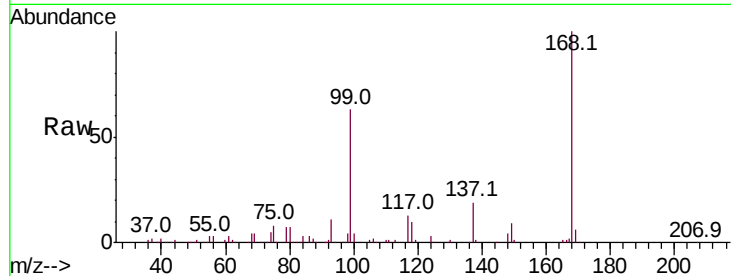
PAV-B36-091620-14-15

Tot Ion:168 Resp: 384175

Ion Ratio Lower Upper

168 100

99 63.3 54.4 81.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

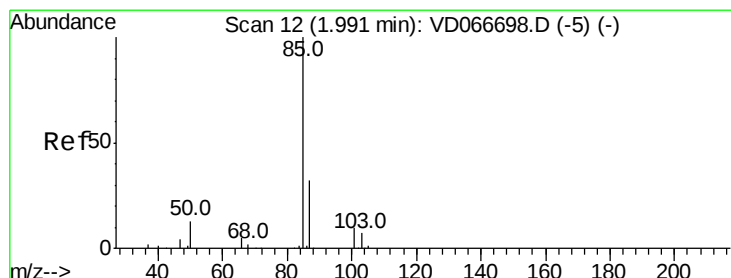
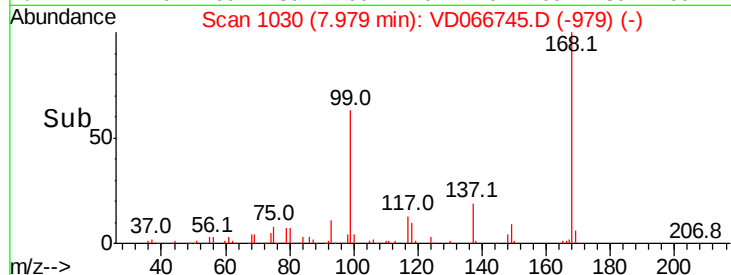
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD066745.D

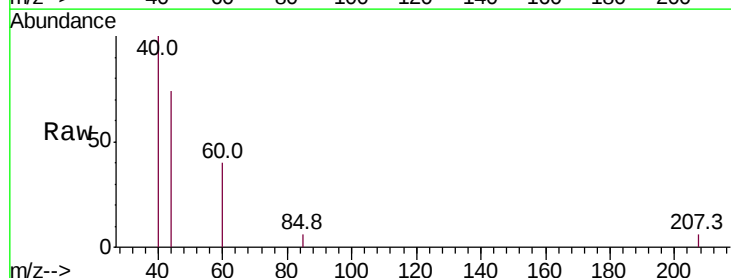
Acq: 17 Sep 2020 15:33

Tgt Ion: 85 Resp: 110

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

150

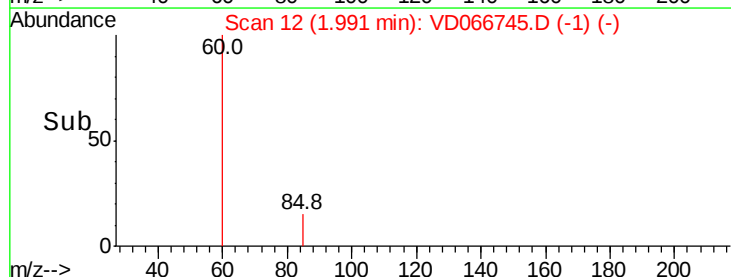
100

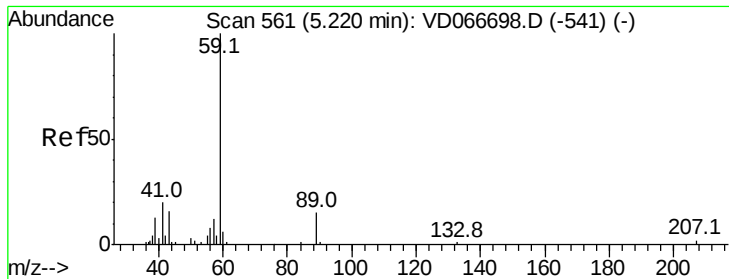
50

0

Time-->

1.96 1.98 2.00



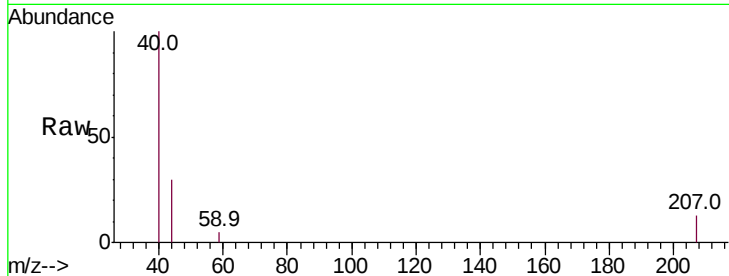


#11

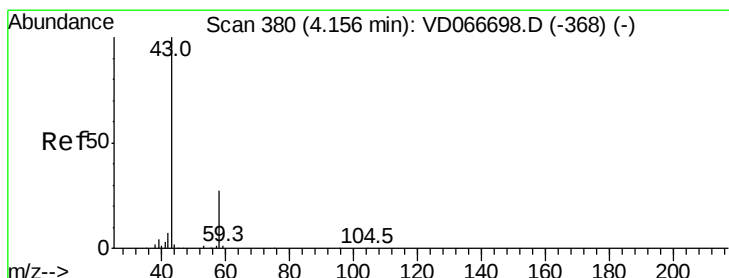
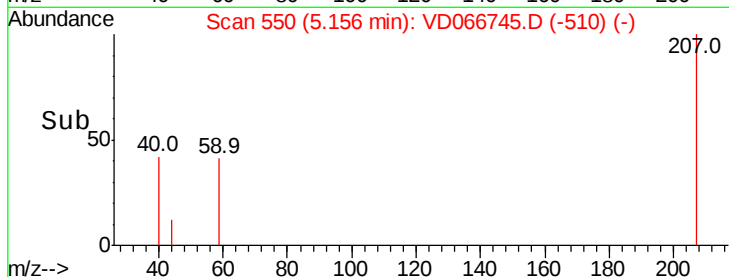
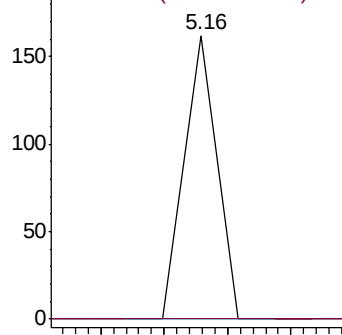
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.16 min Scan# 550
 Delta R.T. -0.06 min
 Lab File: VD066745.D
 Acq: 17 Sep 2020 15:33

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B36-091620-14-15

Tot Ion: 59 Resp: 57
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#



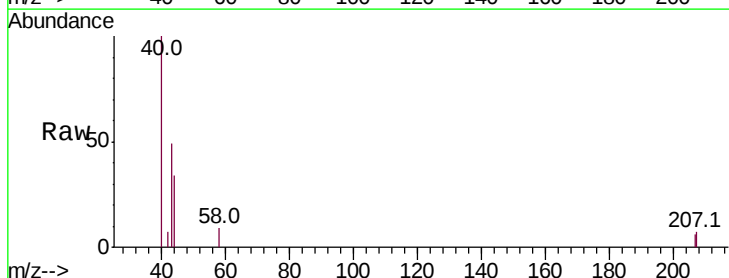
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



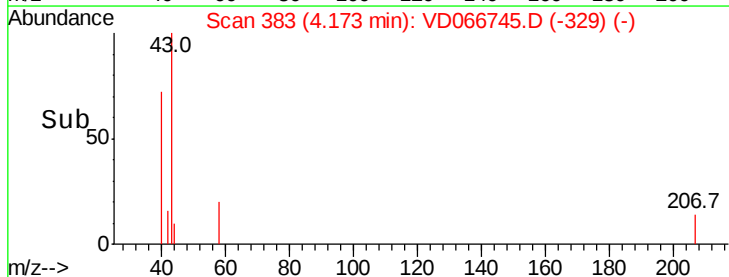
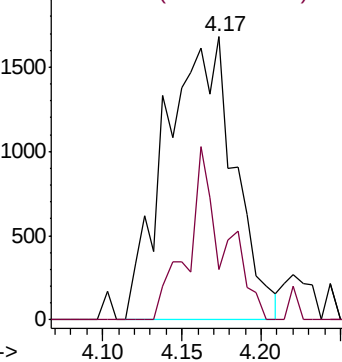
#16

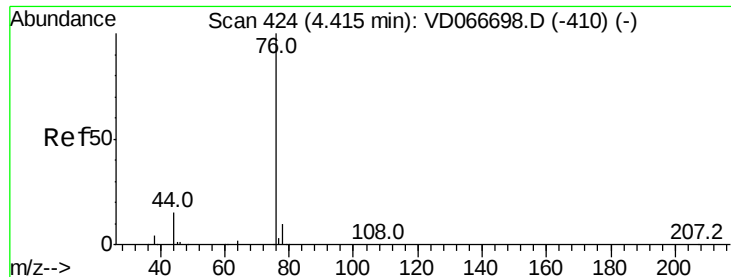
Acetone
 Concen: 6.052 ug/l
 RT: 4.17 min Scan# 383
 Delta R.T. 0.02 min
 Lab File: VD066745.D
 Acq: 17 Sep 2020 15:33

Tgt Ion: 43 Resp: 5052
 Ion Ratio Lower Upper
 43 100
 58 17.7 21.9 32.9#



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

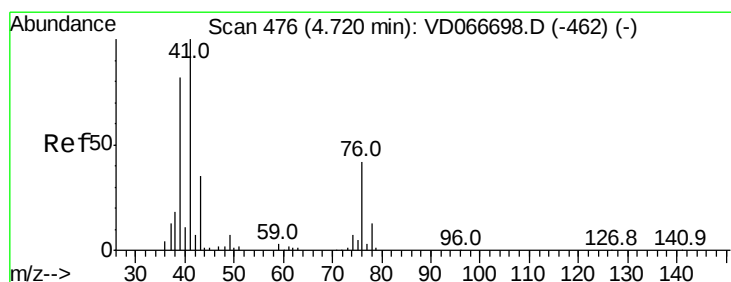
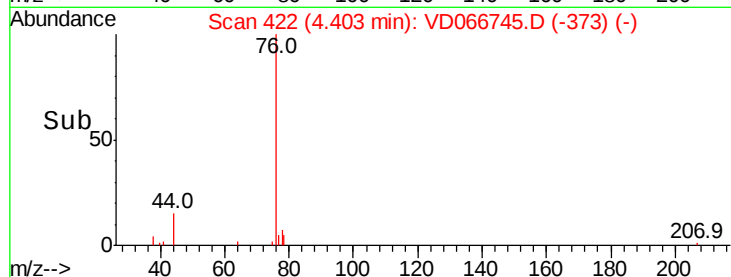
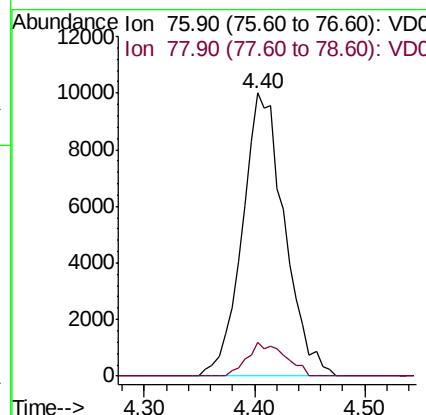
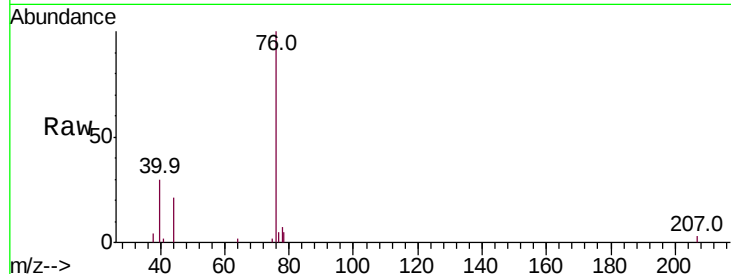




#17
Carbon Disulfide
Concen: 2.218 ug/l
RT: 4.40 min Scan# 422
Delta R.T. -0.01 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

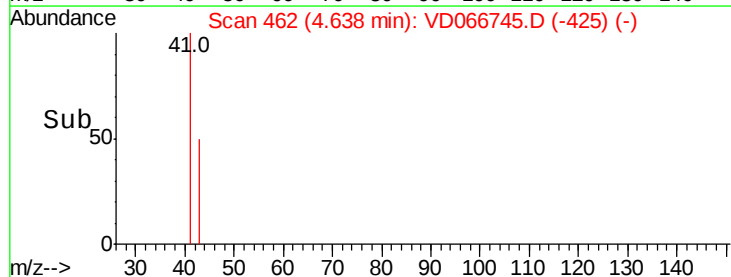
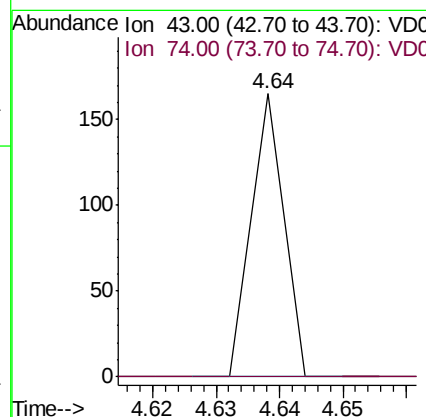
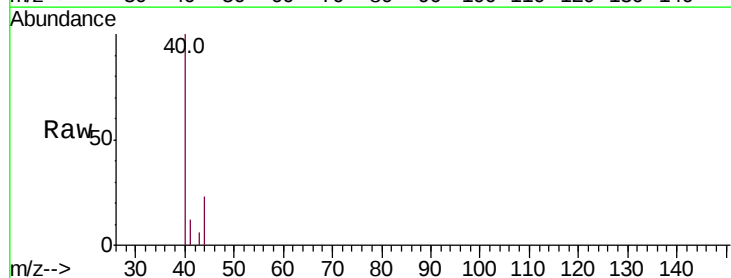
Instrument :
MSVOA_D
ClientSampleId :
PAV-B36-091620-14-15

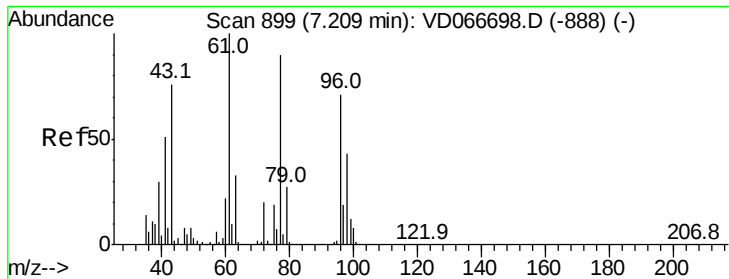
Tot Ion: 76 Resp: 26797
Ion Ratio Lower Upper
76 100
78 11.8 8.0 12.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.64 min Scan# 462
Delta R.T. -0.08 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#





#25

2-Butanone

Concen: 1.325 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

Instrument :

MSVOA_D

ClientSampleId :

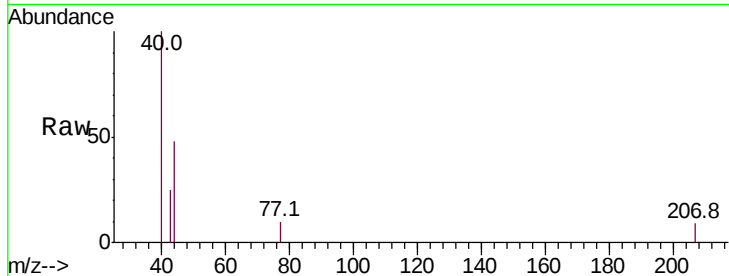
PAV-B36-091620-14-15

Tot Ion: 43 Resp: 1440

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.23

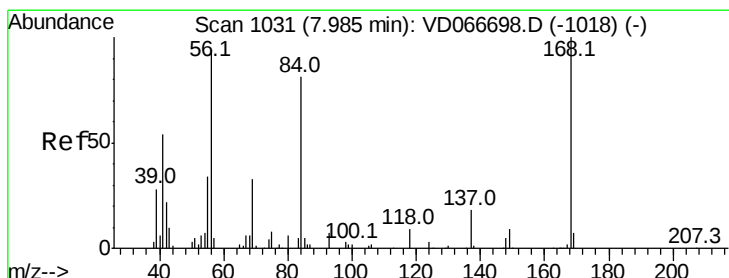
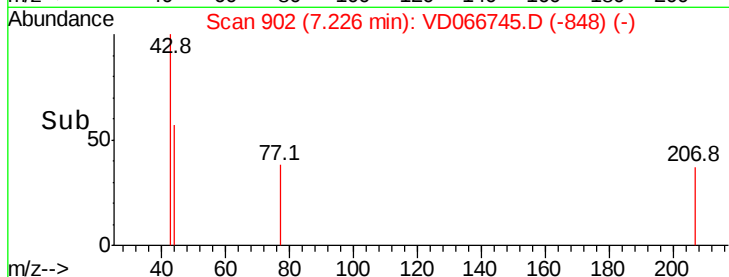
600

400

200

0

Time--> 7.15 7.20 7.25



#31

Cyclohexane

Concen: 1.710 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

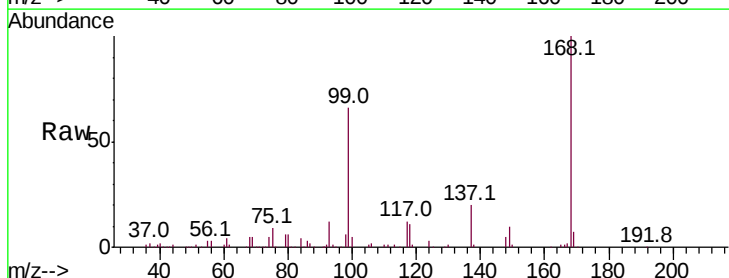
Tgt Ion: 56 Resp: 12378

Ion Ratio Lower Upper

56 100

69 165.0 27.7 41.5#

84 123.5 68.5 102.7#



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

10000

8000

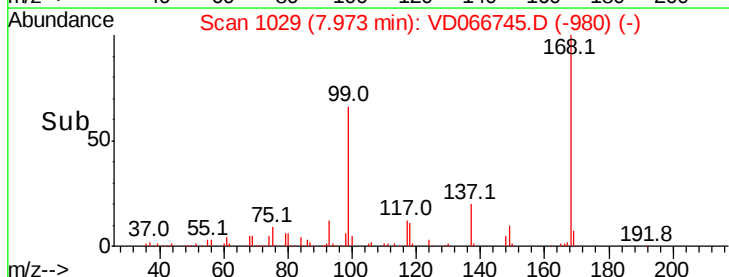
6000

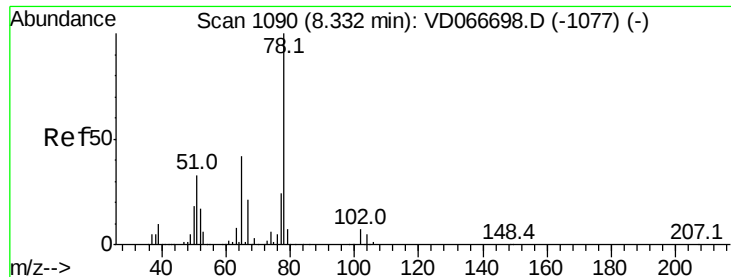
4000

2000

0

Time--> 7.85 7.90 7.95 8.00 8.05





#33

1,2-Dichloroethane-d4

Concen: 56.020 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

Instrument :

MSVOA_D

ClientSampleId :

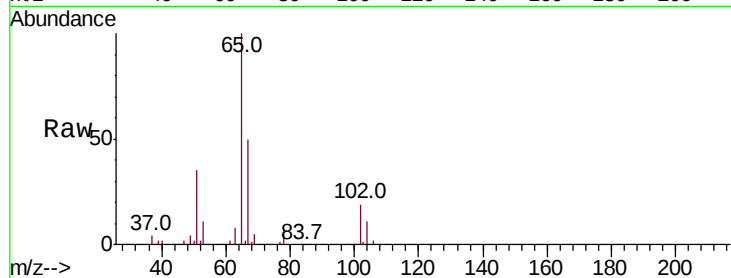
PAV-B36-091620-14-15

Tot Ion: 65 Resp: 229622

Ion Ratio Lower Upper

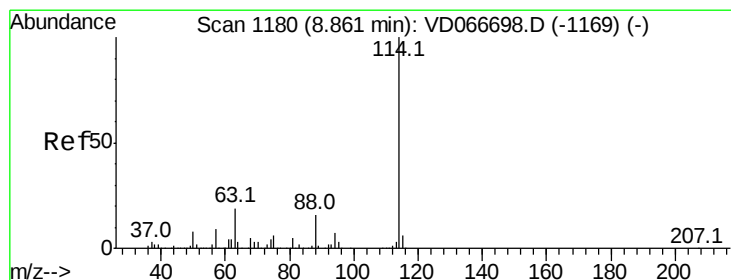
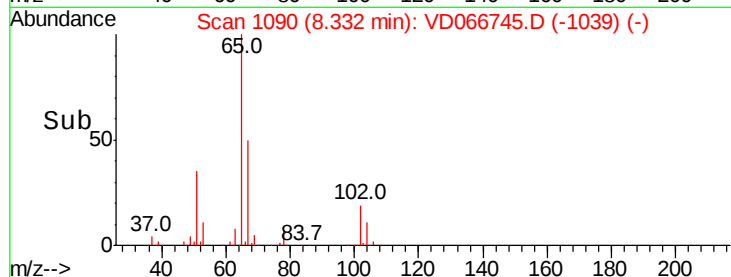
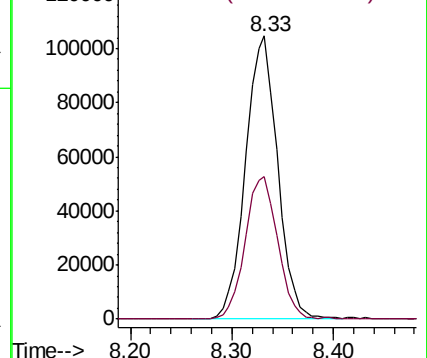
65 100

67 50.9 0.0 102.2



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: VD066745.D

Acq: 17 Sep 2020 15:33

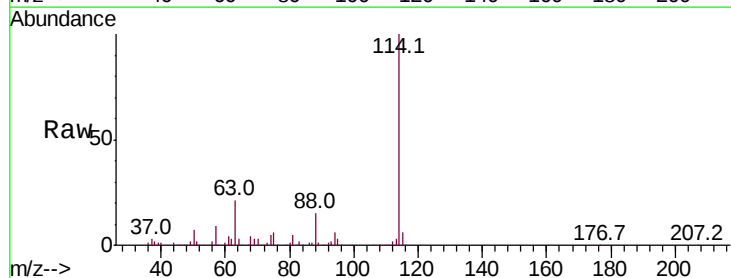
Tgt Ion: 114 Resp: 694578

Ion Ratio Lower Upper

114 100

63 21.4 0.0 37.6

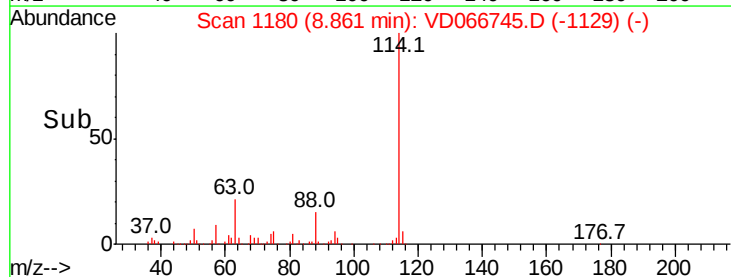
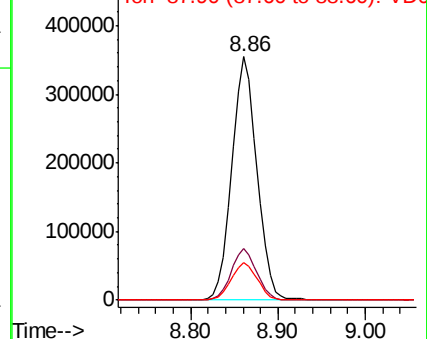
88 15.2 0.0 32.2

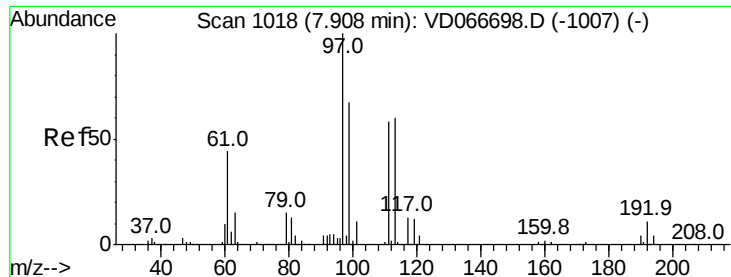


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

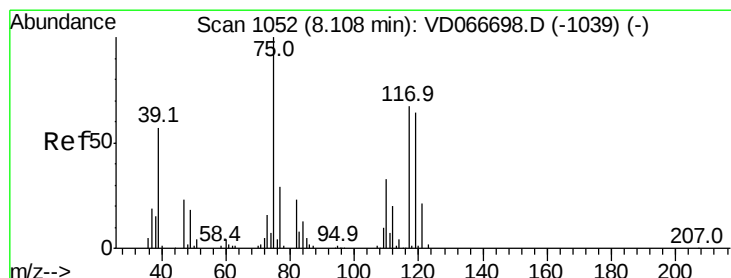
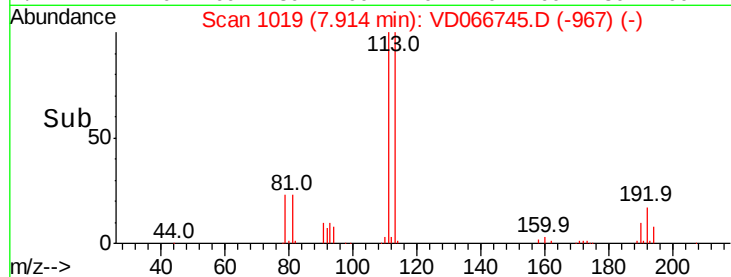
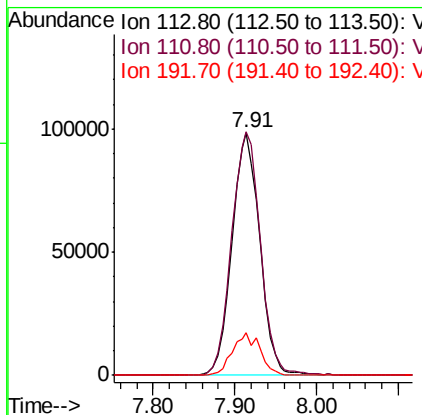
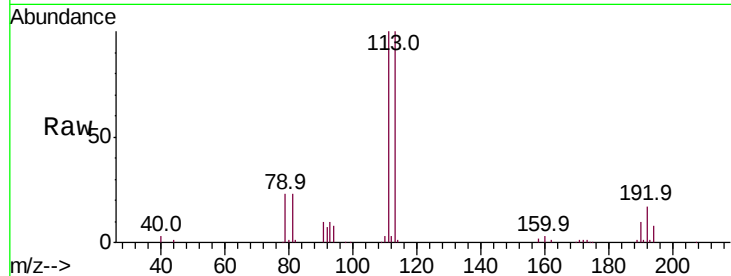




#35
 Dibromofluoromethane
 Concen: 54.603 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066745.D
 Acq: 17 Sep 2020 15:33

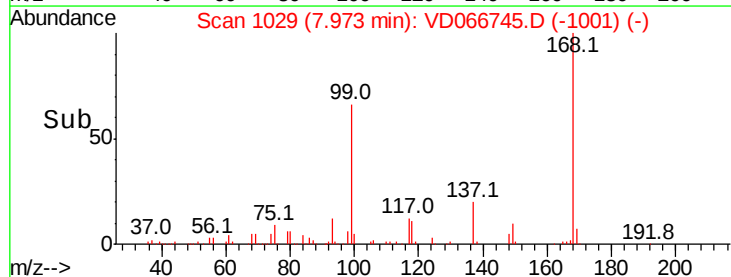
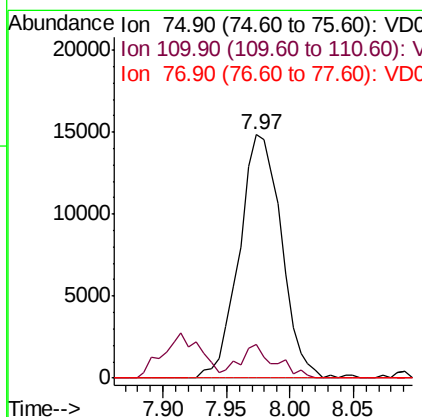
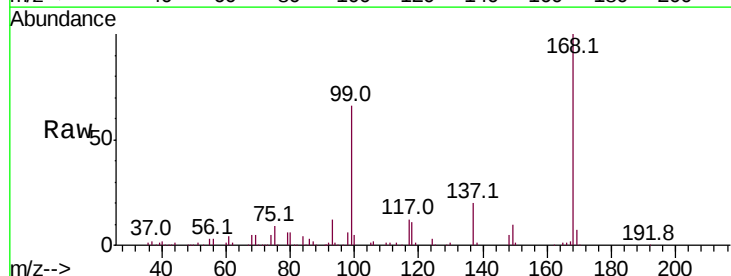
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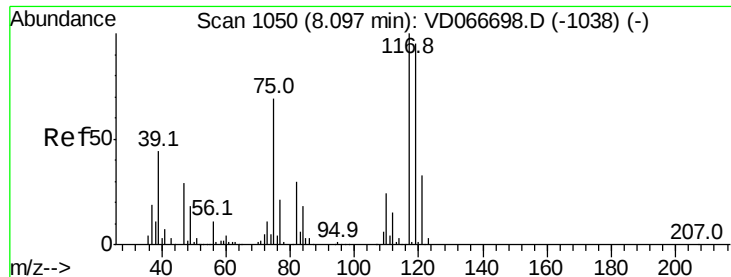
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.2	124.8
192	17.4	14.8	22.2



#36
 1,1-Dichloropropene
 Concen: 4.793 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD066745.D
 Acq: 17 Sep 2020 15:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.6	17.1	51.2#
77	0.0	25.0	37.6#

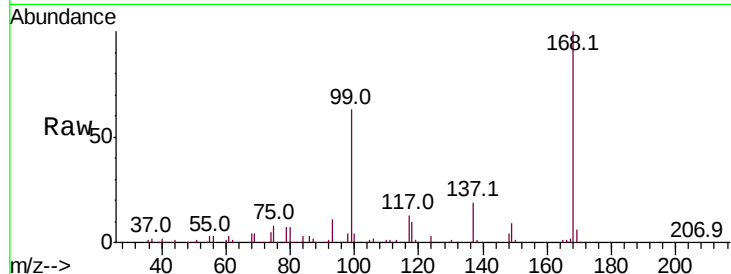




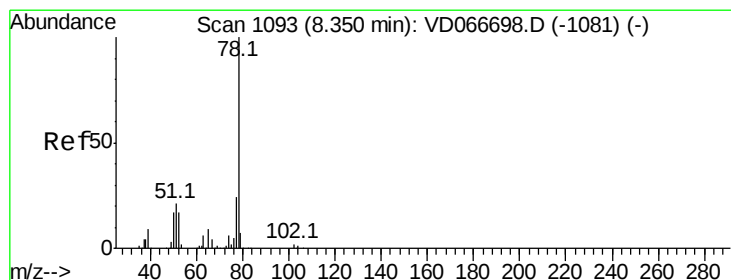
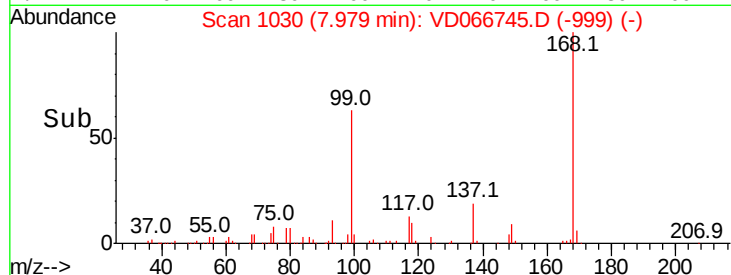
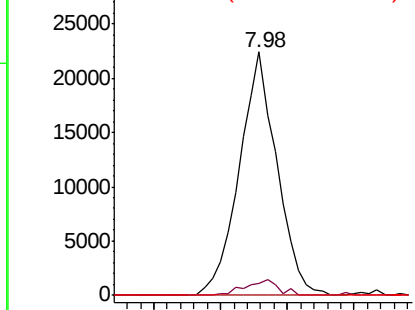
#38
Carbon Tetrachloride
Concen: 5.750 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

Instrument :
MSVOA_D
ClientSampleId :
PAV-B36-091620-14-15

Tot Ion:117 Resp: 43605
Ion Ratio Lower Upper
117 100
119 4.7 75.8 113.6#
121 0.0 26.2 39.4#

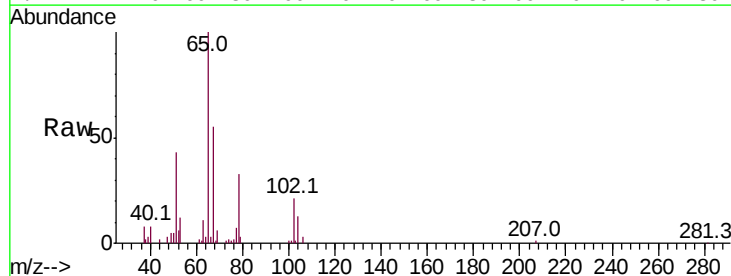


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

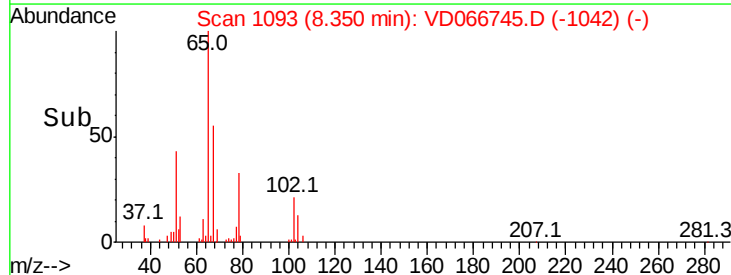
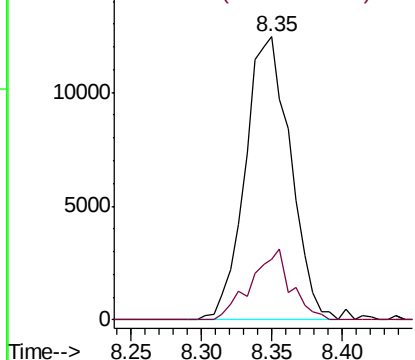


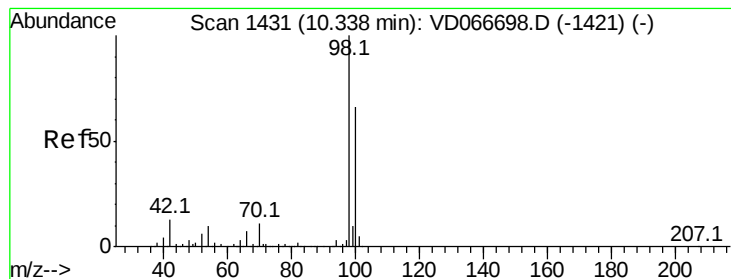
#40
Benzene
Concen: 1.449 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

Tgt Ion: 78 Resp: 27989
Ion Ratio Lower Upper
78 100
77 21.5 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC





#50

Toluene-d8

Concen: 56.529 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

Instrument :

MSVOA_D

ClientSampleId :

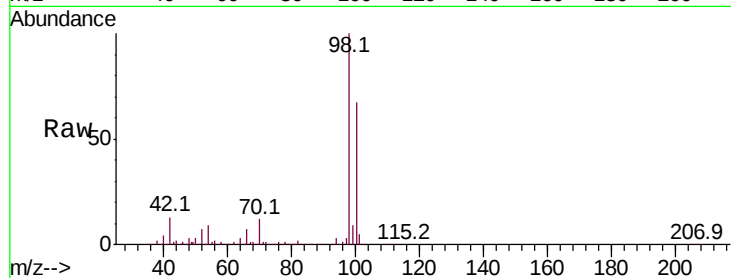
PAV-B36-091620-14-15

Tot Ion: 98 Resp: 857640

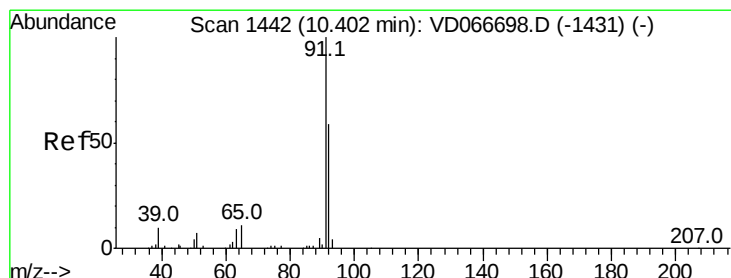
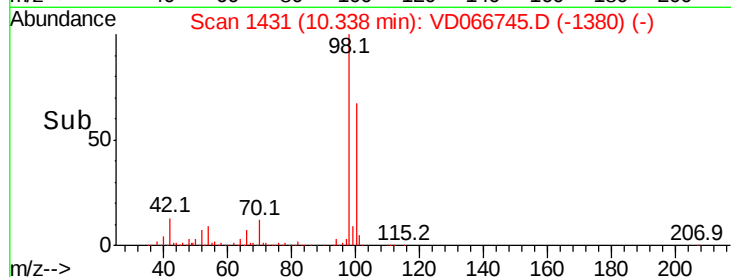
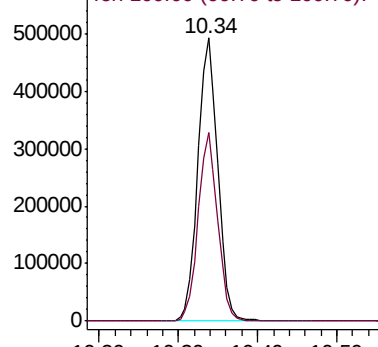
Ion Ratio Lower Upper

98 100

100 65.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC



#52

Toluene

Concen: 13.517 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD066745.D

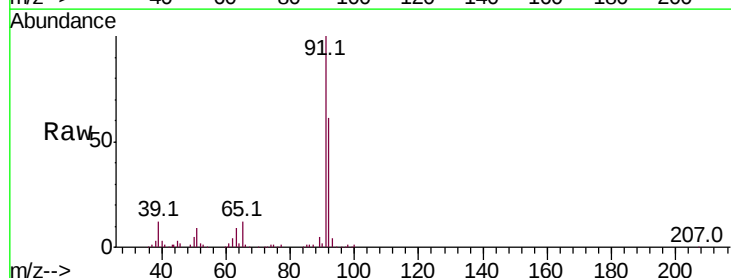
Acq: 17 Sep 2020 15:33

Tgt Ion: 92 Resp: 167291

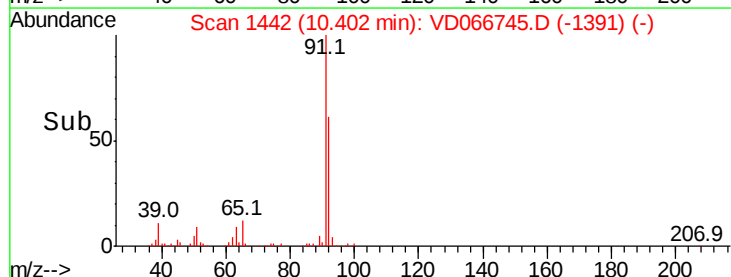
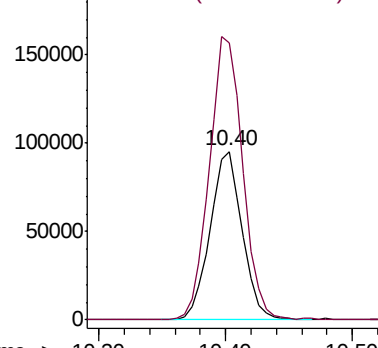
Ion Ratio Lower Upper

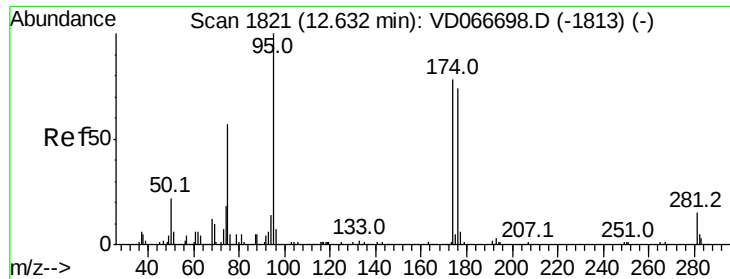
92 100

91 173.9 135.8 203.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

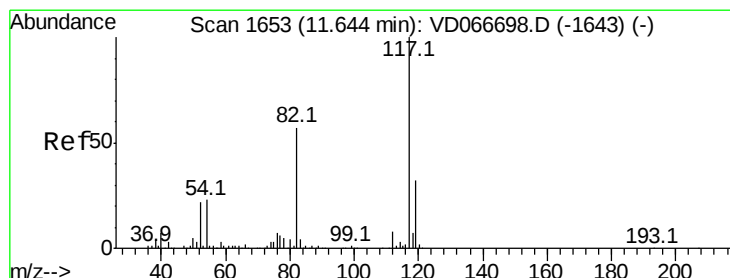
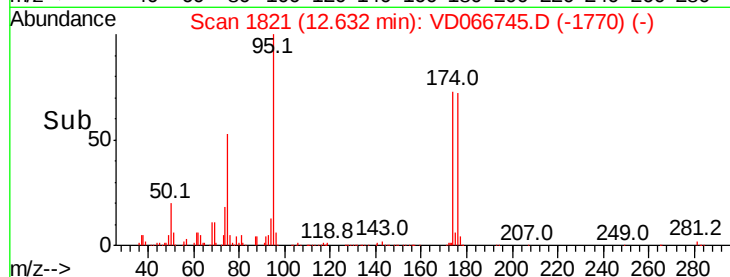
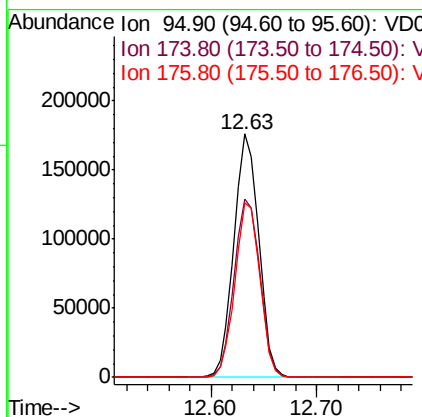
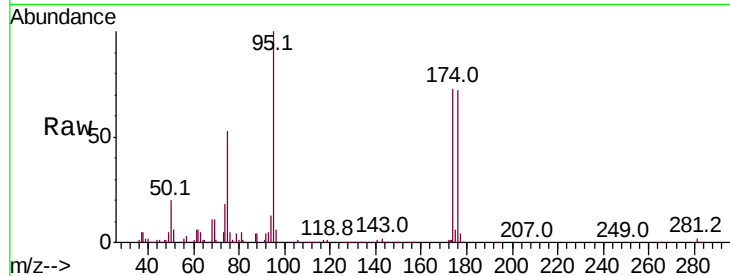




#62
4-Bromofluorobenzene
Concen: 54.761 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

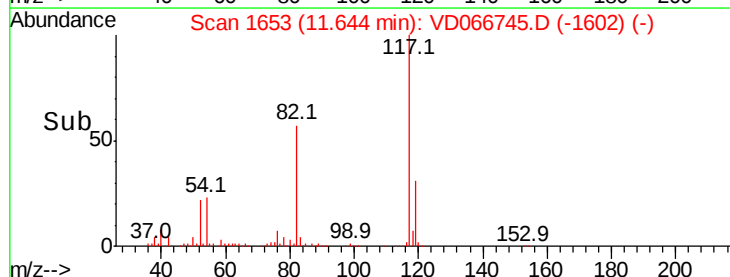
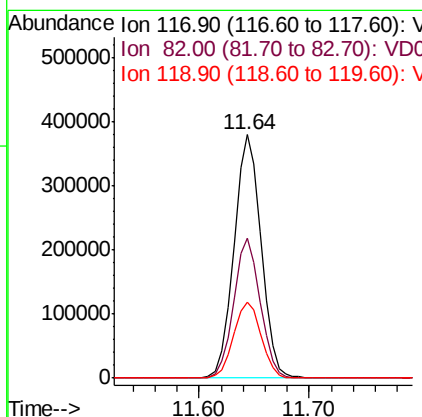
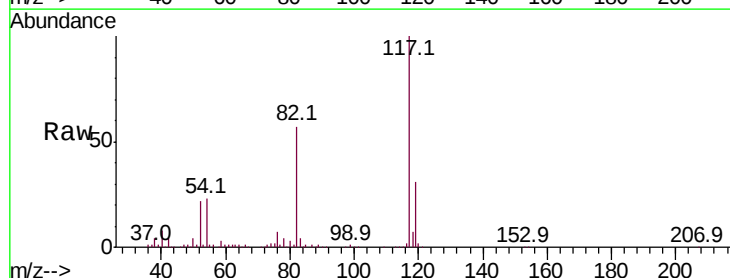
Instrument :
MSVOA_D
ClientSampleId :
PAV-B36-091620-14-15

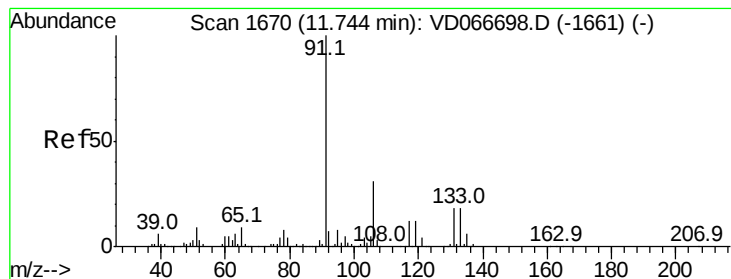
Tot Ion: 95 Resp: 286786
Ion Ratio Lower Upper
95 100
174 75.7 0.0 156.6
176 71.6 0.0 150.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

Tgt Ion: 117 Resp: 651680
Ion Ratio Lower Upper
117 100
82 57.4 45.4 68.0
119 31.2 25.8 38.6





#67

Ethyl Benzene

Concen: 8.595 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

Instrument :

MSVOA_D

ClientSampleId :

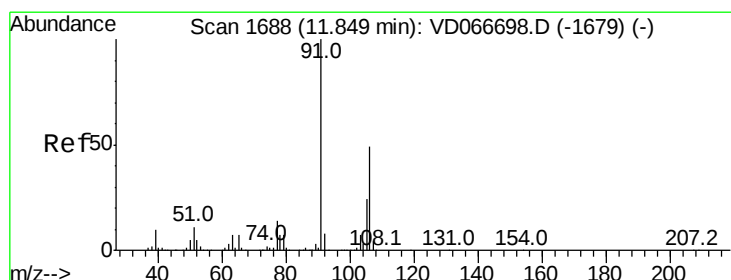
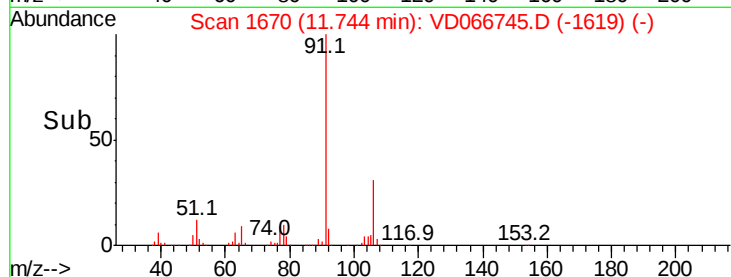
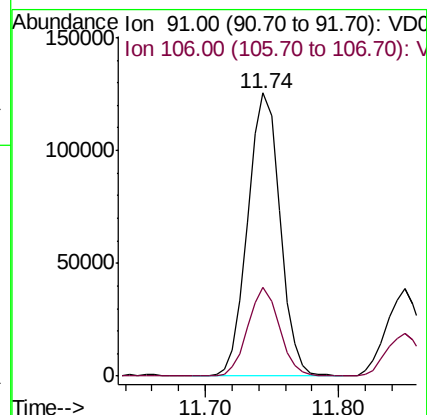
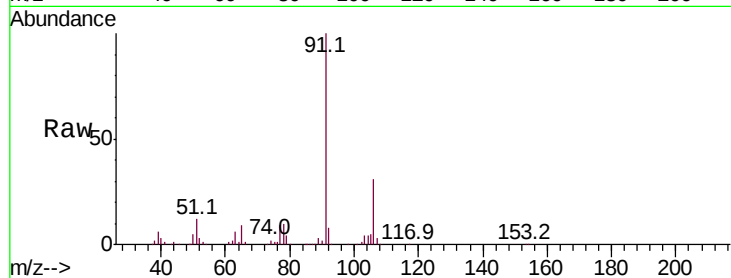
PAV-B36-091620-14-15

Tot Ion: 91 Resp: 210055

Ion Ratio Lower Upper

91 100

106 31.2 25.1 37.7



#68

m/p-Xylenes

Concen: 3.655 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VD066745.D

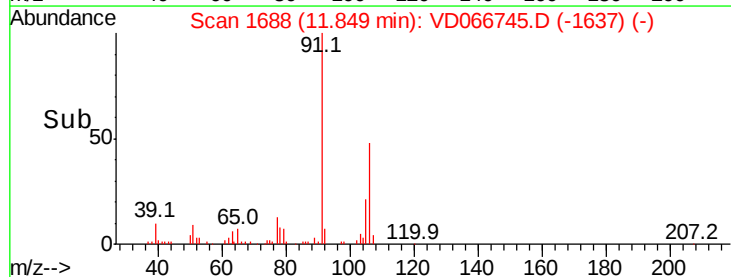
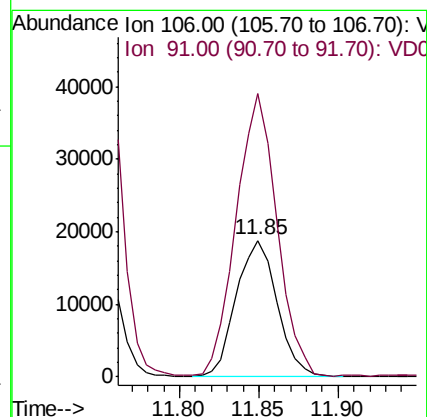
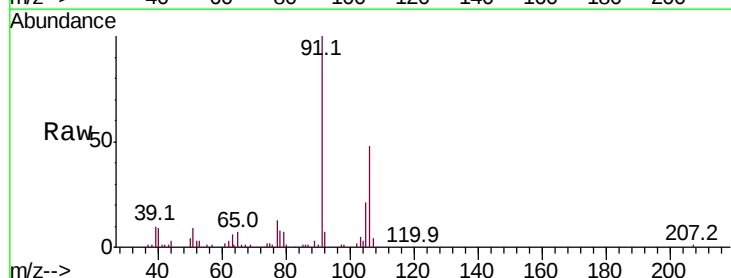
Acq: 17 Sep 2020 15:33

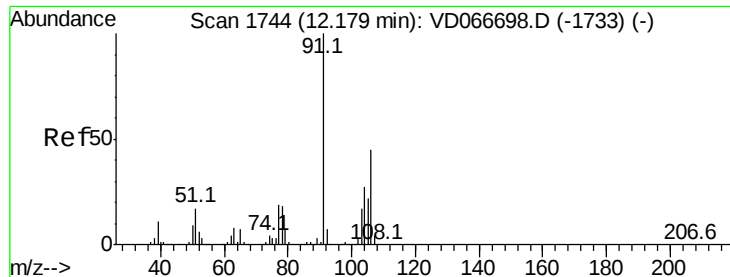
Tgt Ion: 106 Resp: 33757

Ion Ratio Lower Upper

106 100

91 207.3 164.8 247.2

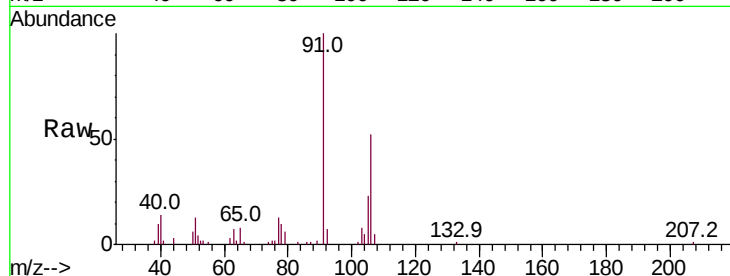




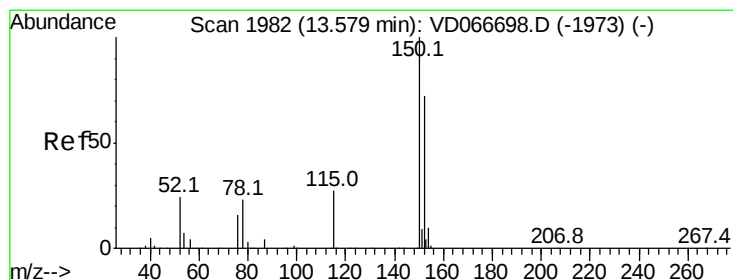
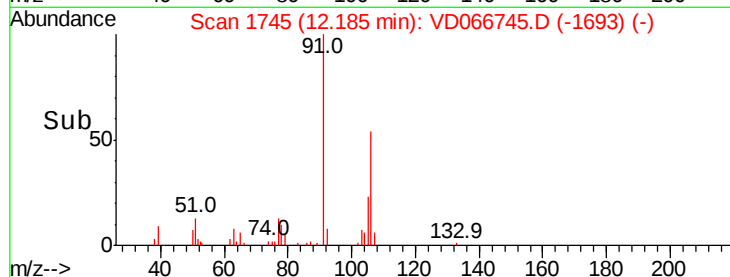
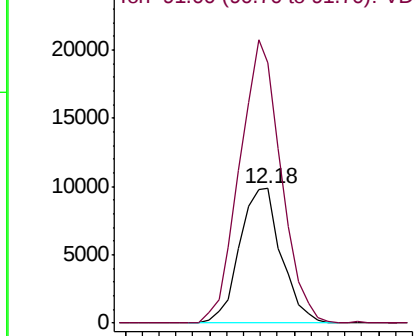
#69
o-Xylene
Concen: 2.075 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.01 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

Instrument :
MSVOA_D
ClientSampleId :
PAV-B36-091620-14-15

Tot Ion:106 Resp: 16934
Ion Ratio Lower Upper
106 100
91 208.5 109.4 328.2

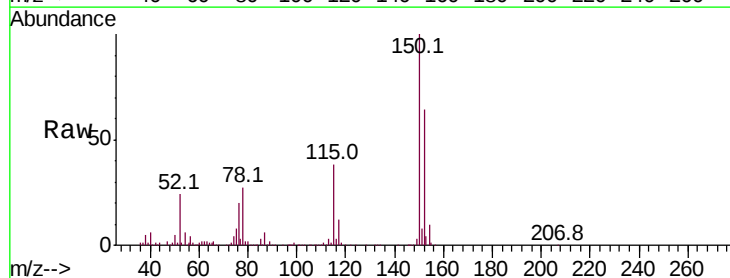


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

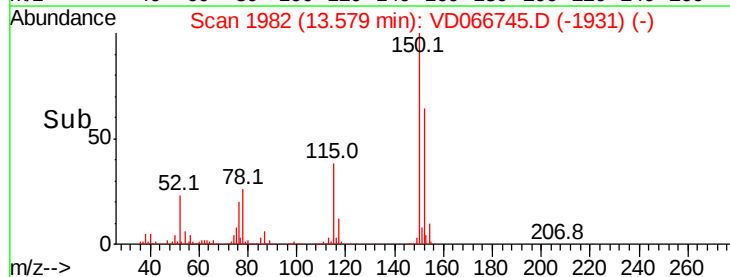
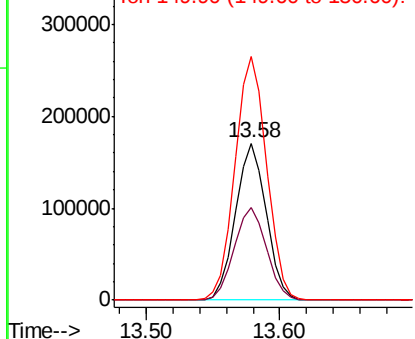


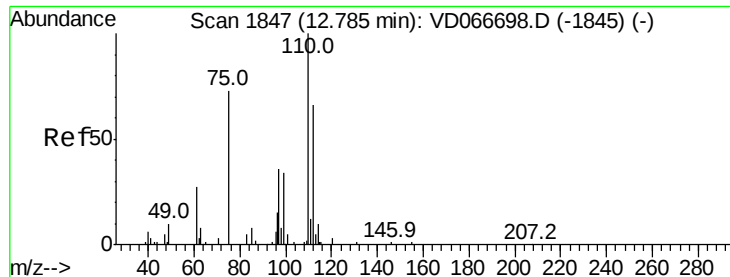
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

Tgt Ion:152 Resp: 272192
Ion Ratio Lower Upper
152 100
115 62.0 30.5 91.5
150 160.1 0.0 344.6



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: 66.927 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

Instrument :

MSVOA_D

ClientSampleId :

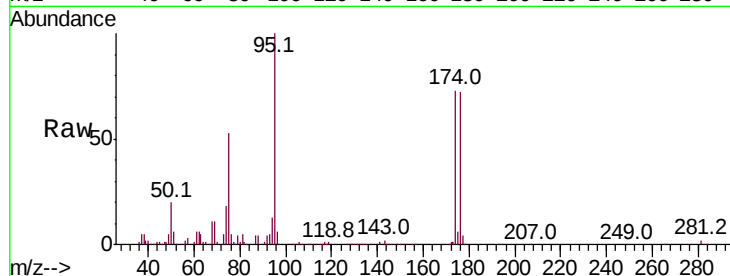
PAV-B36-091620-14-15

Tot Ion: 75 Resp: 155931

Ion Ratio Lower Upper

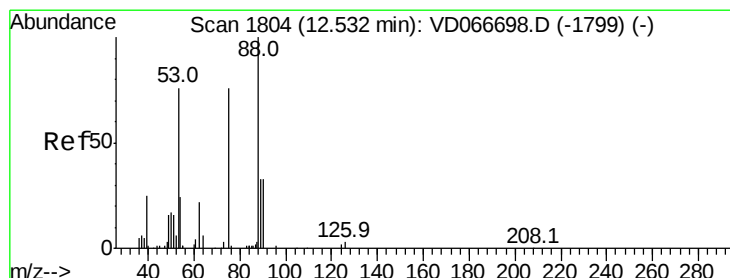
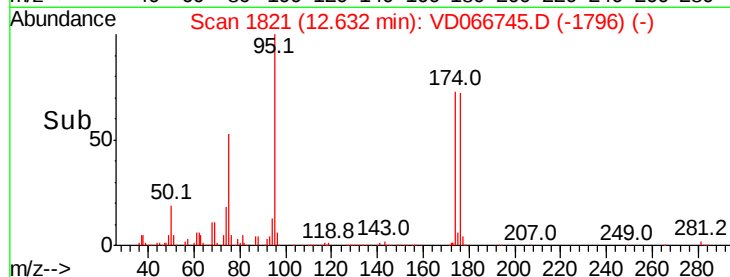
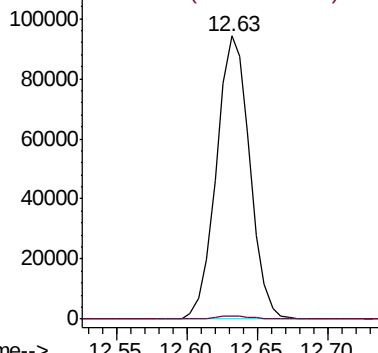
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 144.441 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

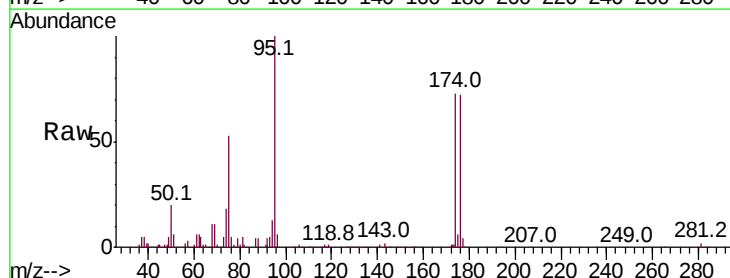
Tgt Ion: 75 Resp: 155931

Ion Ratio Lower Upper

75 100

53 0.0 82.2 123.4#

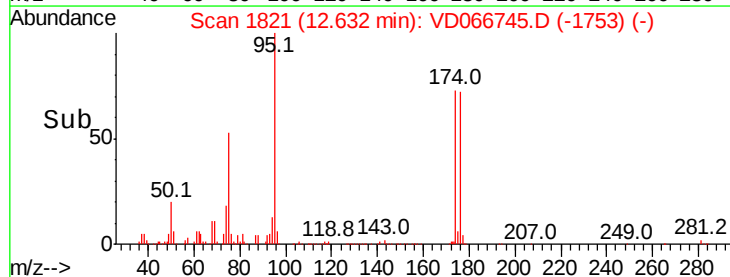
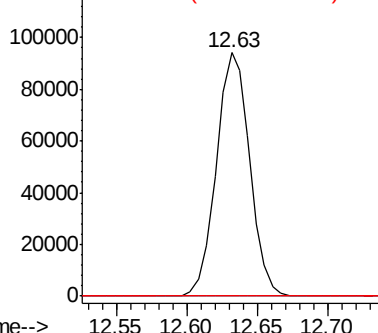
89 0.0 39.6 59.4#

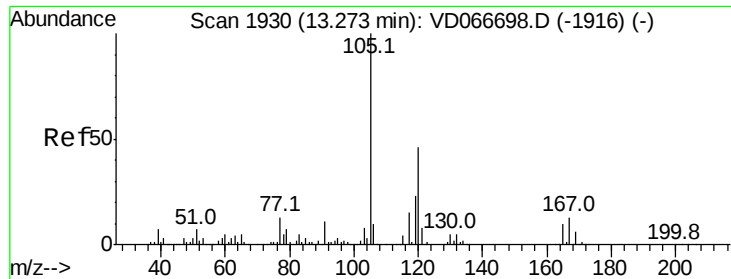


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

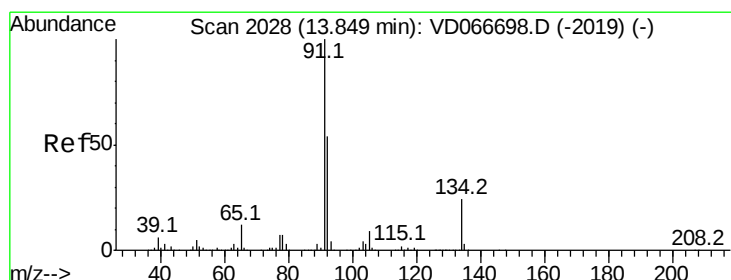
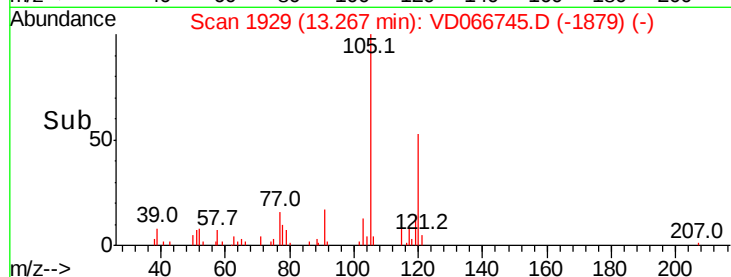
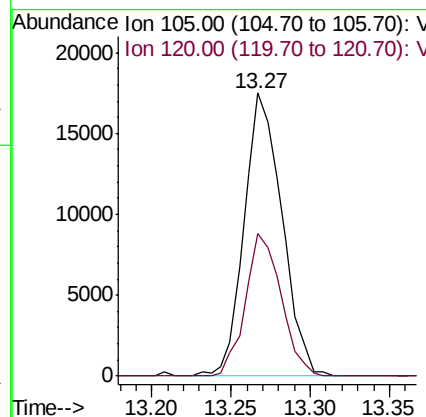
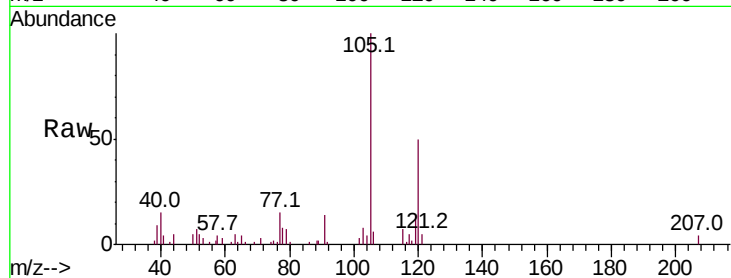




#84
 1,2,4-Trimethylbenzene
 Concen: 1.690 ug/l
 RT: 13.27 min Scan# 1929
 Delta R.T. -0.01 min
 Lab File: VD066745.D
 Acq: 17 Sep 2020 15:33

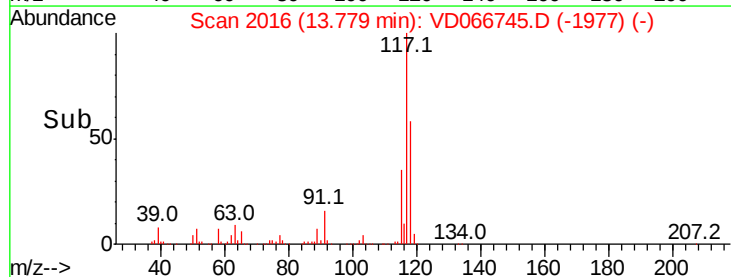
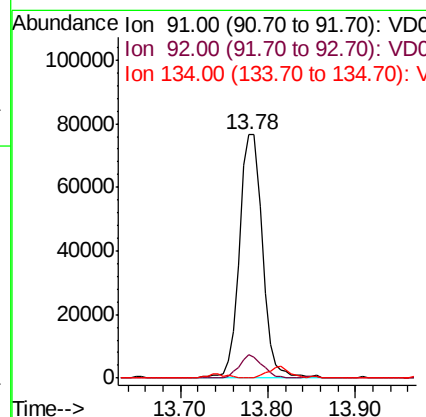
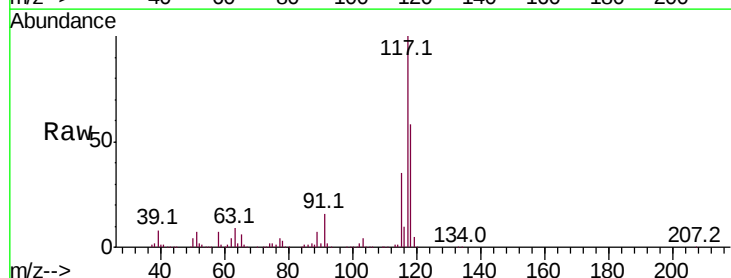
Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B36-091620-14-15

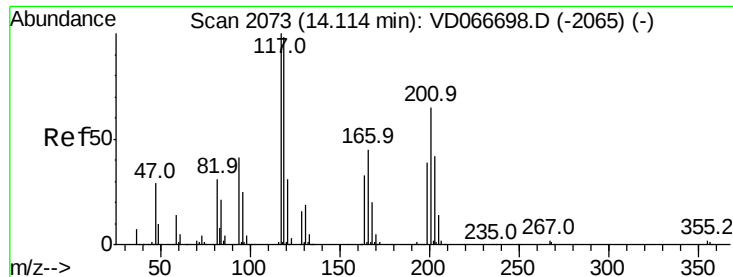
Tot Ion:105 Resp: 29016
 Ion Ratio Lower Upper
 105 100
 120 47.7 22.4 67.2



#89
 n-Butylbenzene
 Concen: 7.755 ug/l
 RT: 13.78 min Scan# 2016
 Delta R.T. -0.07 min
 Lab File: VD066745.D
 Acq: 17 Sep 2020 15:33

Tgt Ion: 91 Resp: 136094
 Ion Ratio Lower Upper
 91 100
 92 9.6 27.0 81.0#
 134 0.0 12.4 37.0#

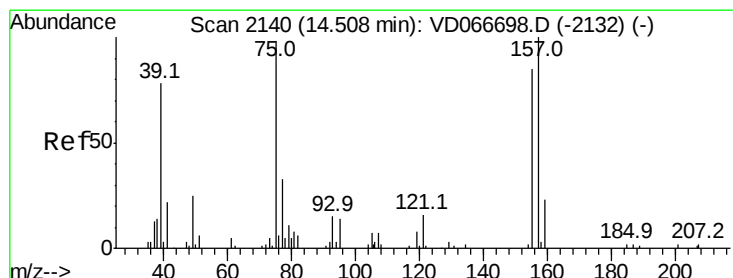
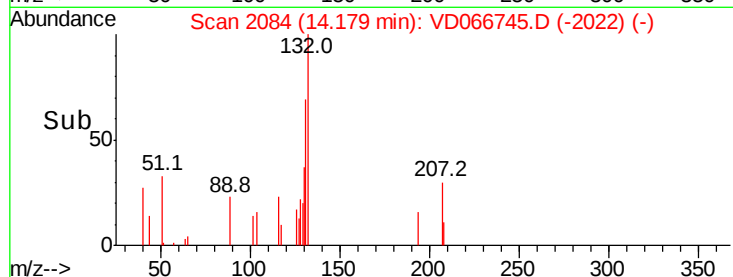
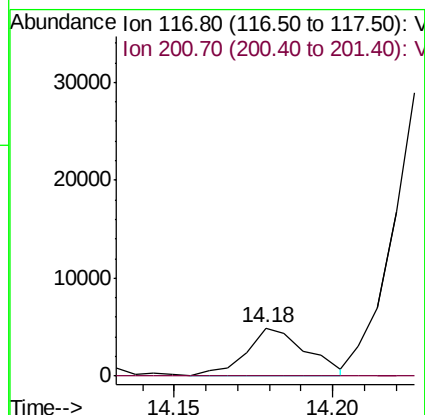
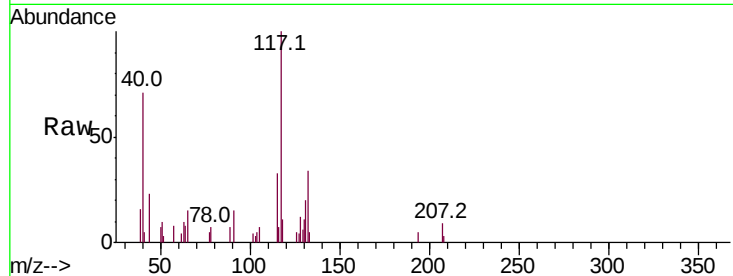




#90
Hexachloroethane
Concen: 1.721 ug/l
RT: 14.18 min Scan# 2084
Delta R.T. 0.06 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

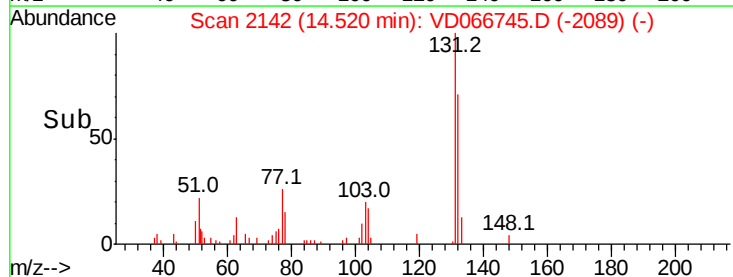
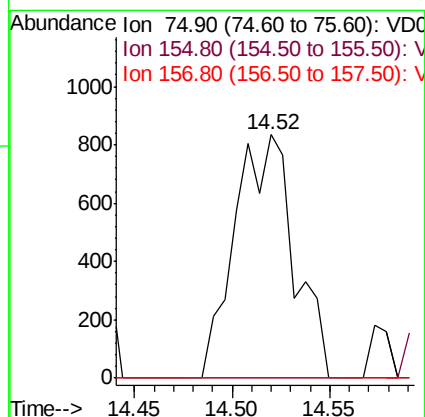
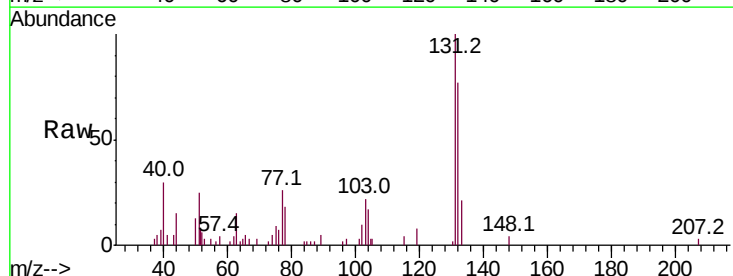
Instrument :
MSVOA_D
ClientSampleId :
PAV-B36-091620-14-15

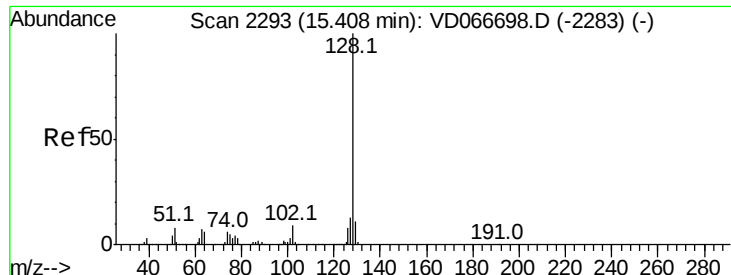
Tot Ion:117 Resp: 6526
Ion Ratio Lower Upper
117 100
201 0.0 33.1 99.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 3.146 ug/l
RT: 14.52 min Scan# 2142
Delta R.T. 0.01 min
Lab File: VD066745.D
Acq: 17 Sep 2020 15:33

Tgt Ion: 75 Resp: 1756
Ion Ratio Lower Upper
75 100
155 0.0 38.9 116.7#
157 0.0 46.4 139.2#





#95

Naphthalene

Concen: 978.538 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD066745.D

Acq: 17 Sep 2020 15:33

Instrument :

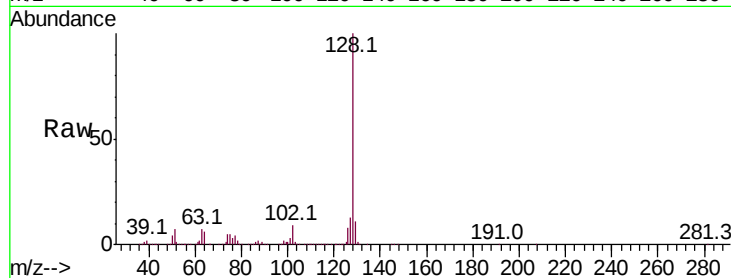
MSVOA_D

ClientSampleId :

PAV-B36-091620-14-15

Tot Ion:128 Resp: 7961214

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	11.1	8.6	12.8



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

