

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090420\
 Data File : VD066567.D
 Acq On : 04 Sep 2020 17:07
 Operator : VA/SY
 Sample : L3864-01
 Misc : 7.78G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-01-090320

Quant Time: Sep 05 03:48:42 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	7.98	168	416690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	732154	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	669462	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	290751	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	249626	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
35) Dibromofluoromethane	7.91	113	243750	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
50) Toluene-d8	10.34	98	887194	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.63	95	297548	50.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	60	Below Cal	#	46
5) Bromomethane	2.77	94	356	Below Cal	#	9
11) Tert butyl alcohol	5.23	59	1187	Below Cal	#	90
16) Acetone	4.16	43	13973	15.063	ug/l #	82
25) 2-Butanone	7.48	43	97292	78.131	ug/l #	51
29) Tetrahydrofuran	7.48	42	21845	28.168	ug/l #	35
31) Cyclohexane	7.97	56	12350	1.502	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	37982	4.985	ug/l #	51
37) Ethyl Acetate	7.48	43	141423	46.612	ug/l #	68
38) Carbon Tetrachloride	7.97	117	48786	6.058	ug/l #	17
40) Benzene	8.35	78	42539	2.038	ug/l	94
41) Methacrylonitrile	7.49	41	87392	59.504	ug/l #	43
67) Ethyl Benzene	11.74	91	31177	1.229	ug/l	100
76) 1,2,3-Trichloropropane	12.63	75	172108	61.550	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	172108	143.697	ug/l #	7
95) Naphthalene	15.41	128	56476	6.466	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066567.D

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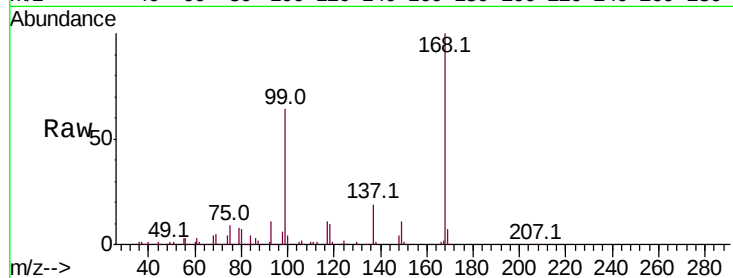
CL-01-090320

Tot Ion:168 Resp: 416690

Ion Ratio Lower Upper

168 100

99 64.1 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

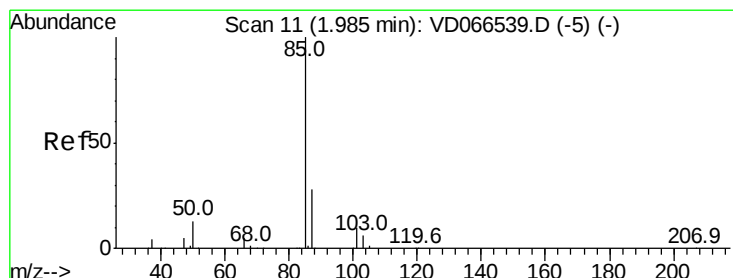
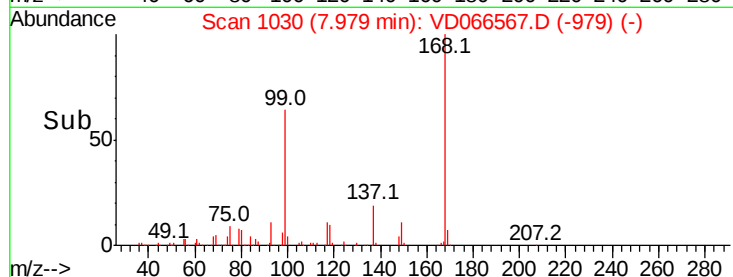
150000

100000

50000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066567.D

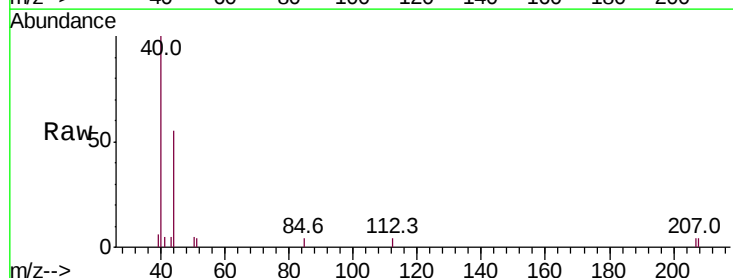
Acq: 04 Sep 2020 17:07

Tgt Ion: 85 Resp: 60

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

200

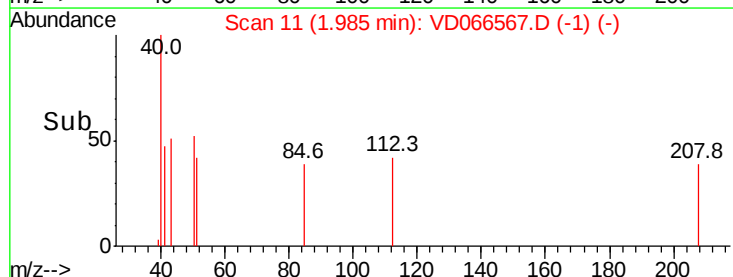
150

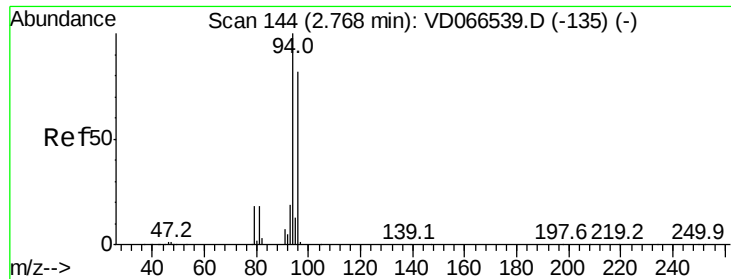
100

50

0

Time--> 1.97 1.98 1.99 2.00





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

Instrument :

MSVOA_D

ClientSampleId :

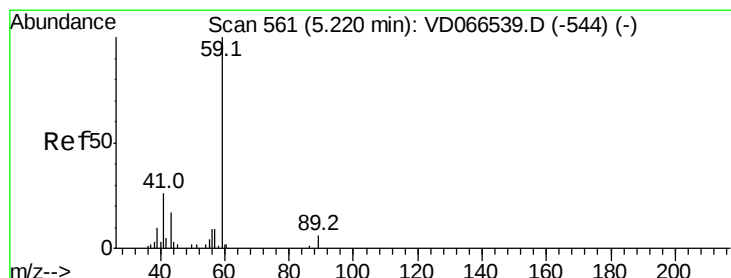
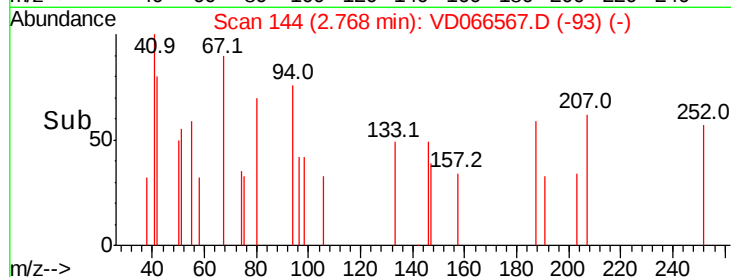
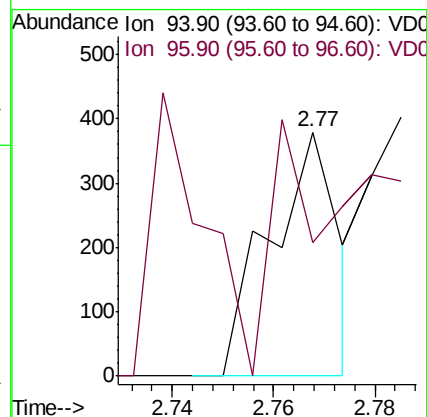
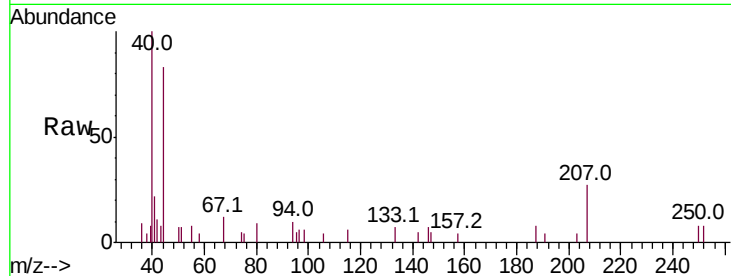
CL-01-090320

Tot Ion: 94 Resp: 356

Ion Ratio Lower Upper

94 100

96 0.0 65.2 97.8#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. 0.01 min

Lab File: VD066567.D

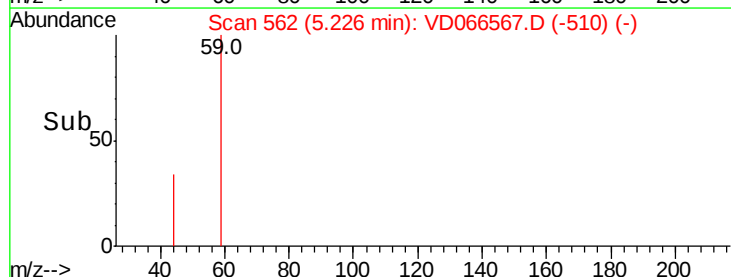
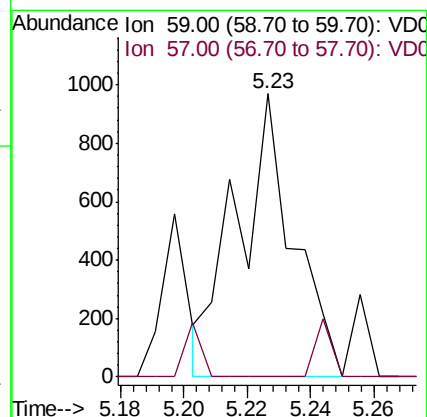
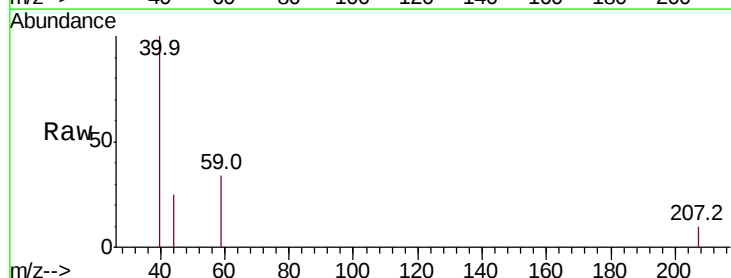
Acq: 04 Sep 2020 17:07

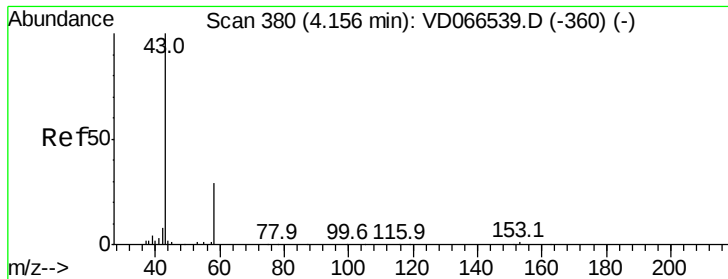
Tgt Ion: 59 Resp: 1187

Ion Ratio Lower Upper

59 100

57 5.9 7.6 11.4#





#16

Acetone

Concen: 15.063 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

Instrument :

MSVOA_D

ClientSampleId :

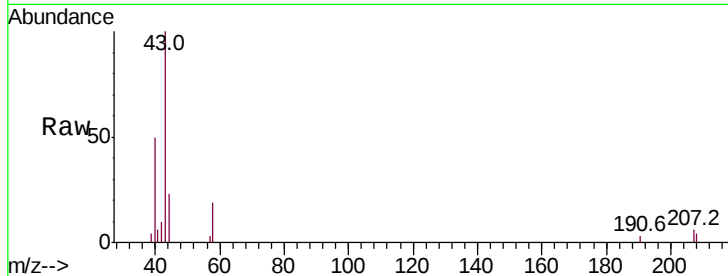
CL-01-090320

Tot Ion: 43 Resp: 13973

Ion Ratio Lower Upper

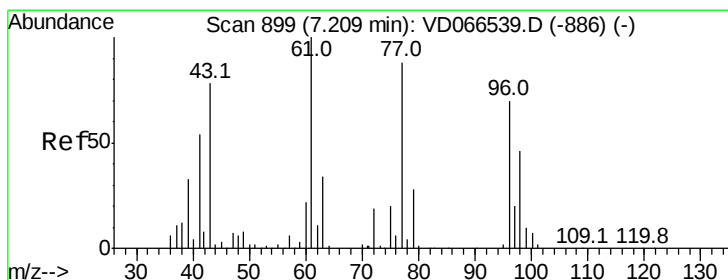
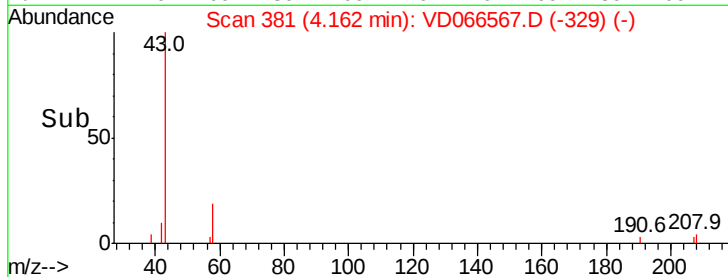
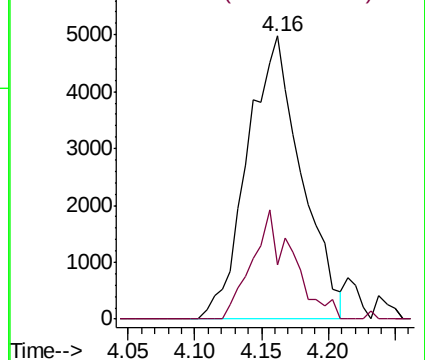
43 100

58 19.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 78.131 ug/l

RT: 7.48 min Scan# 945

Delta R.T. 0.27 min

Lab File: VD066567.D

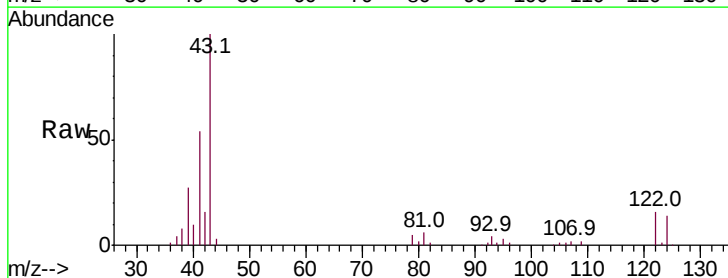
Acq: 04 Sep 2020 17:07

Tgt Ion: 43 Resp: 97292

Ion Ratio Lower Upper

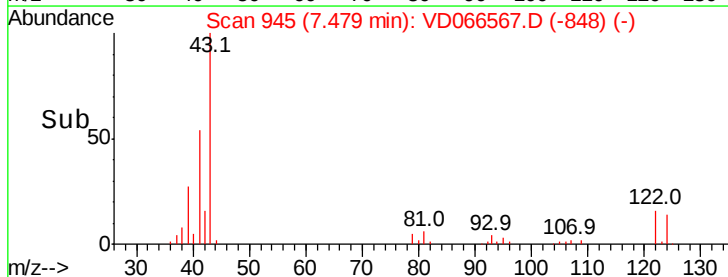
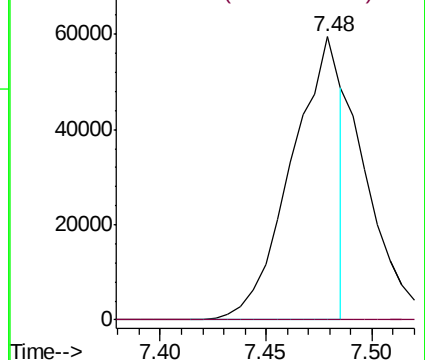
43 100

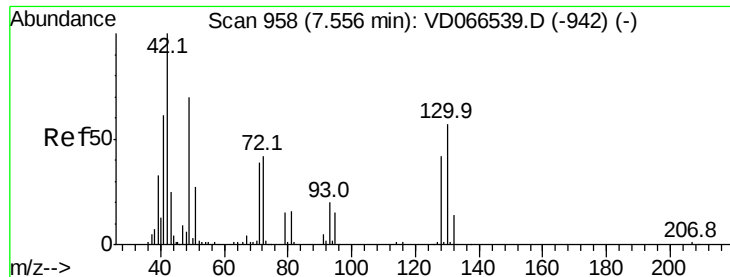
72 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

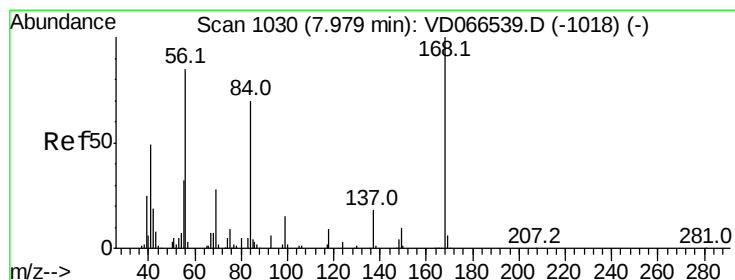
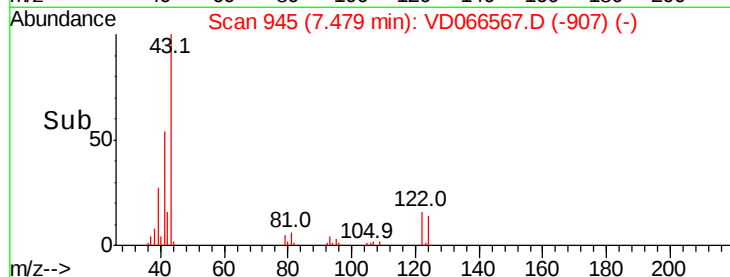
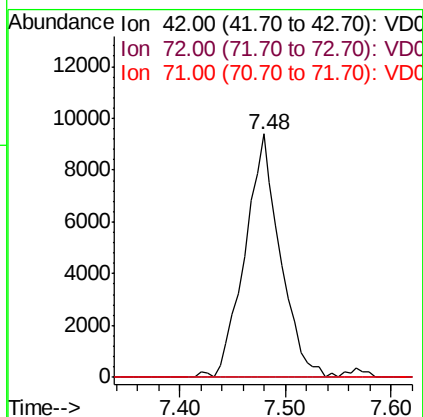
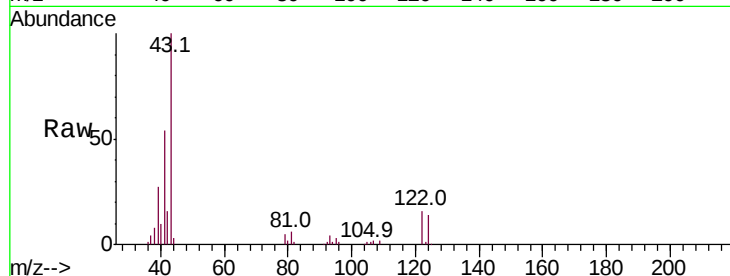




#29
Tetrahydrofuran
Concen: 28.168 ug/l
RT: 7.48 min Scan# 945
Delta R.T. -0.08 min
Lab File: VD066567.D
Acq: 04 Sep 2020 17:07

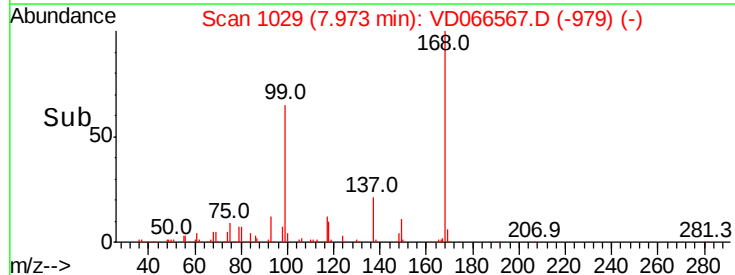
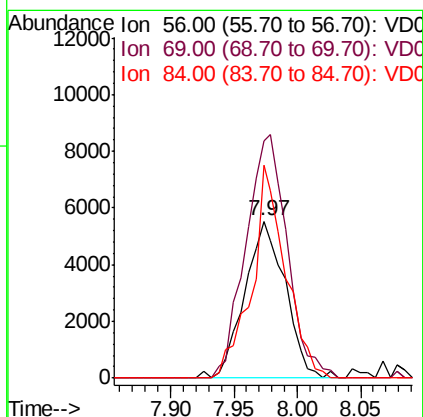
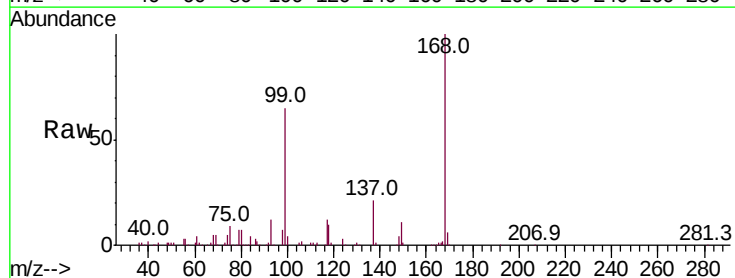
Instrument :
MSVOA_D
ClientSampleId :
CL-01-090320

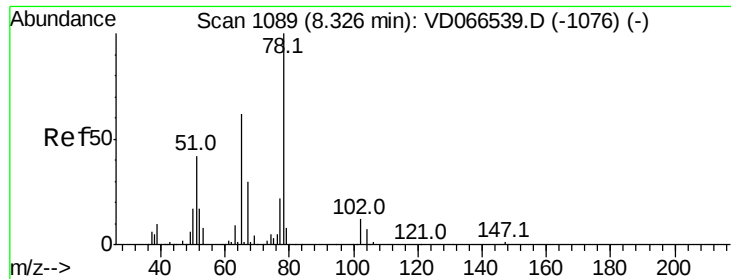
Tot Ion: 42 Resp: 21845
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.0#
71 0.0 31.9 47.9#



#31
Cyclohexane
Concen: 1.502 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066567.D
Acq: 04 Sep 2020 17:07

Tgt Ion: 56 Resp: 12350
Ion Ratio Lower Upper
56 100
69 151.2 26.3 39.5#
84 135.7 66.1 99.1#

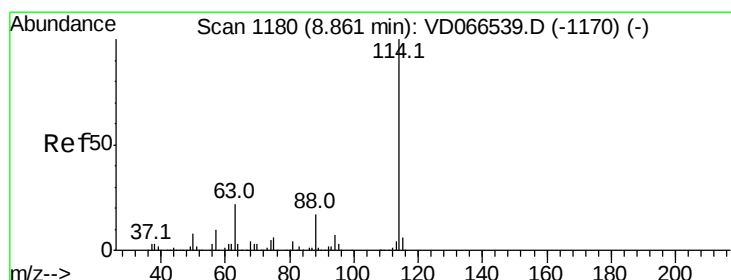
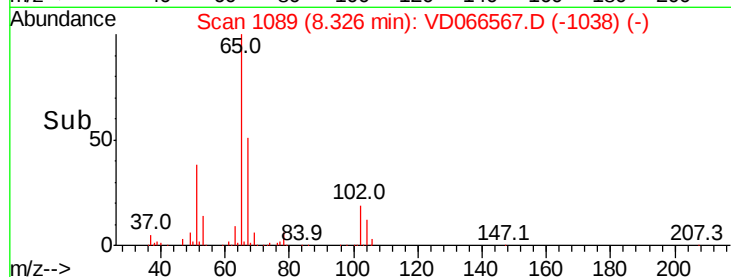
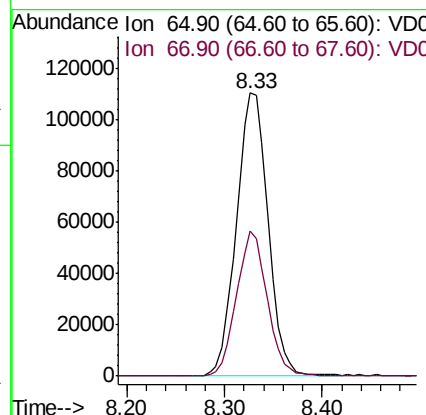
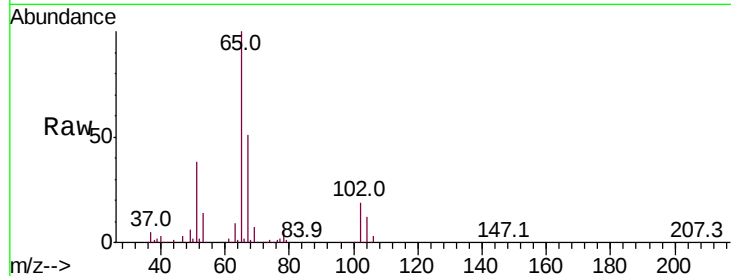




#33
 1,2-Dichloroethane-d4
 Concen: 49.514 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VD066567.D
 Acq: 04 Sep 2020 17:07

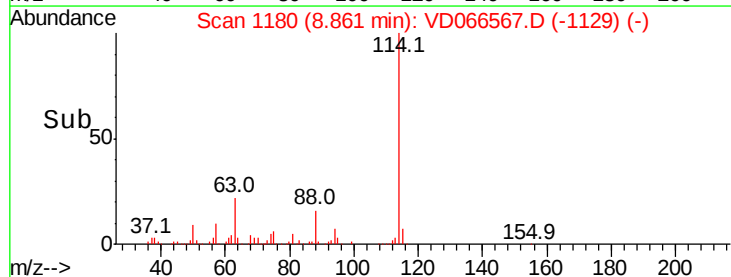
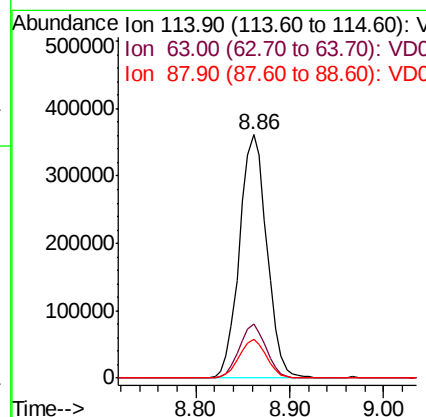
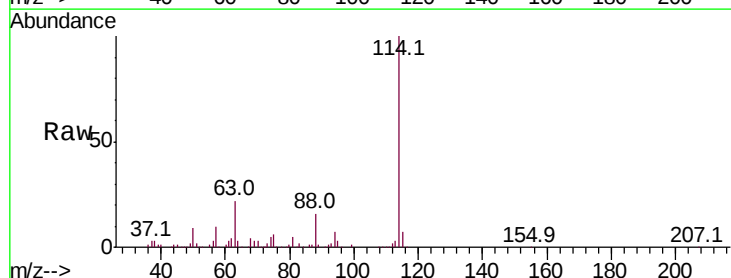
Instrument :
 MSVOA_D
 ClientSampleId :
 CL-01-090320

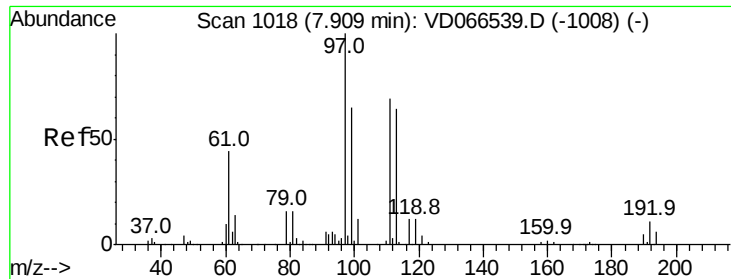
Tot Ion: 65 Resp: 249626
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066567.D
 Acq: 04 Sep 2020 17:07

Tgt Ion: 114 Resp: 732154
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.2
 88 15.8 0.0 33.2

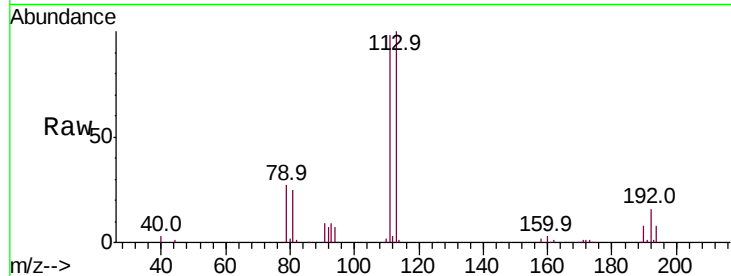




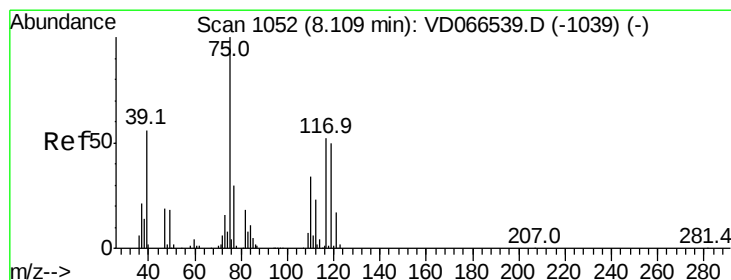
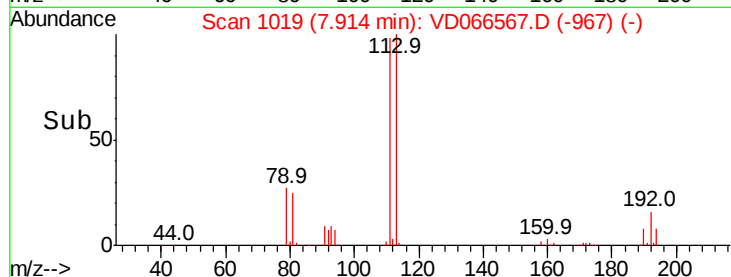
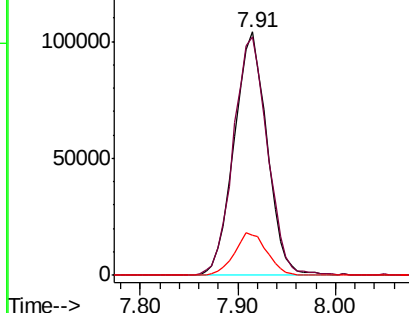
#35
 Dibromofluoromethane
 Concen: 49.350 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066567.D
 Acq: 04 Sep 2020 17:07

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-01-090320

Tot Ion:113 Resp: 243750
 Ion Ratio Lower Upper
 113 100
 111 101.5 83.2 124.8
 192 17.2 13.7 20.5

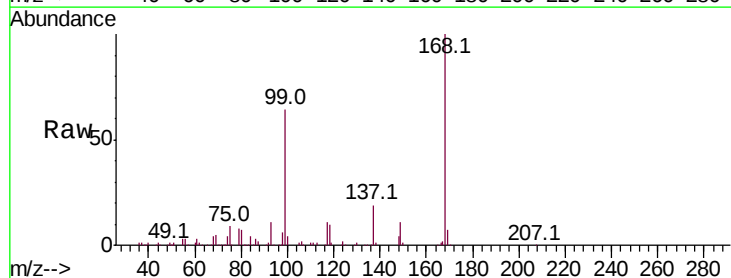


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

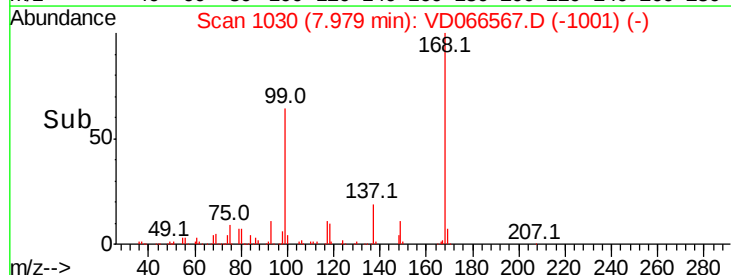
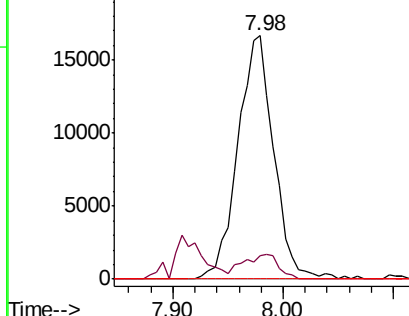


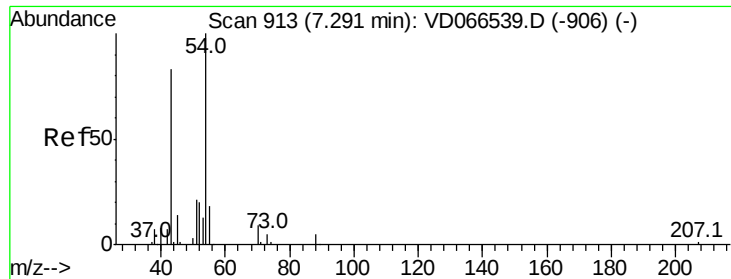
#36
 1,1-Dichloropropene
 Concen: 4.985 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD066567.D
 Acq: 04 Sep 2020 17:07

Tgt Ion: 75 Resp: 37982
 Ion Ratio Lower Upper
 75 100
 110 10.2 17.3 52.0#
 77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 46.612 ug/l

RT: 7.48 min Scan# 945

Delta R.T. 0.19 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

Instrument :

MSVOA_D

ClientSampleId :

CL-01-090320

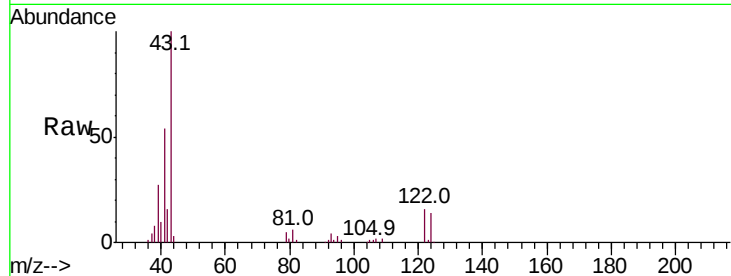
Tot Ion: 43 Resp: 141423

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.8#

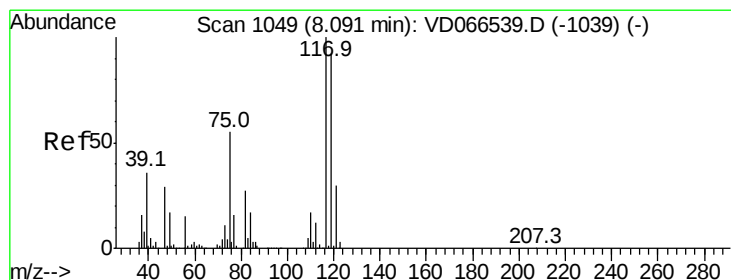
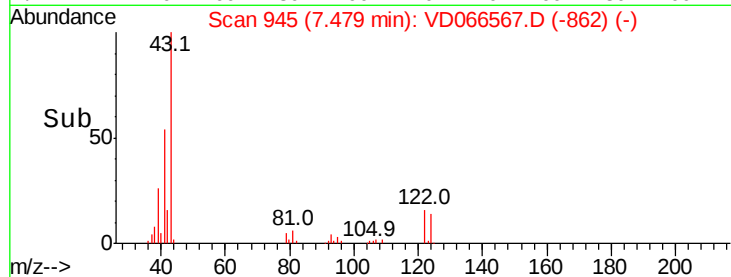
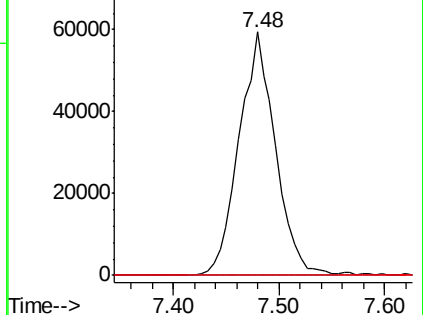
70 0.0 7.9 11.9#



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: 6.058 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

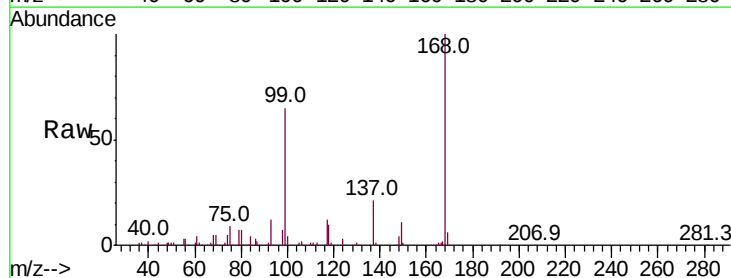
Tgt Ion: 117 Resp: 48786

Ion Ratio Lower Upper

117 100

119 4.3 73.9 110.9#

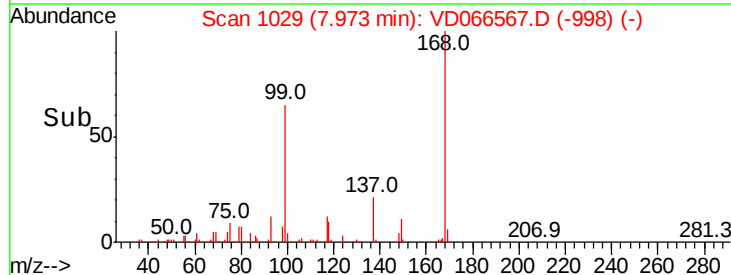
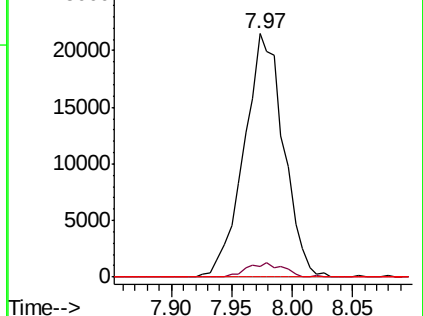
121 0.0 24.1 36.1#

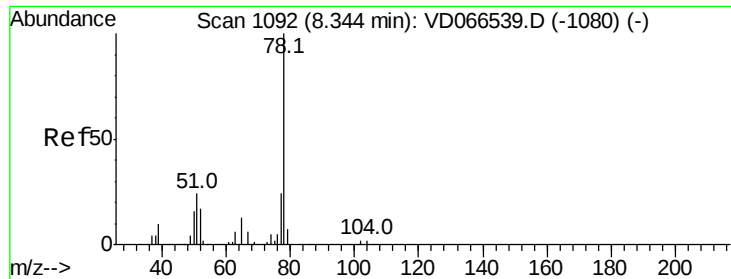


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 2.038 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

Instrument :

MSVOA_D

ClientSampleId :

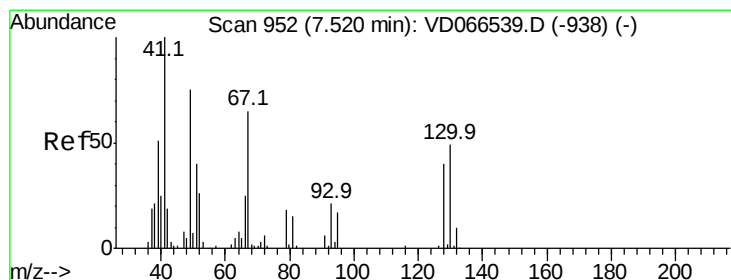
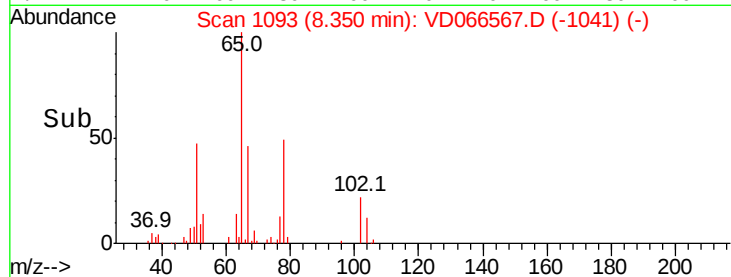
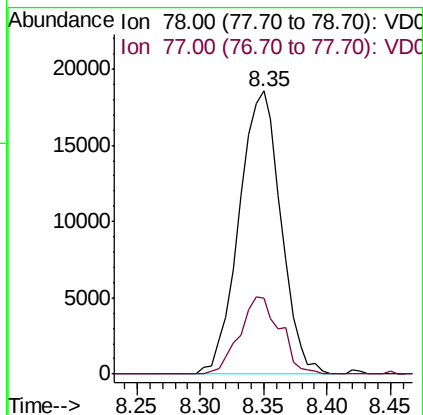
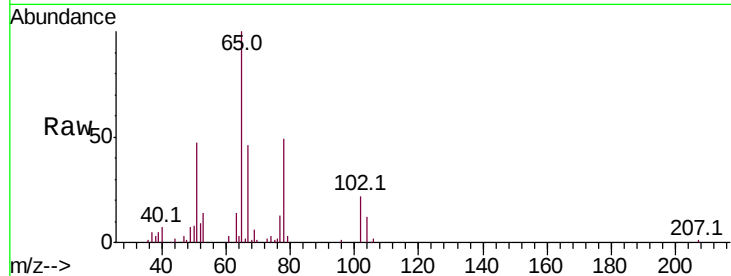
CL-01-090320

Tot Ion: 78 Resp: 42539

Ion Ratio Lower Upper

78 100

77 27.0 19.1 28.7



#41

Methacrylonitrile

Concen: 59.504 ug/l

RT: 7.49 min Scan# 946

Delta R.T. -0.04 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

Tgt Ion: 41 Resp: 87392

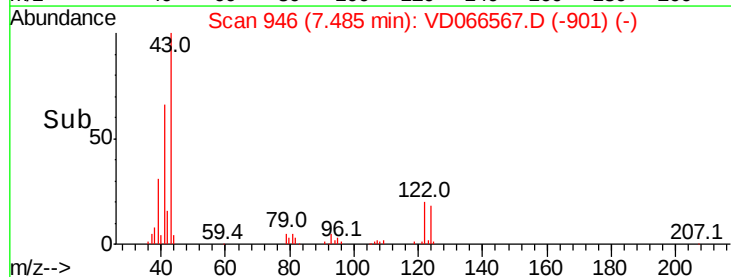
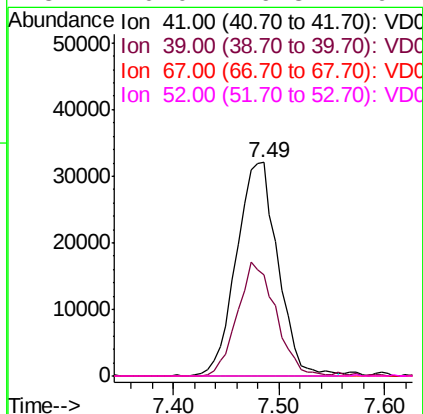
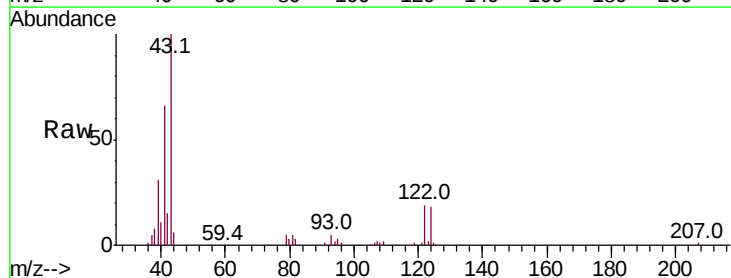
Ion Ratio Lower Upper

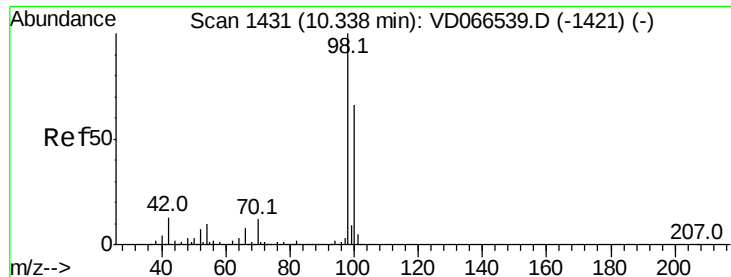
41 100

39 49.5 53.6 80.4#

67 0.0 59.2 88.8#

52 0.0 26.8 40.2#





#50

Toluene-d8

Concen: 50.256 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

Instrument :

MSVOA_D

ClientSampleId :

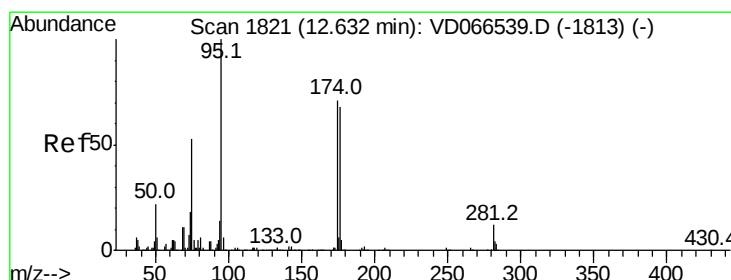
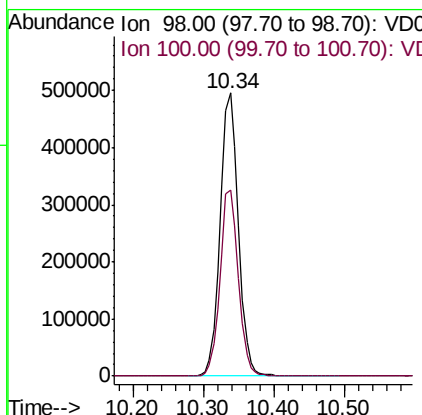
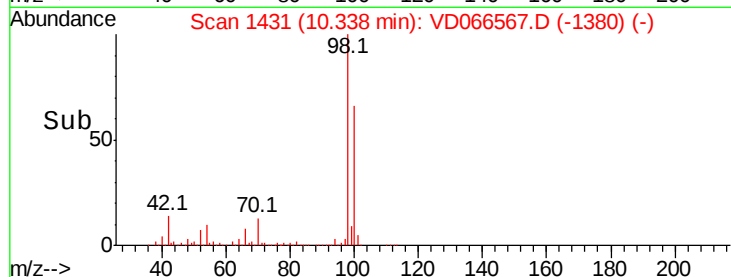
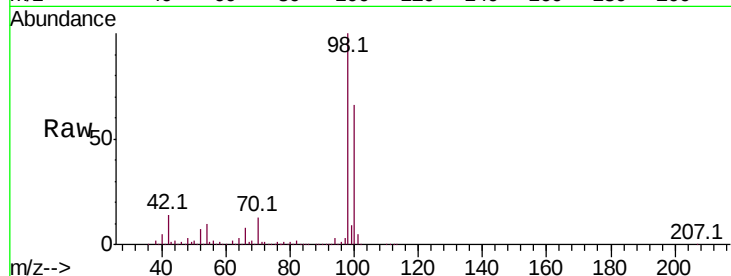
CL-01-090320

Tot Ion: 98 Resp: 887194

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 50.831 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

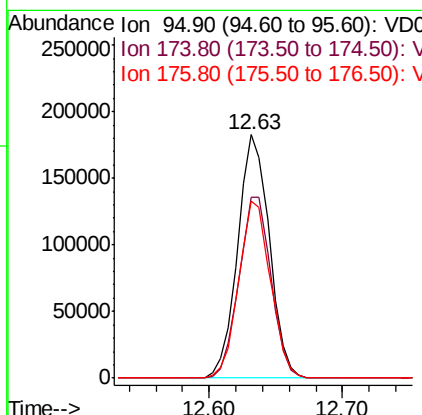
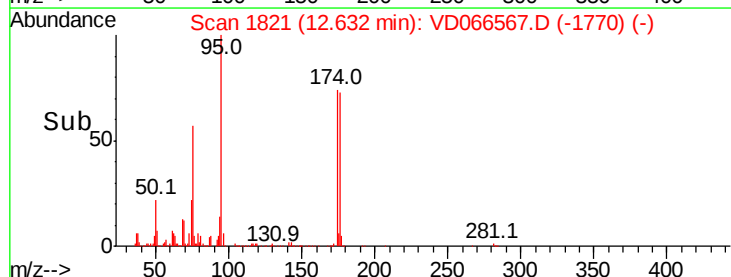
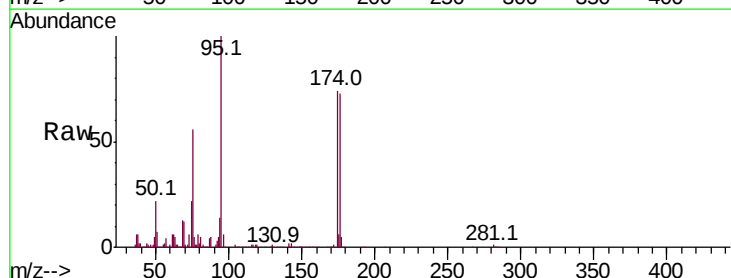
Tgt Ion: 95 Resp: 297548

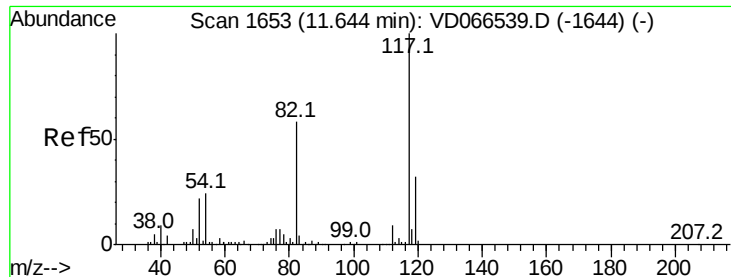
Ion Ratio Lower Upper

95 100

174 75.6 0.0 155.8

176 73.4 0.0 148.6

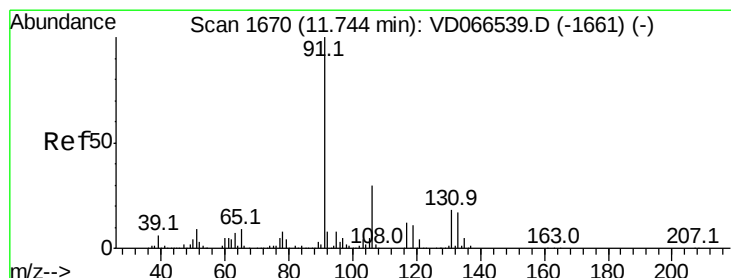
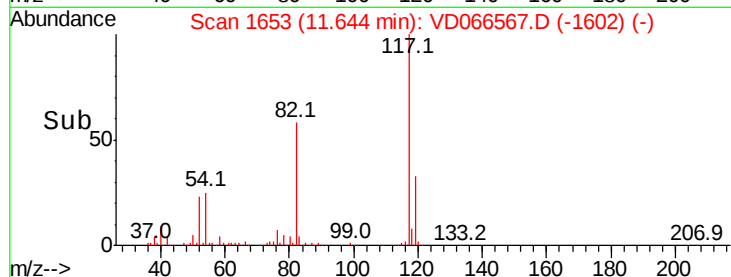
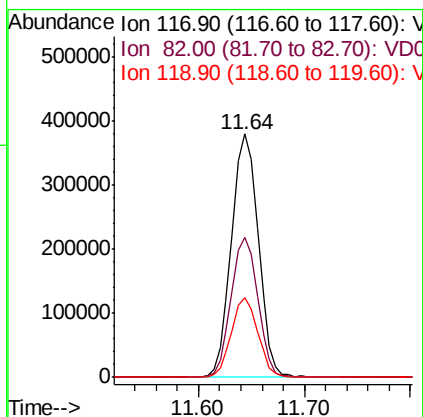
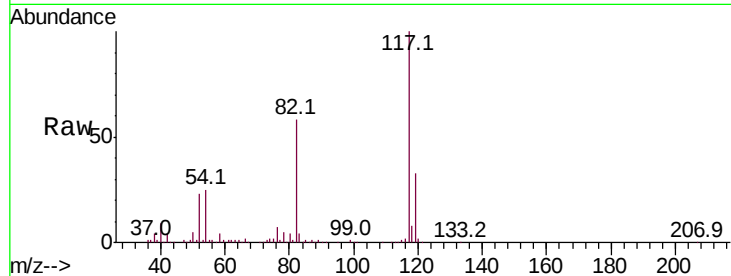




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066567.D
Acq: 04 Sep 2020 17:07

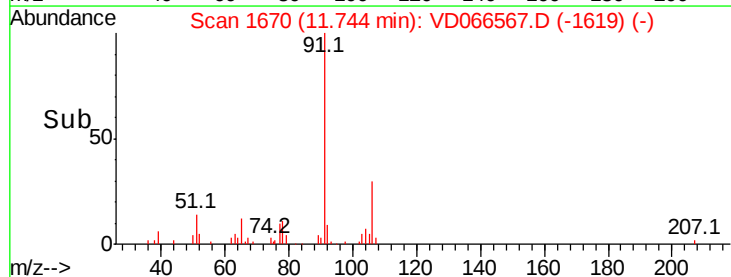
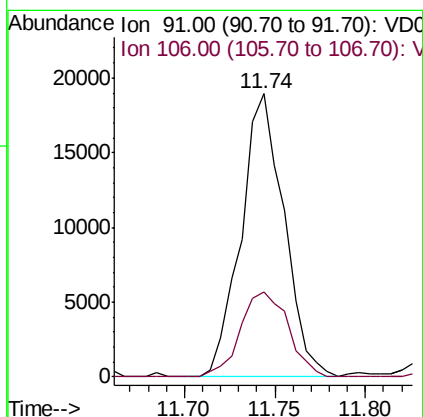
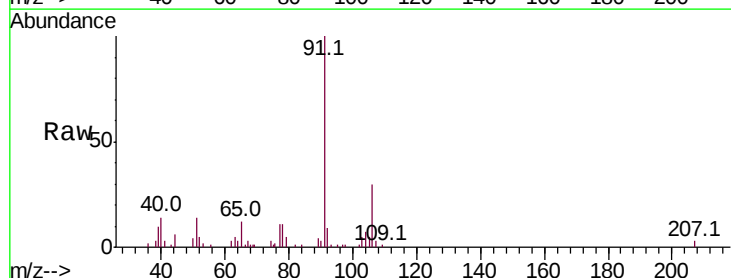
Instrument :
MSVOA_D
ClientSampleId :
CL-01-090320

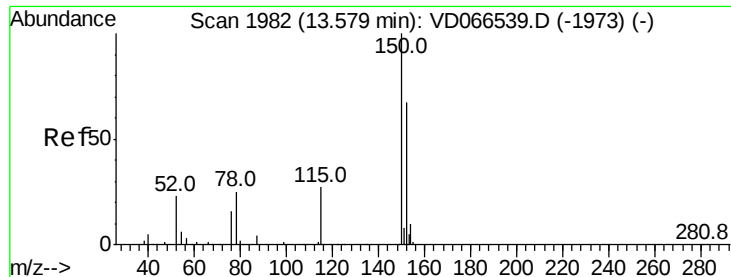
Tot Ion:117 Resp: 669462
Ion Ratio Lower Upper
117 100
82 57.5 46.2 69.2
119 32.9 25.8 38.8



#67
Ethyl Benzene
Concen: 1.229 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD066567.D
Acq: 04 Sep 2020 17:07

Tgt Ion: 91 Resp: 31177
Ion Ratio Lower Upper
91 100
106 30.2 24.3 36.5



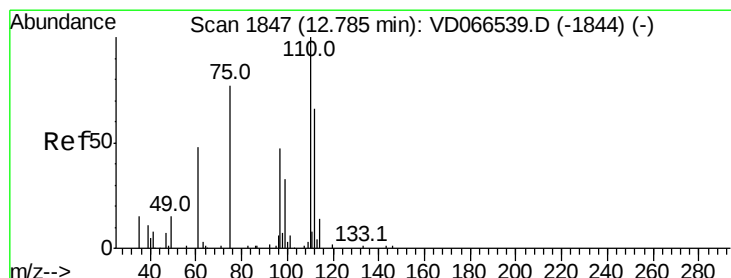
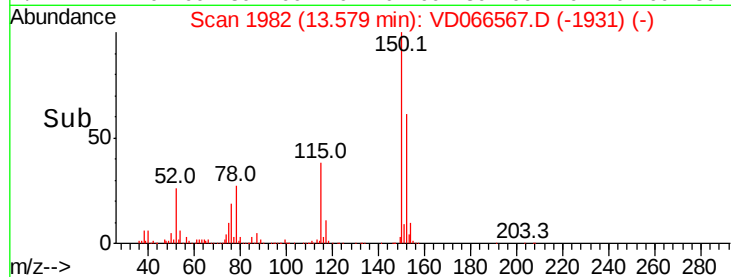
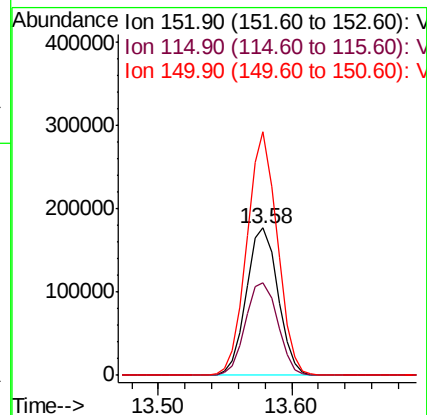
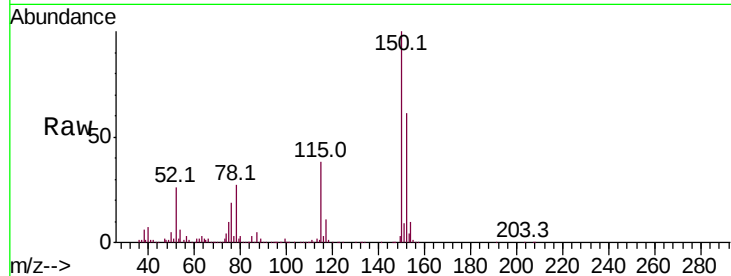


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066567.D
Acq: 04 Sep 2020 17:07

Instrument :
MSVOA_D
ClientSampleId :
CL-01-090320

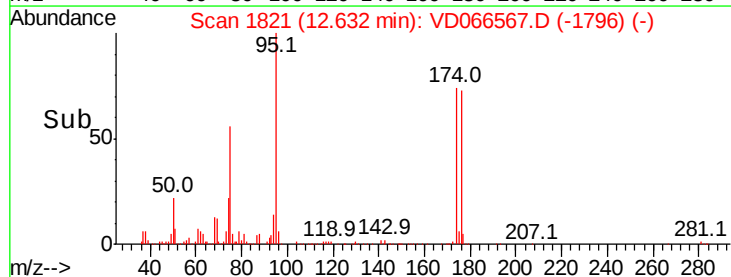
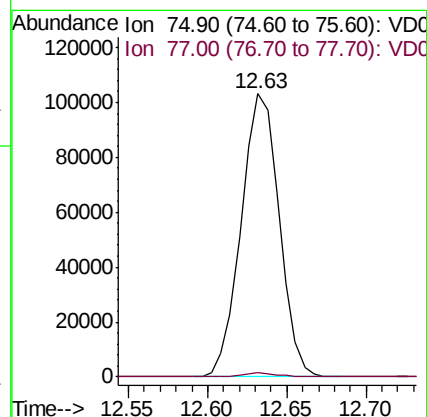
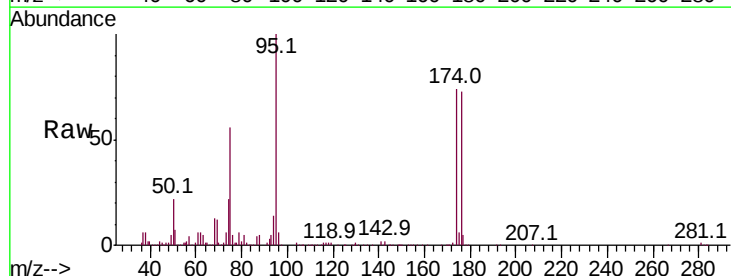
Tot Ion	Ratio	Lower	Upper
152	100		
115	64.4	30.4	91.2
150	157.7	0.0	345.8

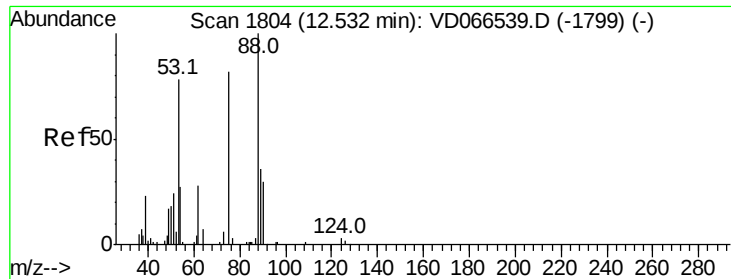


#76

1,2,3-Trichloropropane
Concen: 61.550 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.15 min
Lab File: VD066567.D
Acq: 04 Sep 2020 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 143.697 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

Instrument :

MSVOA_D

ClientSampleId :

CL-01-090320

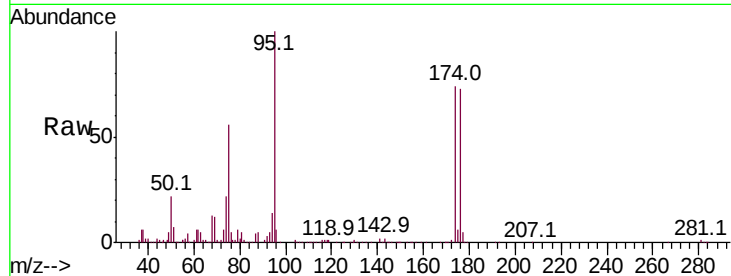
Tot Ion: 75 Resp: 172108

Ion Ratio Lower Upper

75 100

53 0.3 87.0 130.4#

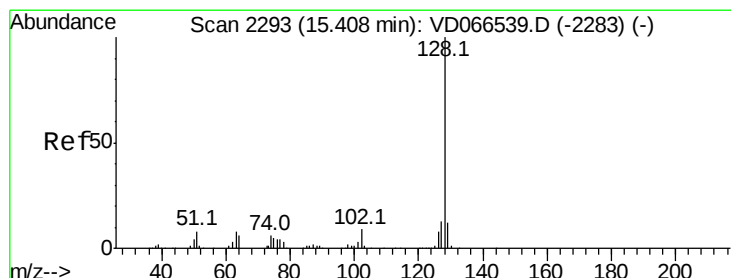
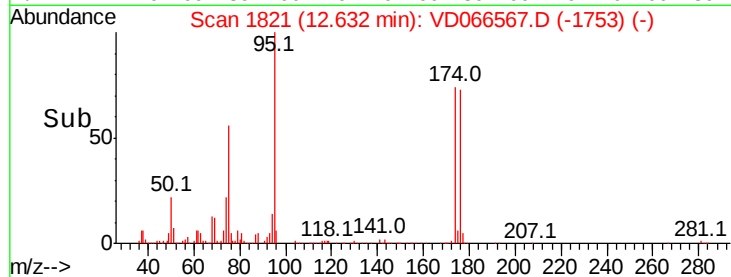
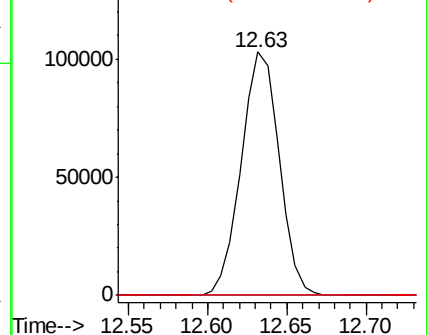
89 0.0 37.1 55.7#



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



#95

Naphthalene

Concen: 6.466 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD066567.D

Acq: 04 Sep 2020 17:07

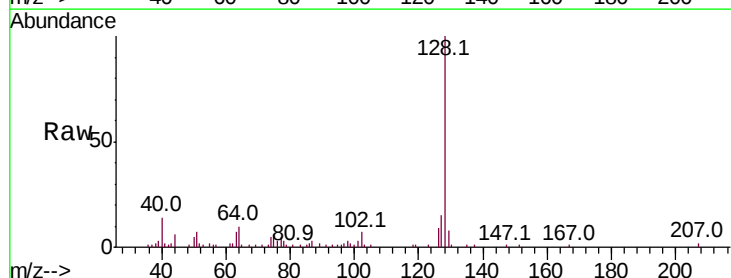
Tgt Ion: 128 Resp: 56476

Ion Ratio Lower Upper

128 100

127 16.0 10.7 16.1

129 11.0 9.1 13.7



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

