

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067322.D
 Acq On : 20 Oct 2020 14:23
 Operator : VA/SY
 Sample : L4436-04
 Misc : 12.21G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 34A

Quant Time: Oct 21 01:50:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

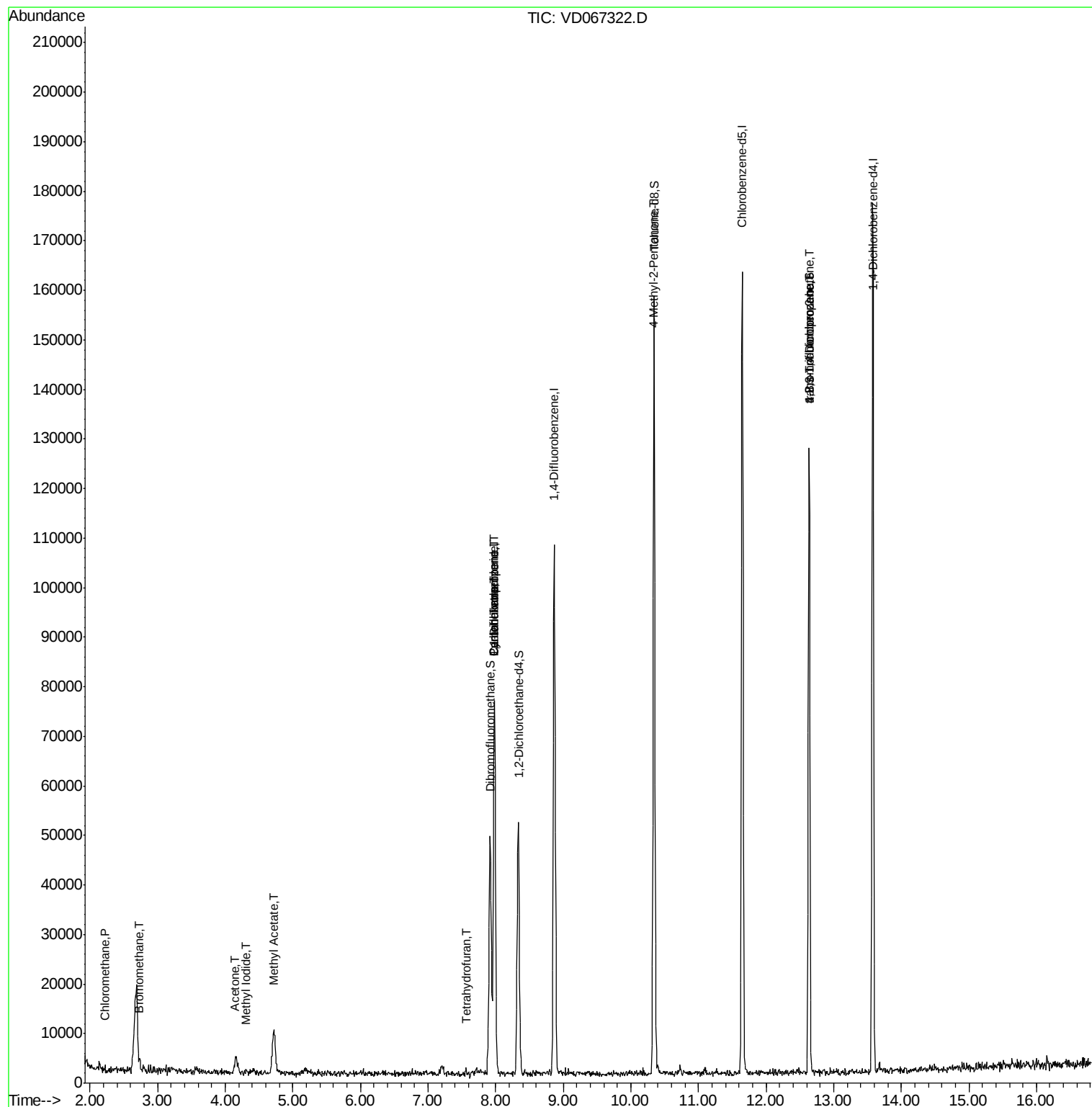
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	55322	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	90879	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	99134	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	48802	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	44625	80.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	161.04%	
35) Dibromofluoromethane	7.92	113	34687	57.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.70%	
50) Toluene-d8	10.34	98	111830	51.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	12.64	95	42007	55.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.40%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.21	50	374	1.074	ug/l	96
5) Bromomethane	2.73	94	1044	1.656	ug/l #	66
10) Methyl Iodide	4.30	142	760	1.612	ug/l #	82
11) Tert butyl alcohol	5.26	59	208	Below Cal	#	81
16) Acetone	4.15	43	6238	80.364	ug/l	95
18) Methyl Acetate	4.71	43	17319	97.822	ug/l	97
20) Methylene Chloride	4.98	84	71	Below Cal	#	16
29) Tetrahydrofuran	7.56	42	245	4.981	ug/l #	43
31) Cyclohexane	7.97	56	969	1.518	ug/l #	78
36) 1,1-Dichloropropene	7.98	75	4192	5.442	ug/l #	43
38) Carbon Tetrachloride	7.98	117	6427	6.528	ug/l #	17
51) 4-Methyl-2-Pentanone	10.33	43	239	1.066	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	21540	63.682	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	21540	144.411	ug/l #	10

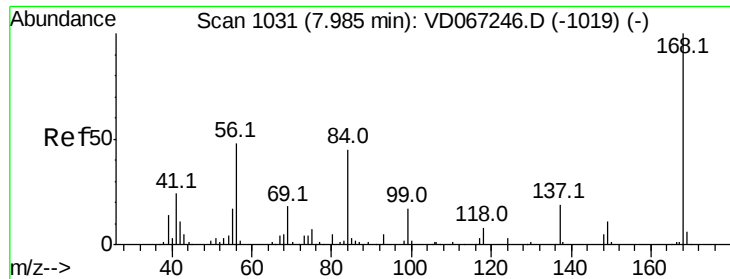
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102020\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

MSVOA_D

ClientSampleId :

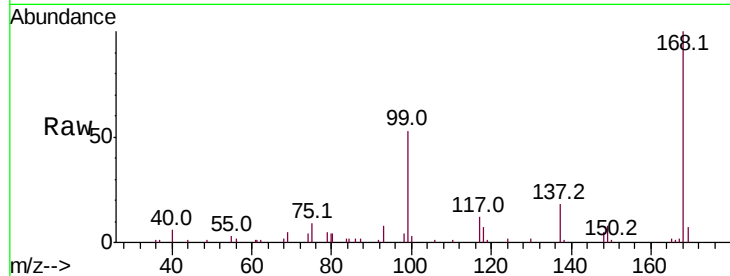
34A

Tot Ion:168 Resp: 55322

Ion Ratio Lower Upper

168 100

99 53.5 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

25000

20000

15000

10000

5000

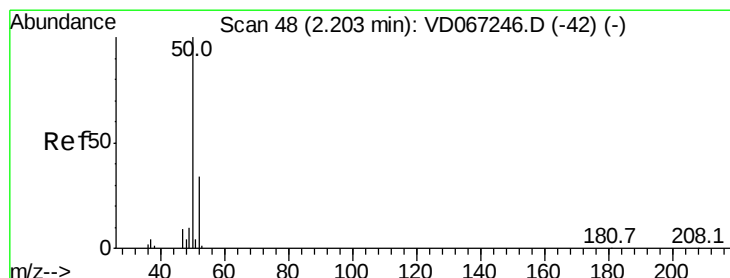
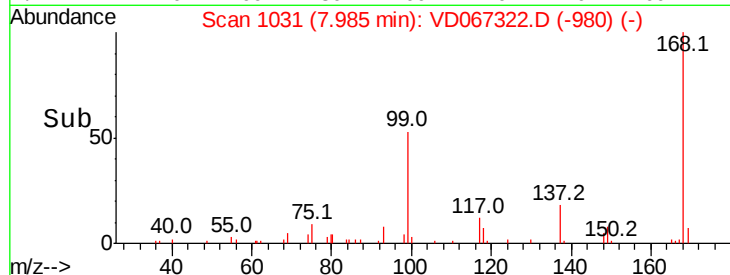
0

7.90

8.00

8.10

Time-->



#3

Chloromethane

Concen: 1.074 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD067322.D

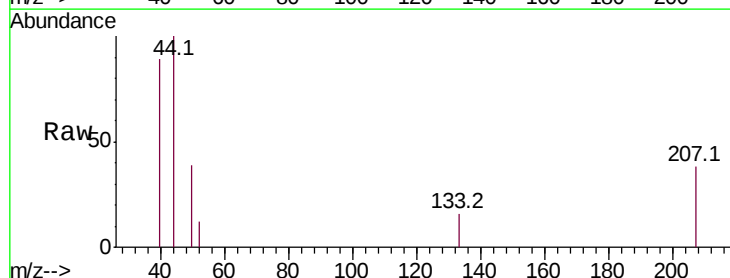
Acq: 20 Oct 2020 14:23

Tgt Ion: 50 Resp: 374

Ion Ratio Lower Upper

50 100

52 31.5 27.1 40.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

500

400

300

200

100

0

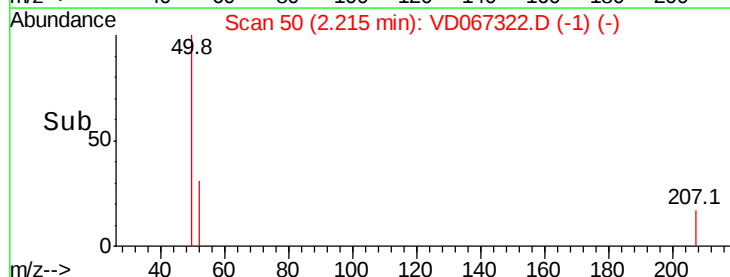
2.18

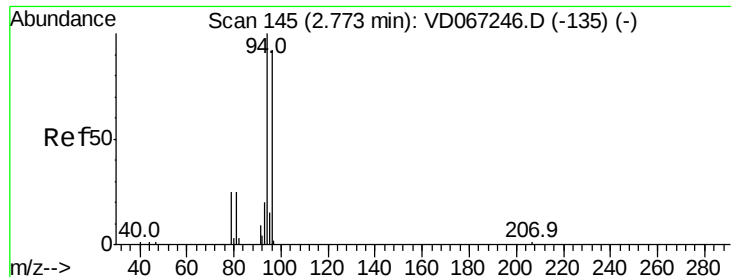
2.20

2.22

2.24

Time-->





#5

Bromomethane

Concen: 1.656 ug/l

RT: 2.73 min Scan# 138

Delta R.T. -0.04 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

MSVOA_D

ClientSampled :

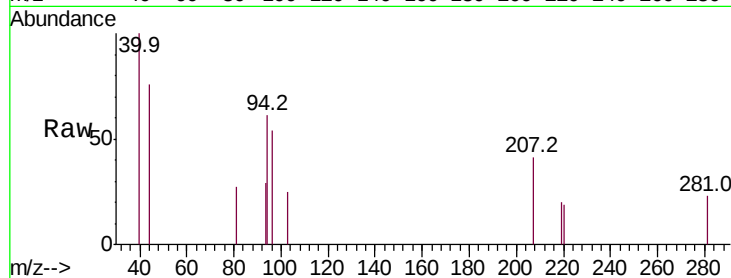
34A

Tot Ion: 94 Resp: 1044

Ion Ratio Lower Upper

94 100

96 60.0 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.73

2.75

Time-->

Abundance

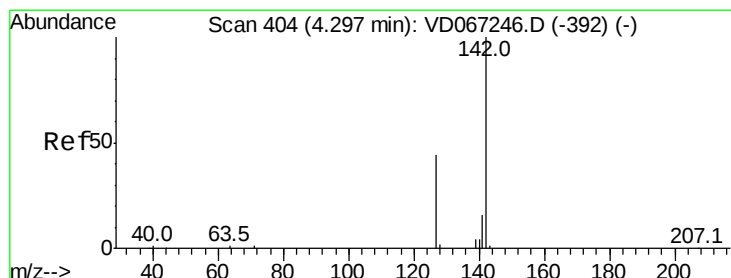
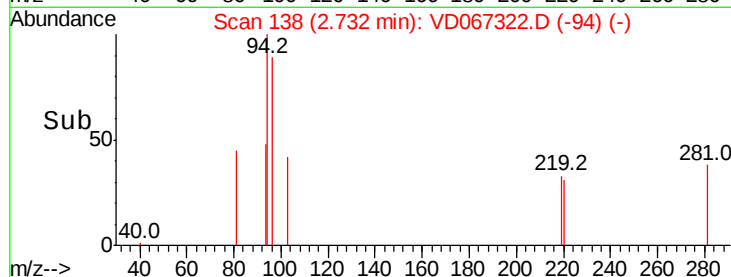
Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.73

2.75

Time-->



#10

Methyl Iodide

Concen: 1.612 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

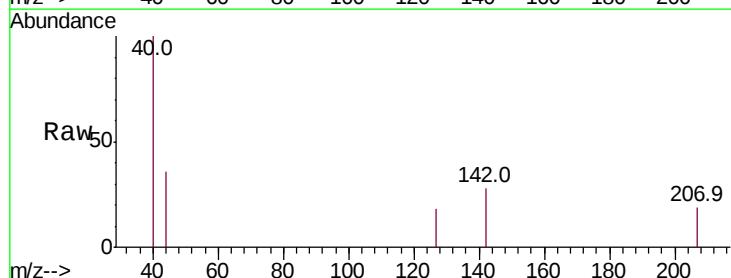
Tgt Ion:142 Resp: 760

Ion Ratio Lower Upper

142 100

127 56.6 38.4 57.6

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

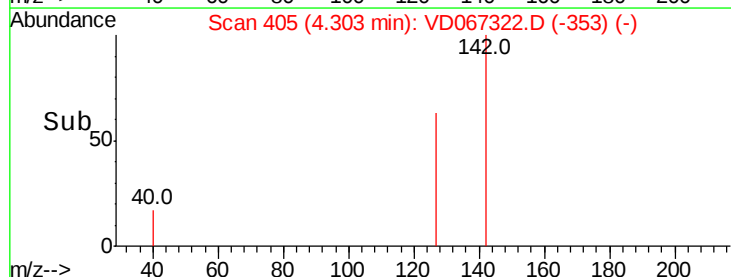
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

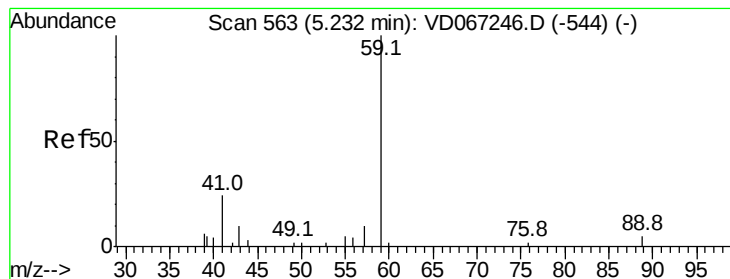
4.30

4.32

Time-->



Time-->

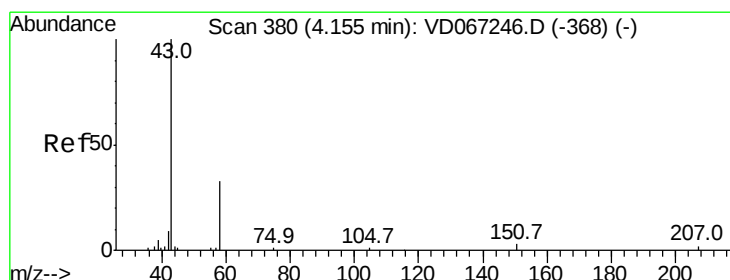
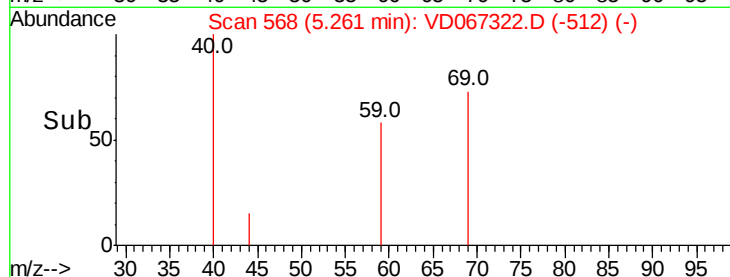
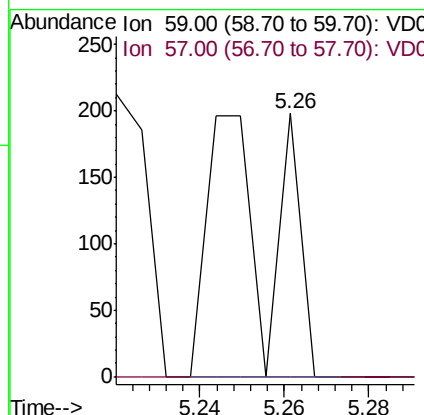
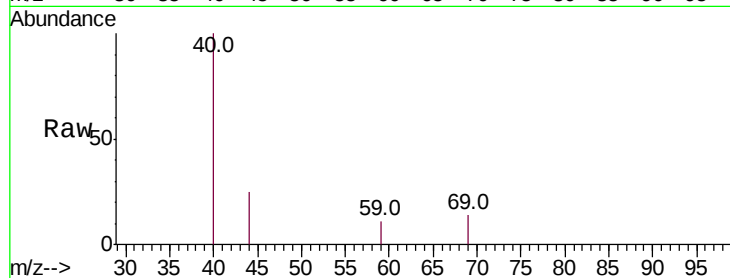


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.26 min Scan# 568
 Delta R.T. 0.03 min
 Lab File: VD067322.D
 Acq: 20 Oct 2020 14:23

Instrument :
 MSVOA_D
 ClientSampleId :
 34A

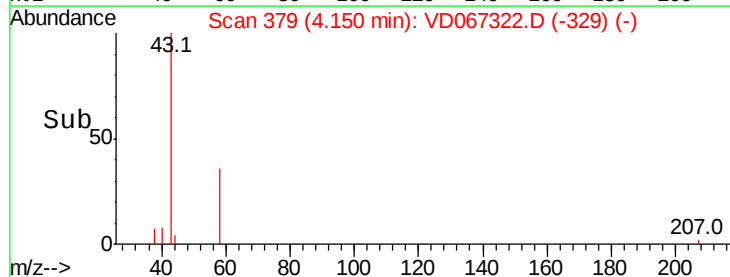
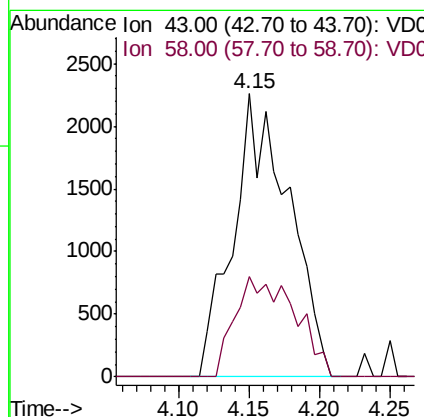
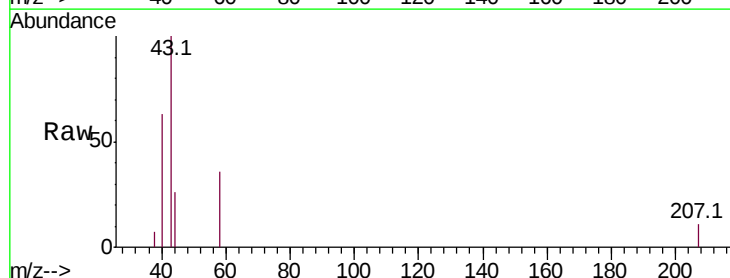
Tot Ion: 59 Resp: 208
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.1 7.7#

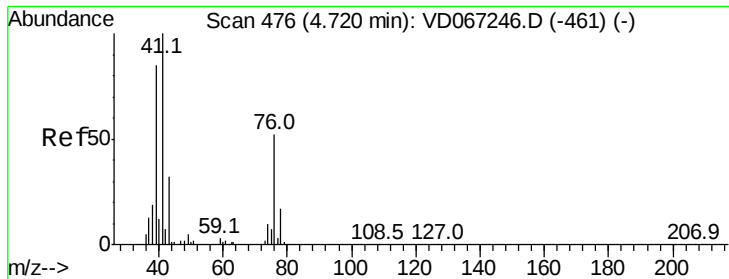


#16

Acetone
 Concen: 80.364 ug/l
 RT: 4.15 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VD067322.D
 Acq: 20 Oct 2020 14:23

Tgt Ion: 43 Resp: 6238
 Ion Ratio Lower Upper
 43 100
 58 35.5 26.1 39.1

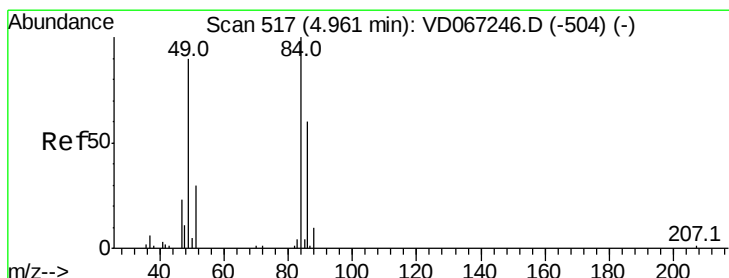
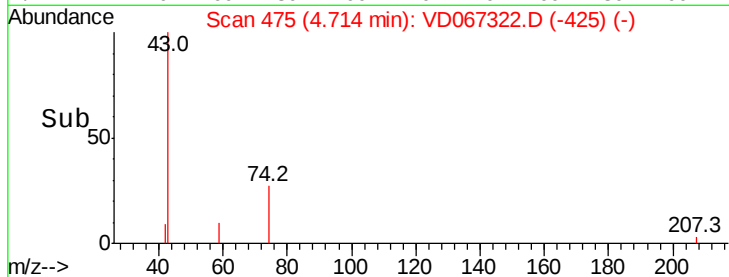
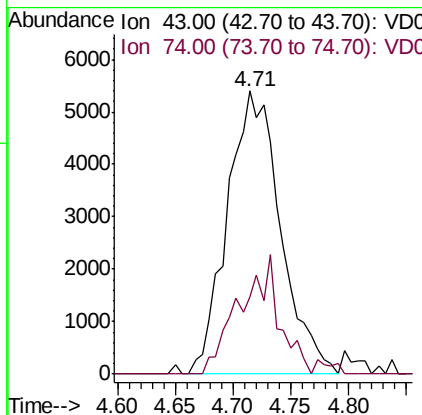
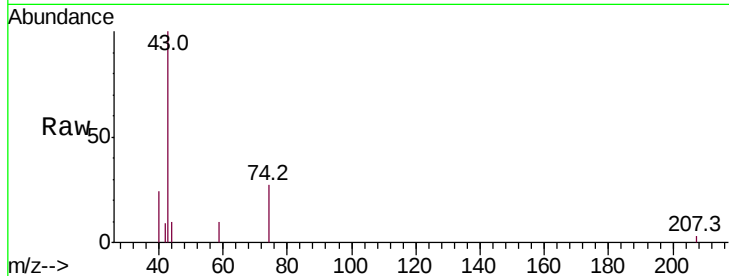




#18
Methyl Acetate
Concen: 97.822 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD067322.D
Acq: 20 Oct 2020 14:23

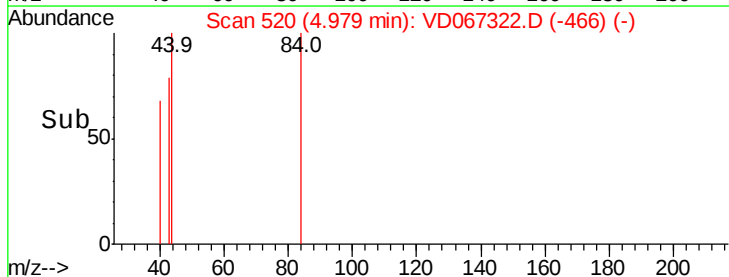
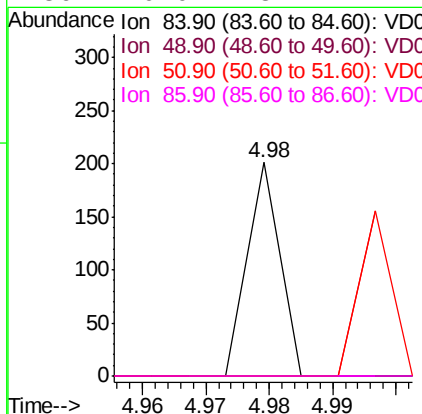
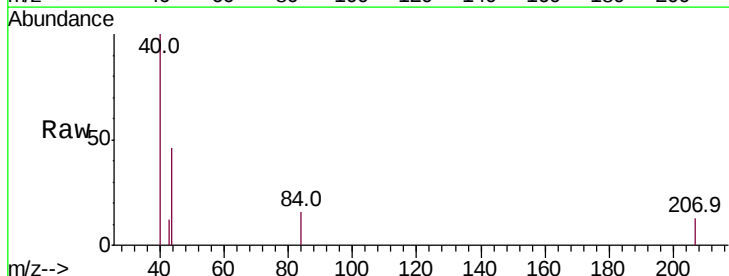
Instrument :
MSVOA_D
ClientSampleId :
34A

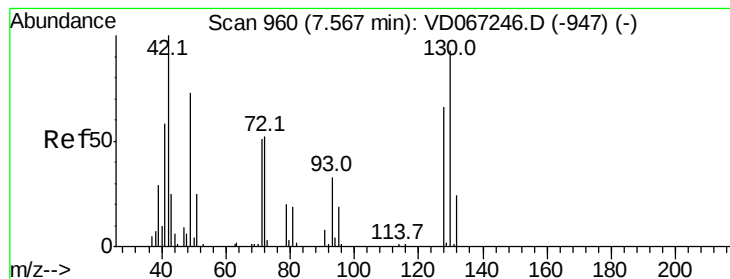
Tot Ion: 43 Resp: 17319
Ion Ratio Lower Upper
43 100
74 31.5 26.6 39.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD067322.D
Acq: 20 Oct 2020 14:23

Tgt Ion: 84 Resp: 71
Ion Ratio Lower Upper
84 100
49 0.0 72.2 108.2#
51 0.0 23.8 35.8#
86 0.0 48.2 72.4#





#29

Tetrahydrofuran

Concen: 4.981 ug/l

RT: 7.56 min Scan# 958

Delta R.T. -0.01 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

MSVOA_D

ClientSampleId :

34A

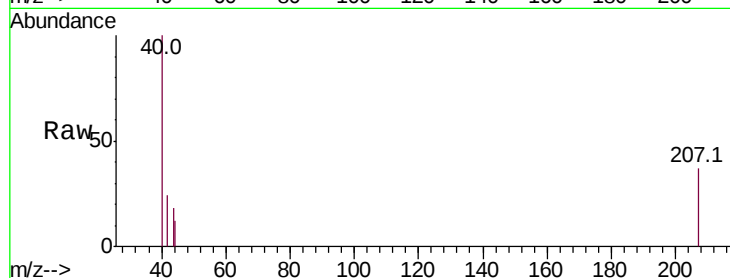
Tot Ion: 42 Resp: 245

Ion Ratio Lower Upper

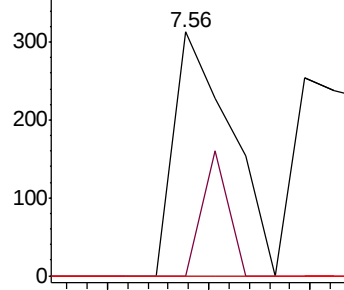
42 100

72 22.9 43.2 64.8#

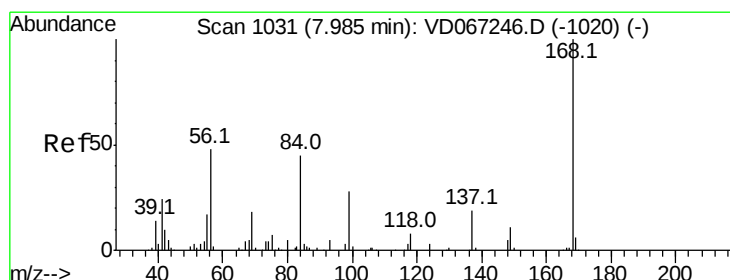
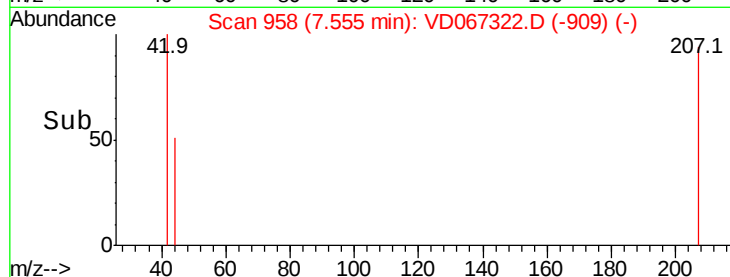
71 0.0 39.4 59.0#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



Time-->



#31

Cyclohexane

Concen: 1.518 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

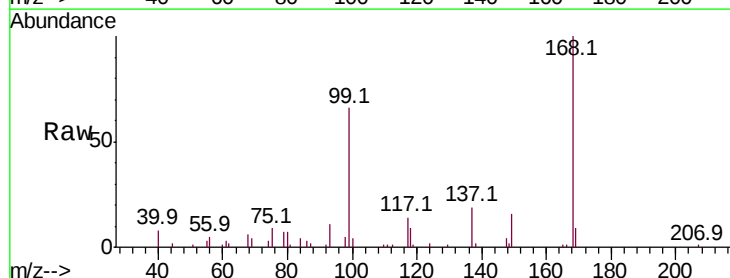
Tgt Ion: 56 Resp: 969

Ion Ratio Lower Upper

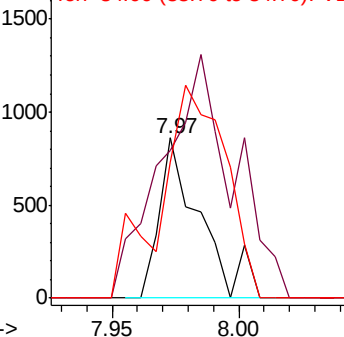
56 100

69 66.4 29.8 44.6#

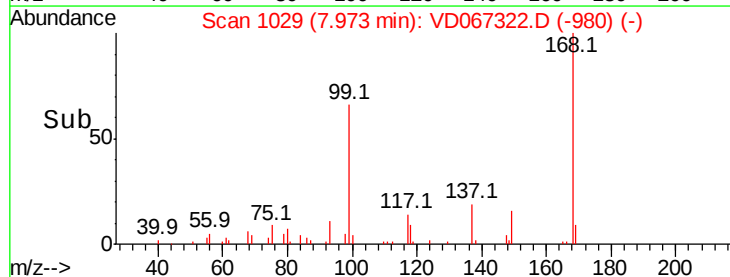
84 84.9 76.6 114.8

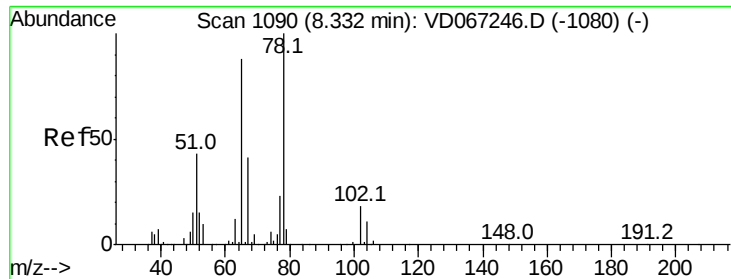


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC



Time-->





#33

1,2-Dichloroethane-d4

Concen: 80.515 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

MSVOA_D

ClientSampleId :

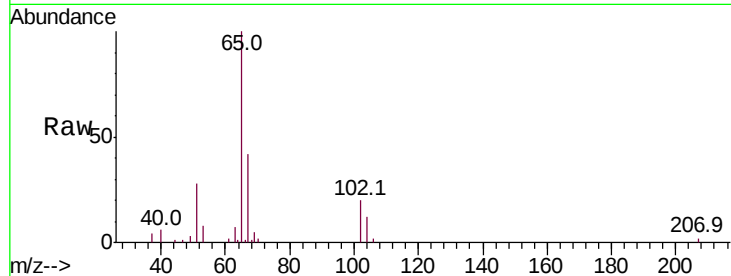
34A

Tot Ion: 65 Resp: 44625

Ion Ratio Lower Upper

65 100

67 49.3 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

20000

15000

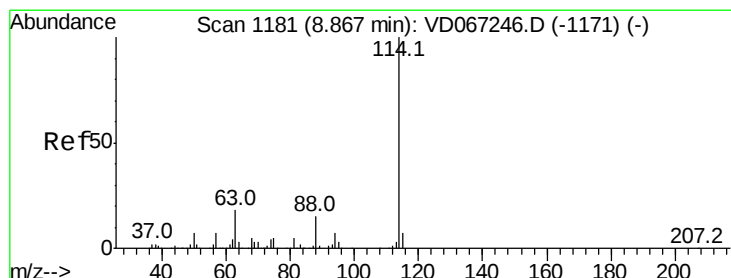
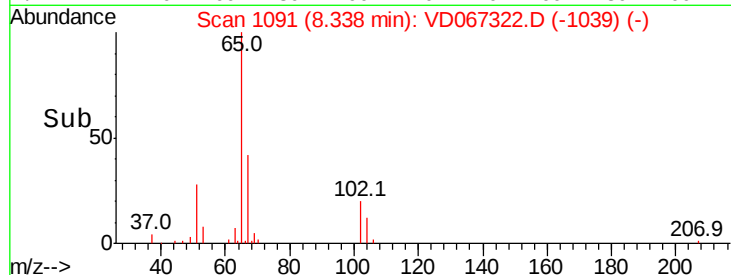
10000

5000

0

8.25 8.30 8.35 8.40 8.45

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

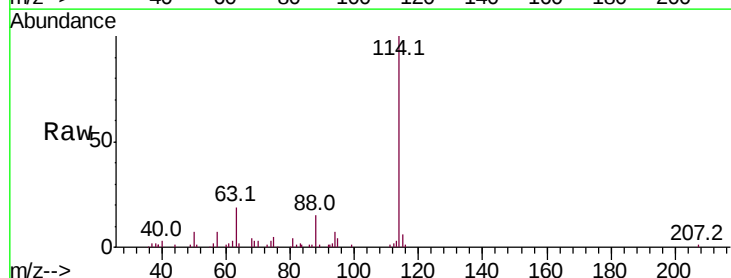
Tgt Ion: 114 Resp: 90879

Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.0

88 15.4 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

60000

50000

40000

30000

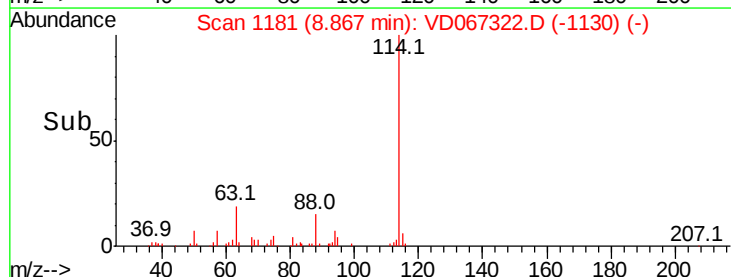
20000

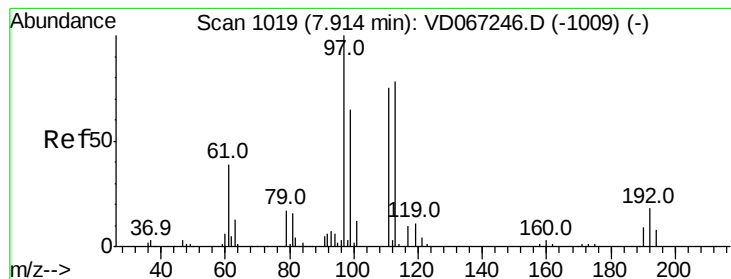
10000

0

8.80 8.90

Time-->





#35

Dibromofluoromethane

Concen: 57.353 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

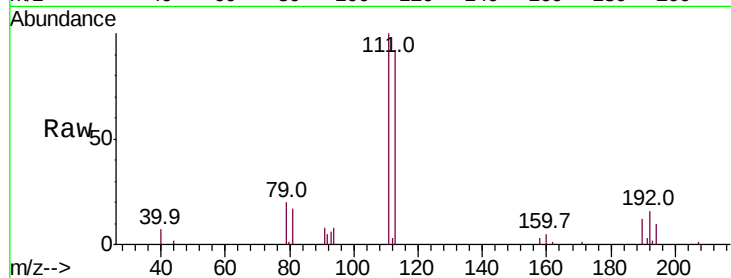
MSVOA_D

ClientSampleId :

34A

Tot Ion:113 Resp: 34687

Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.6	122.4
192	20.7	17.0	25.4

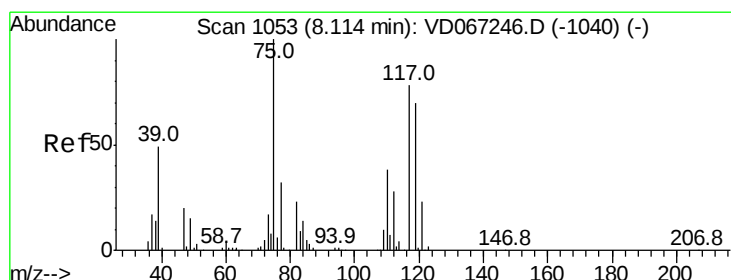
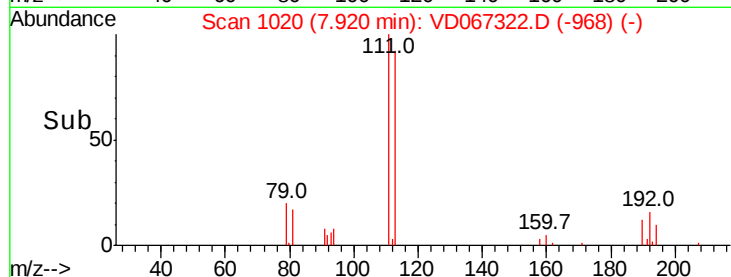
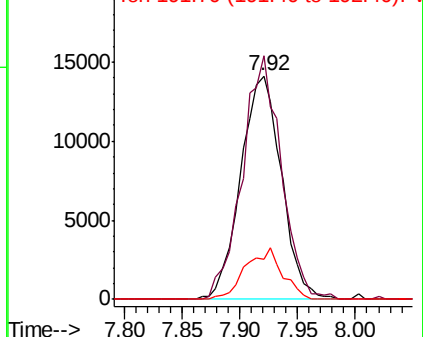


Abundance

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: 5.442 ug/l

RT: 7.98 min Scan# 1031

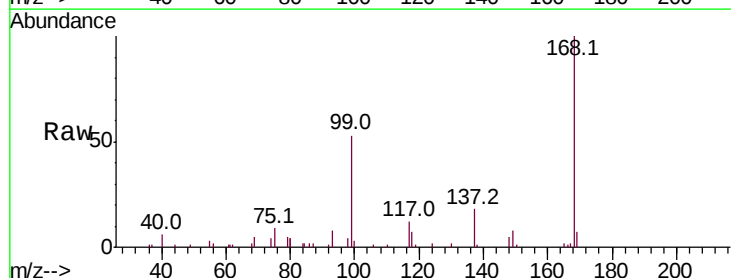
Delta R.T. -0.13 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Tgt Ion: 75 Resp: 4192

Ion	Ratio	Lower	Upper
75	100		
110	3.9	19.6	58.7#
77	0.0	24.6	37.0#

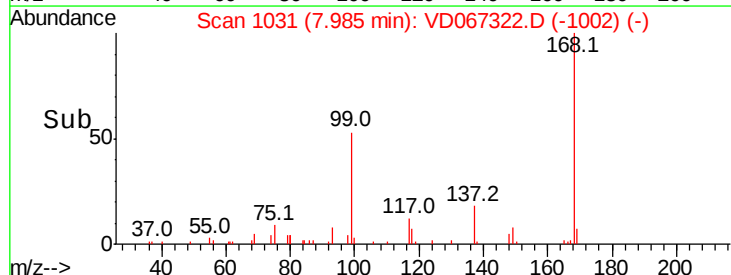
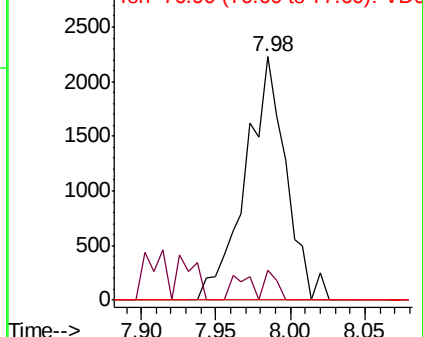


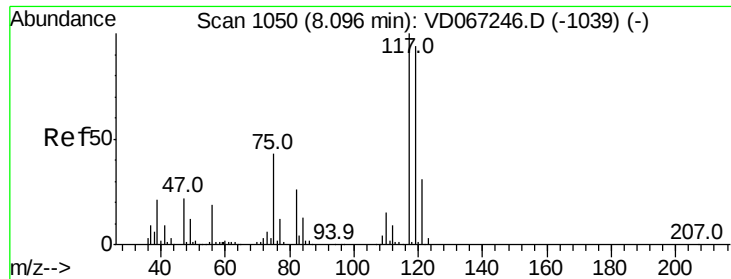
Abundance

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





#38

Carbon Tetrachloride

Concen: 6.528 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

MSVOA_D

ClientSampleId :

34A

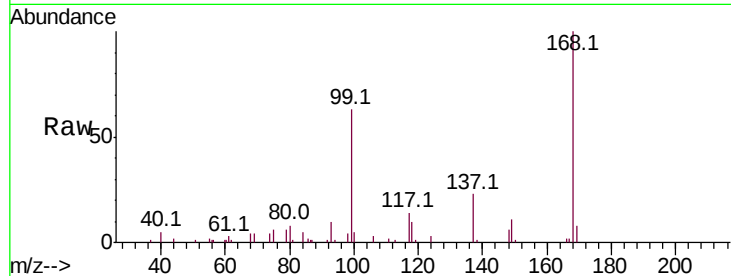
Tot Ion:117 Resp: 6427

Ion Ratio Lower Upper

117 100

119 5.8 75.0 112.4#

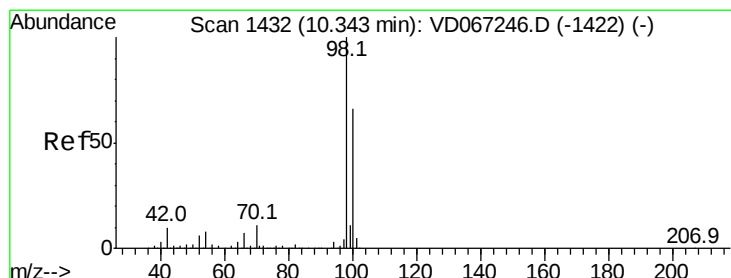
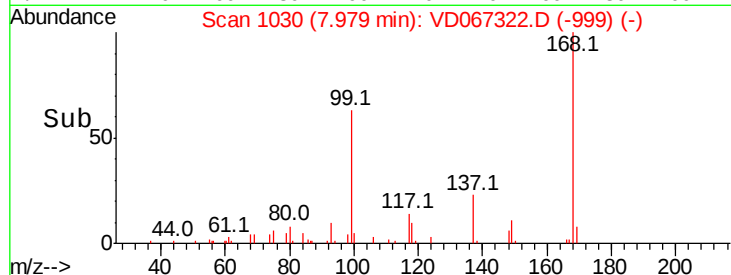
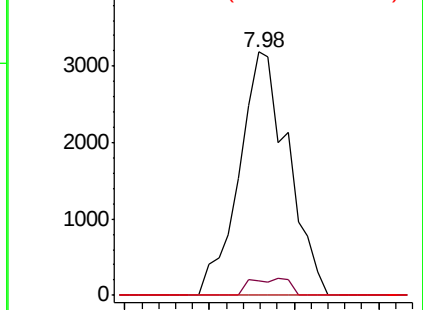
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 51.094 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067322.D

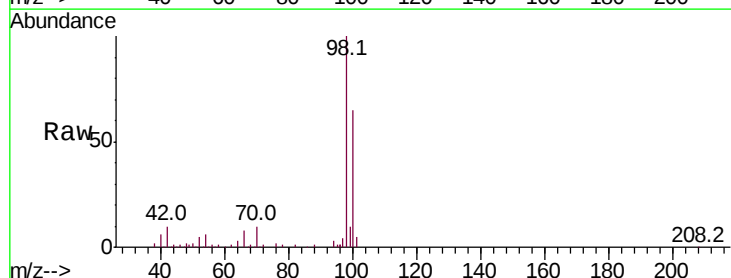
Acq: 20 Oct 2020 14:23

Tgt Ion: 98 Resp: 111830

Ion Ratio Lower Upper

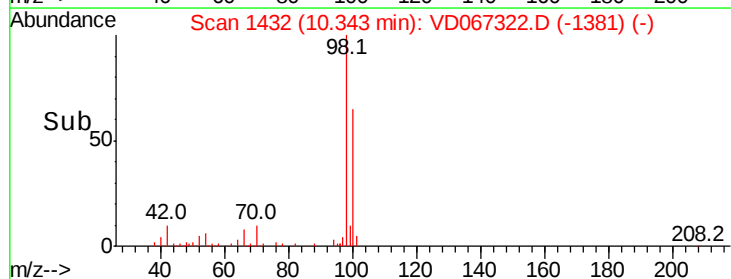
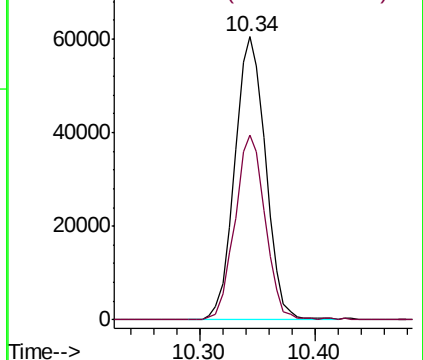
98 100

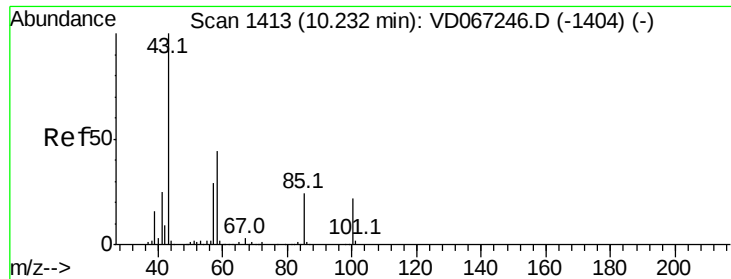
100 64.1 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.066 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. 0.10 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

MSVOA_D

ClientSampleId :

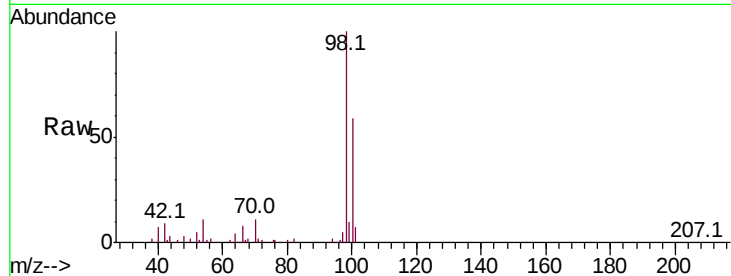
34A

Tot Ion: 43 Resp: 239

Ion Ratio Lower Upper

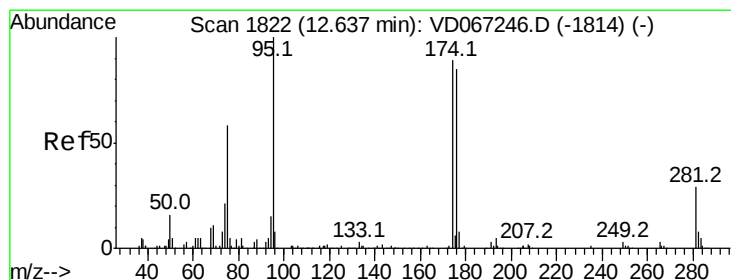
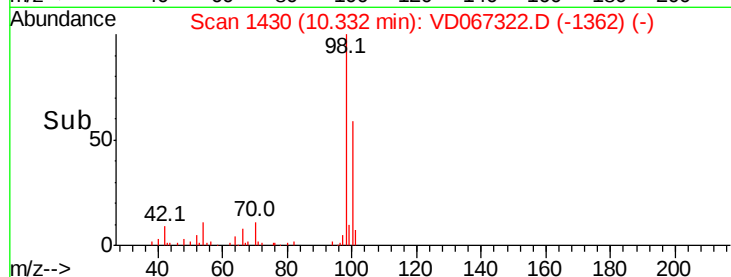
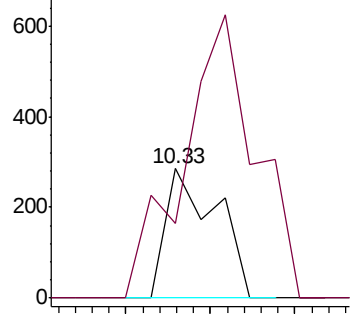
43 100

58 309.2 35.7 53.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 55.195 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

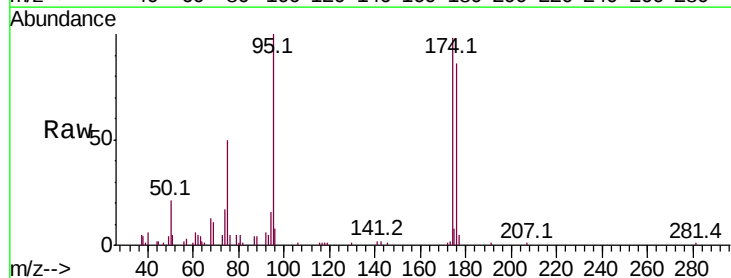
Tgt Ion: 95 Resp: 42007

Ion Ratio Lower Upper

95 100

174 88.6 0.0 175.2

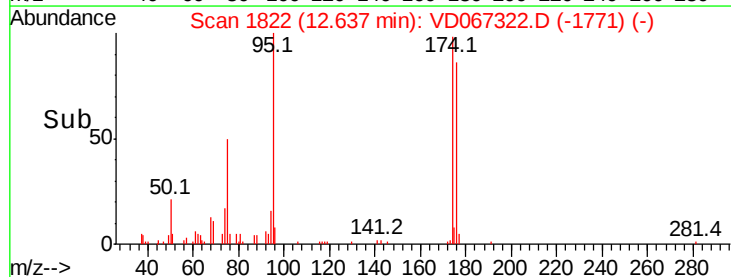
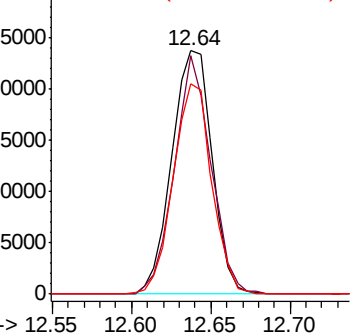
176 82.3 0.0 168.6

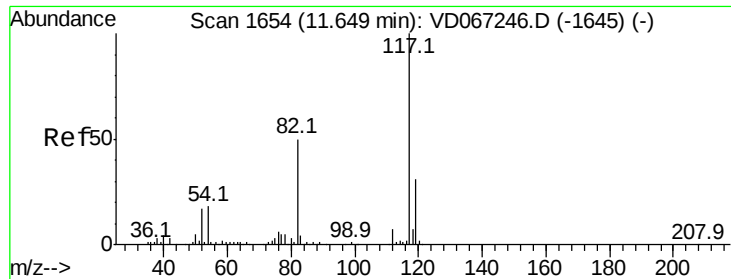


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

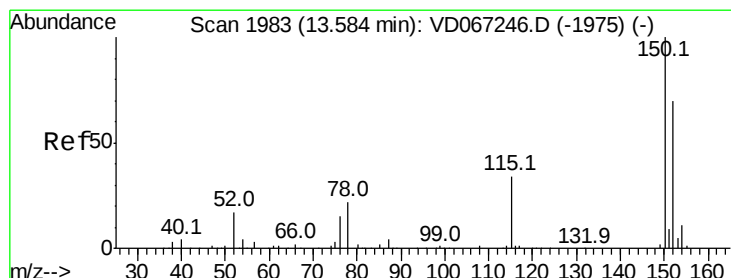
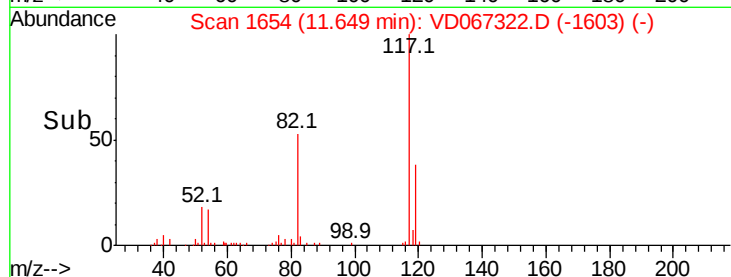
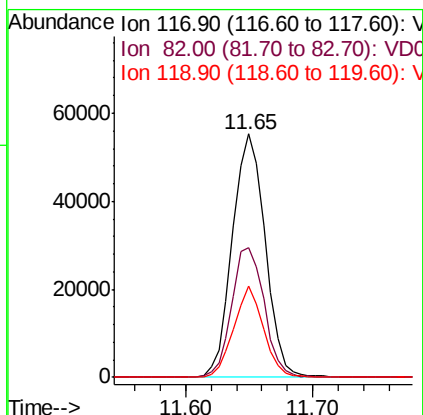
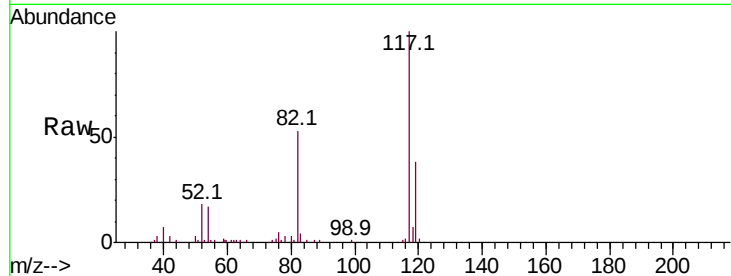




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067322.D
Acq: 20 Oct 2020 14:23

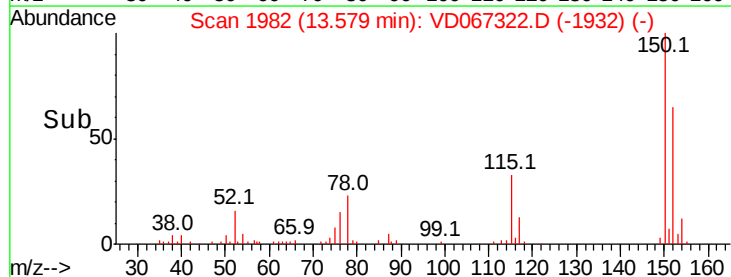
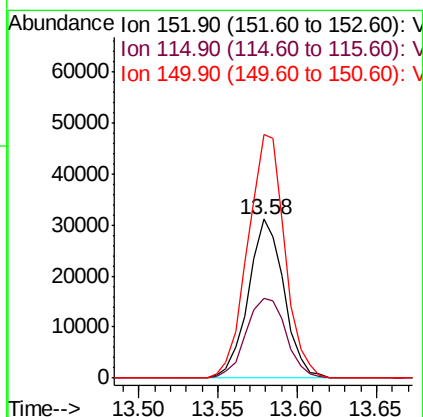
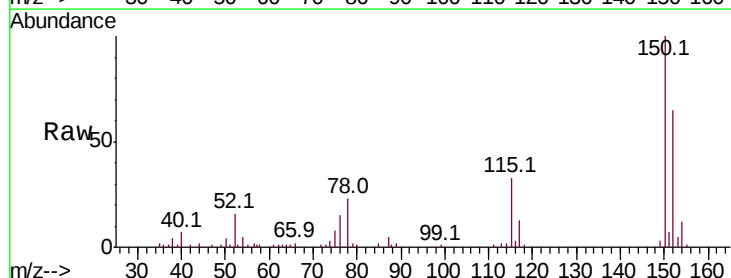
Instrument :
MSVOA_D
ClientSampleId :
34A

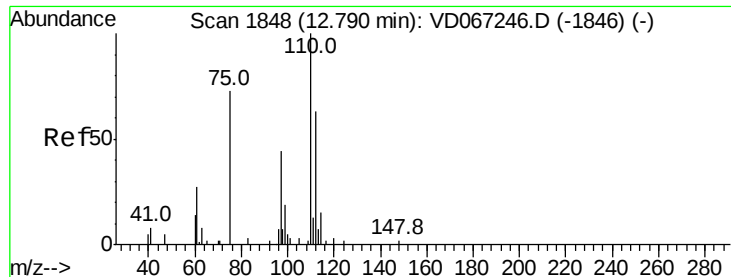
Tot Ion:117 Resp: 99134
Ion Ratio Lower Upper
117 100
82 53.3 39.9 59.9
119 37.7 24.9 37.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067322.D
Acq: 20 Oct 2020 14:23

Tgt Ion:152 Resp: 48802
Ion Ratio Lower Upper
152 100
115 56.5 29.3 87.9
150 158.6 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 63.682 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

Instrument :

MSVOA_D

ClientSampleId :

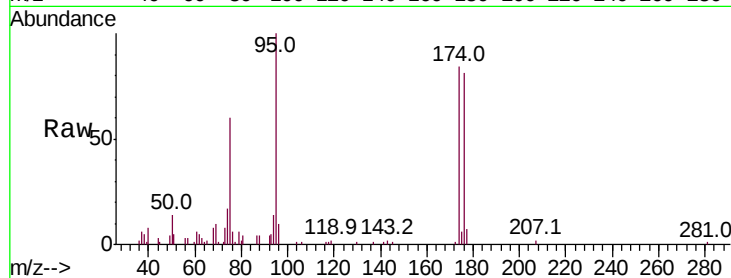
34A

Tot Ion: 75 Resp: 21540

Ion Ratio Lower Upper

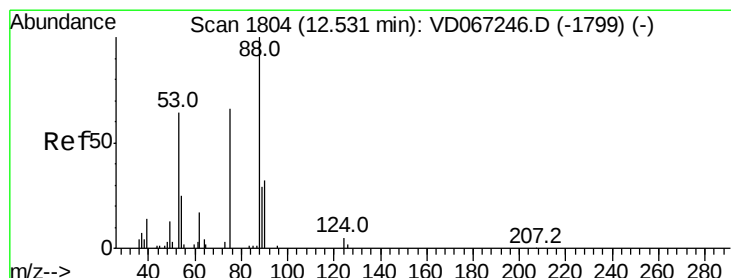
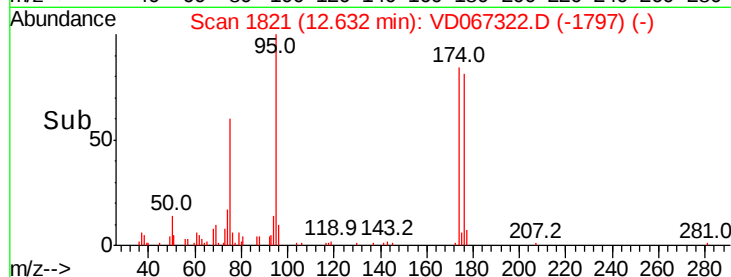
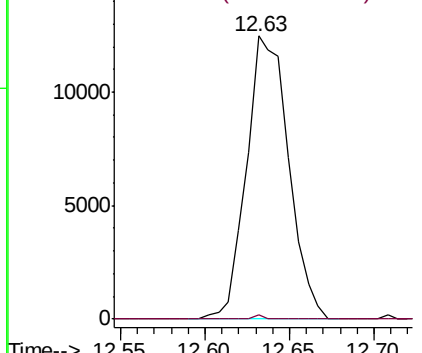
75 100

77 0.3 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: 144.411 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD067322.D

Acq: 20 Oct 2020 14:23

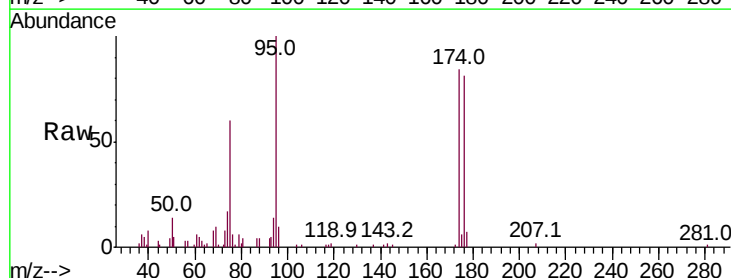
Tgt Ion: 75 Resp: 21540

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#



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

