

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103020\
 Data File : VD067479.D
 Acq On : 30 Oct 2020 18:26
 Operator : VA/SY
 Sample : L4215-01
 Misc : 6.46G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 AU-05-102820

Quant Time: Oct 31 06:28:20 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	7.99	168	7350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	11241	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	11520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	6131	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	5841	79.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	158.64%	
35) Dibromofluoromethane	7.91	113	3597	48.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.16%	
50) Toluene-d8	10.34	98	12858	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	
62) 4-Bromofluorobenzene	12.64	95	5140	54.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.20%	

Target Compounds

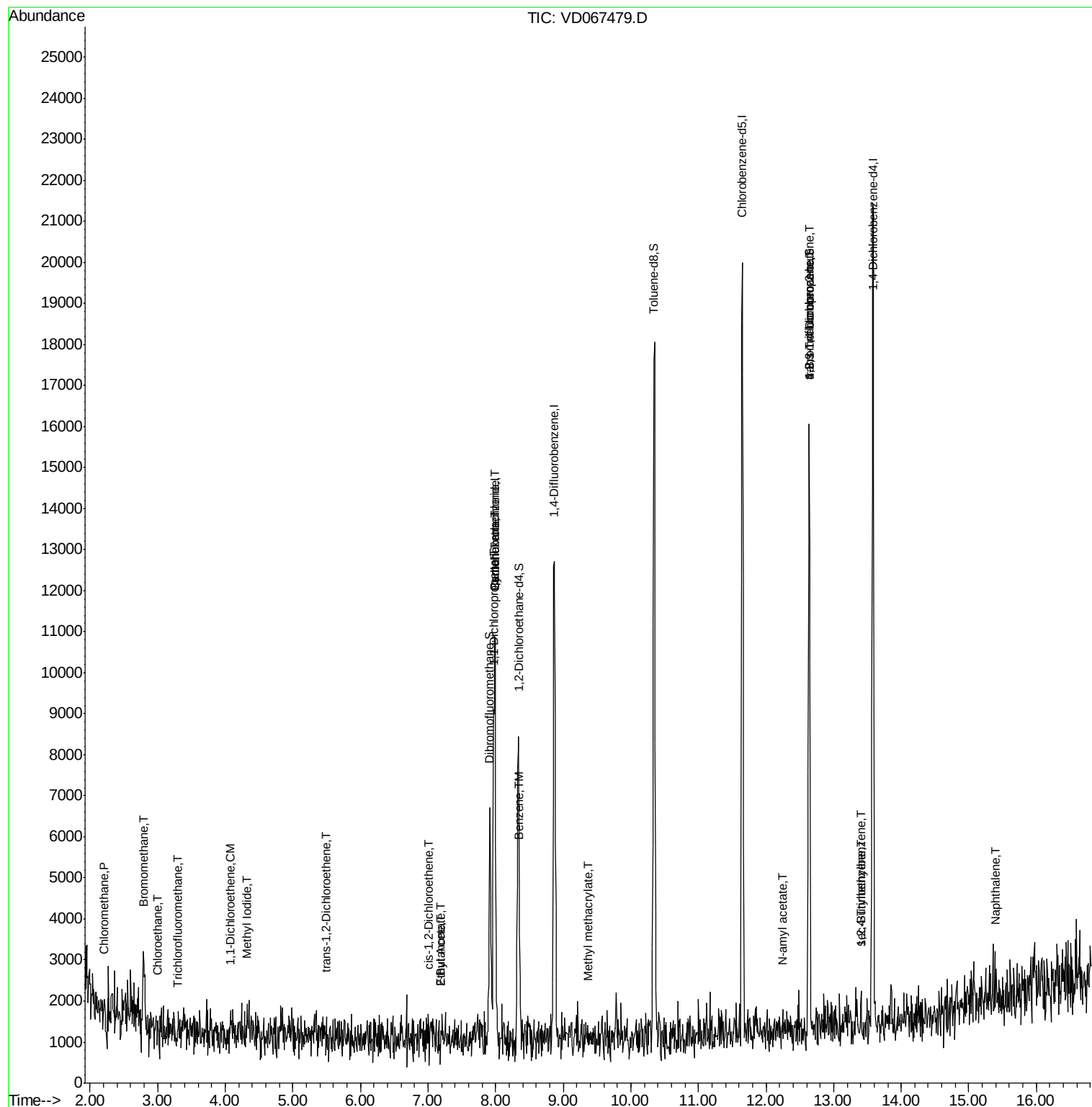
						Qvalue
2) Dichlorodifluoromethane	1.99	85	83	Below Cal	#	44
3) Chloromethane	2.21	50	152	3.286	ug/l #	41
5) Bromomethane	2.79	94	1175	32.444	ug/l #	55
6) Chloroethane	3.00	64	107	3.385	ug/l #	40
7) Trichlorofluoromethane	3.29	101	223	1.745	ug/l #	17
10) Methyl Iodide	4.33	142	655	10.457	ug/l #	37
12) 1,1-Dichloroethene	4.08	96	65	1.072	ug/l #	1
20) Methylene Chloride	4.96	84	88	Below Cal	#	16
21) trans-1,2-Dichloroethene	5.50	96	143	2.049	ug/l #	3
25) 2-Butanone	7.20	43	63	5.359	ug/l #	45
27) cis-1,2-Dichloroethene	7.01	96	133	1.738	ug/l #	1
31) Cyclohexane	7.99	56	238	2.806	ug/l #	31
36) 1,1-Dichloropropene	7.97	75	389	4.083	ug/l #	39
37) Ethyl Acetate	7.20	43	63	2.247	ug/l #	61
38) Carbon Tetrachloride	7.99	117	691	5.675	ug/l #	13
40) Benzene	8.35	78	399	1.527	ug/l #	53
48) Methyl methacrylate	9.36	41	57	2.109	ug/l #	2
74) N-amyl acetate	12.24	43	88	1.497	ug/l #	36
76) 1,2,3-Trichloropropane	12.64	75	2457	57.820	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	2457	131.120	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.40	105	432	1.293	ug/l #	31
85) sec-Butylbenzene	13.40	105	432	1.102	ug/l #	55
95) Naphthalene	15.41	128	304	1.684	ug/l #	69

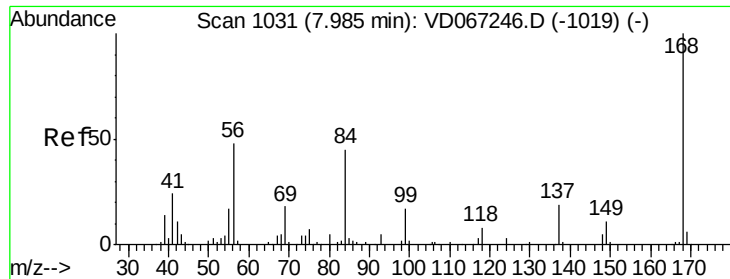
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 19 19:13:29 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

Instrument :

MSVOA_D

ClientSampleId :

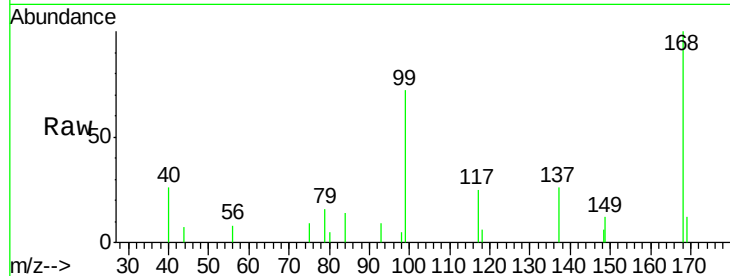
AU-05-102820

Tot Ion:168 Resp: 7350

Ion Ratio Lower Upper

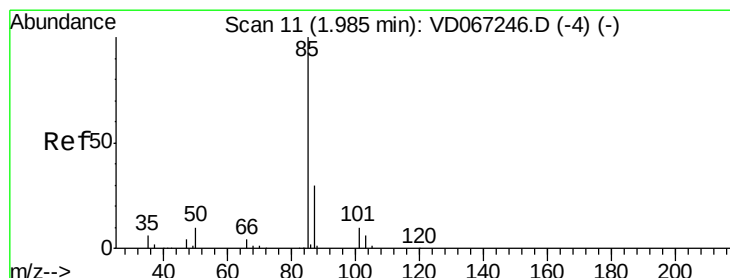
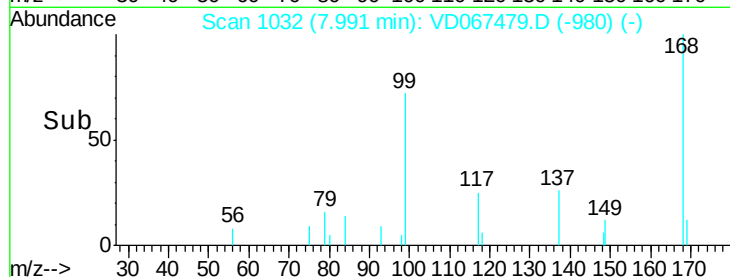
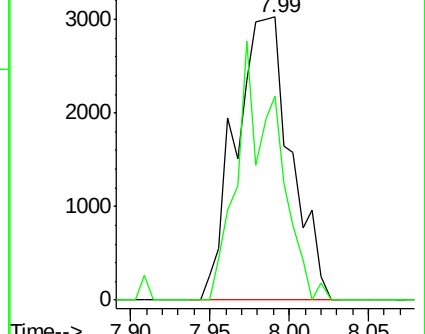
168 100

99 72.1 45.9 68.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067479.D

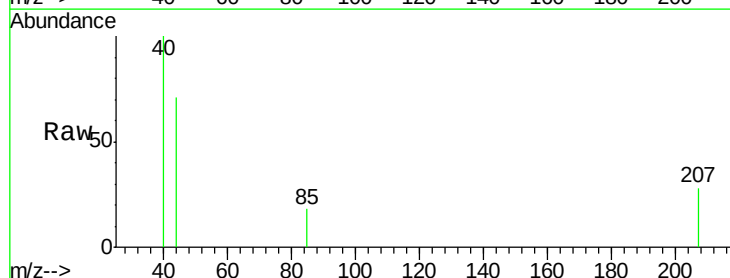
Acq: 30 Oct 2020 18:26

Tgt Ion: 85 Resp: 83

Ion Ratio Lower Upper

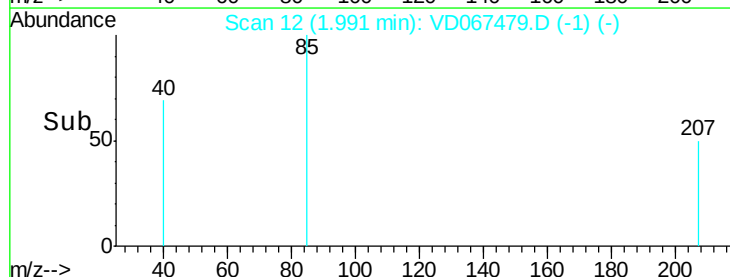
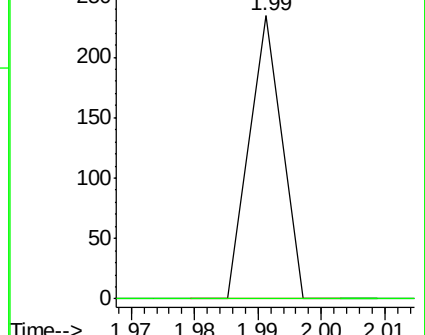
85 100

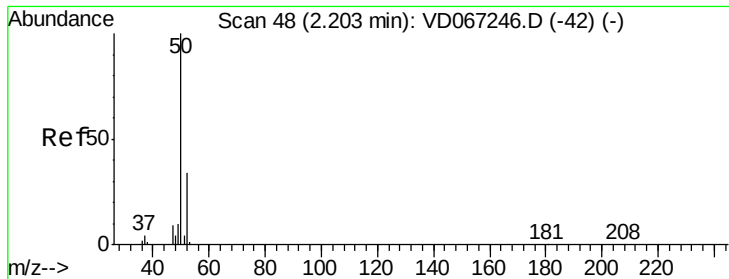
87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 3.286 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.01 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

Instrument :

MSVOA_D

ClientSampleId :

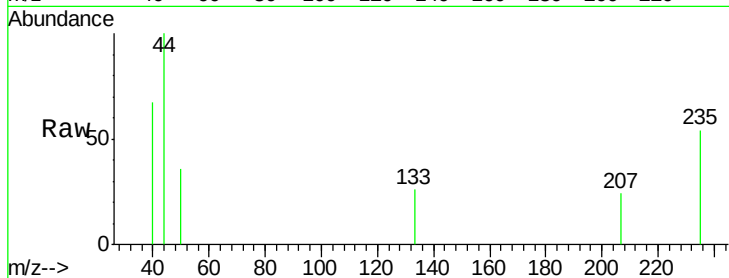
AU-05-102820

Tot Ion: 50 Resp: 152

Ion Ratio Lower Upper

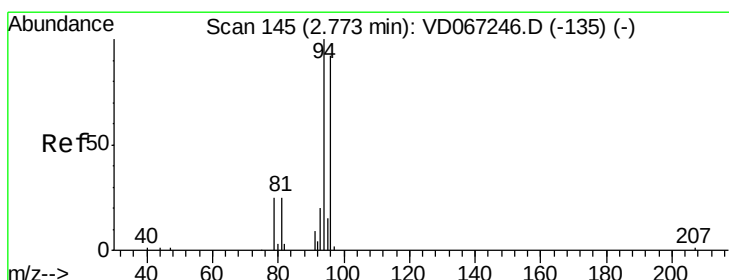
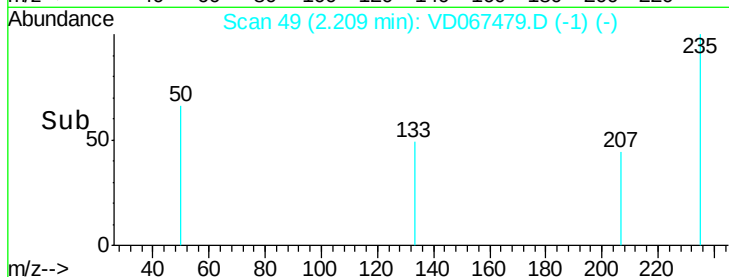
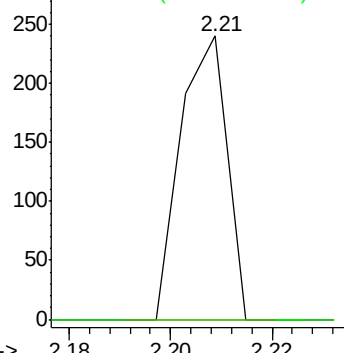
50 100

52 0.0 27.1 40.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Bromomethane

Concen: 32.444 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067479.D

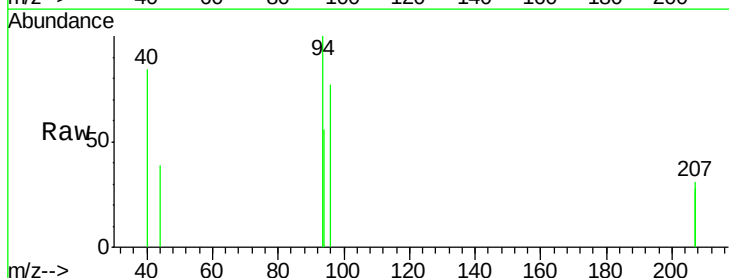
Acq: 30 Oct 2020 18:26

Tgt Ion: 94 Resp: 1175

Ion Ratio Lower Upper

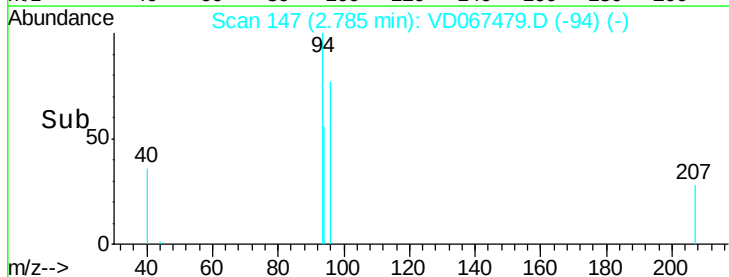
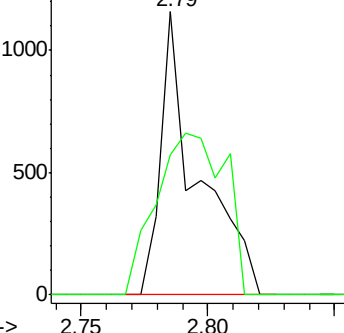
94 100

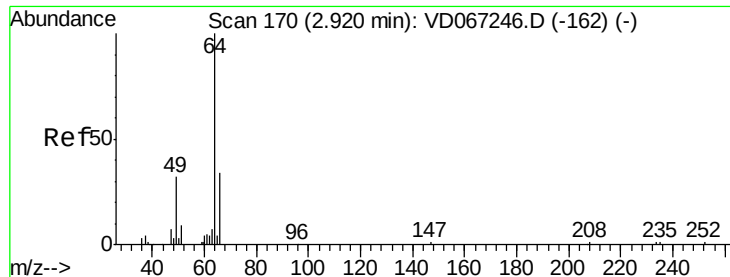
96 49.4 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 3.385 ug/l

RT: 3.00 min Scan# 183

Delta R.T. 0.08 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

Instrument :

MSVOA_D

ClientSampleId :

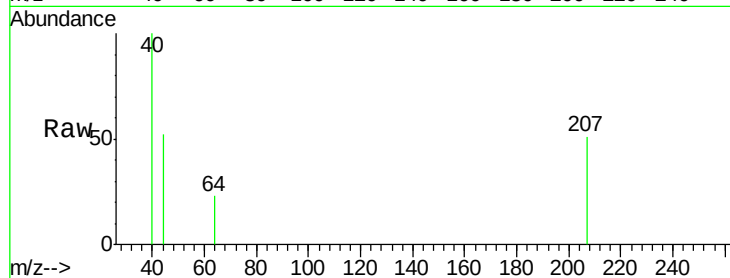
AU-05-102820

Tot Ion: 64 Resp: 107

Ion Ratio Lower Upper

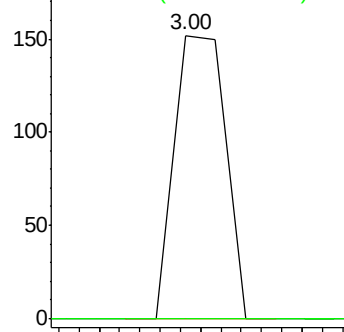
64 100

66 0.0 27.4 41.0#

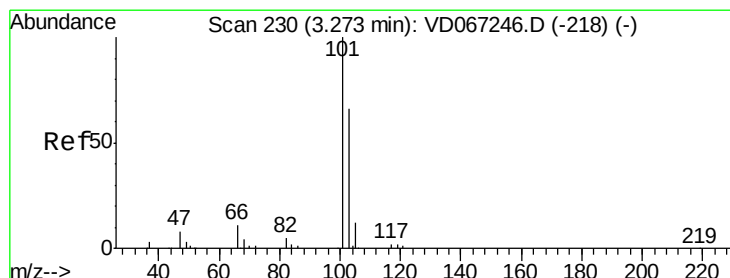
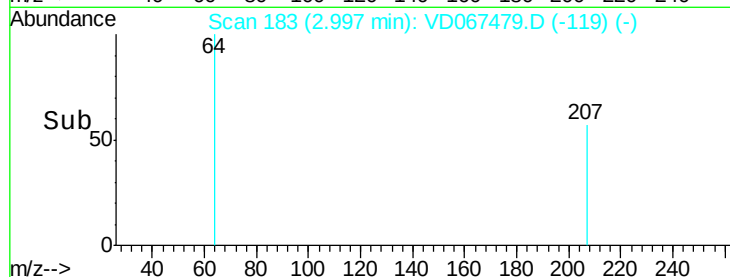


Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



Time-->



#7

Trichlorofluoromethane

Concen: 1.745 ug/l

RT: 3.29 min Scan# 233

Delta R.T. 0.02 min

Lab File: VD067479.D

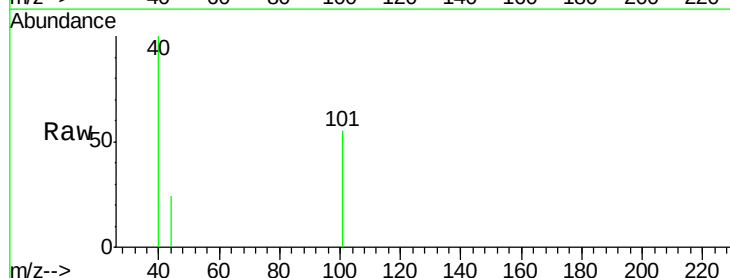
Acq: 30 Oct 2020 18:26

Tgt Ion: 101 Resp: 223

Ion Ratio Lower Upper

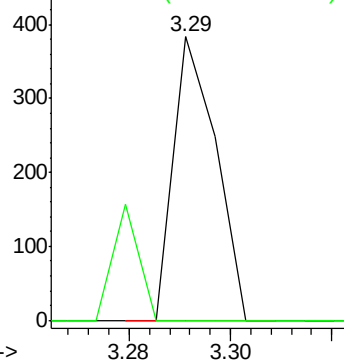
101 100

103 0.0 53.1 79.7#

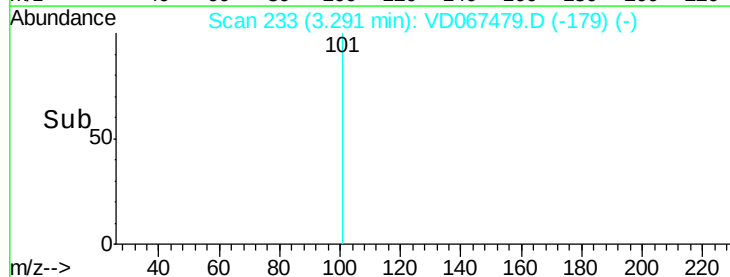


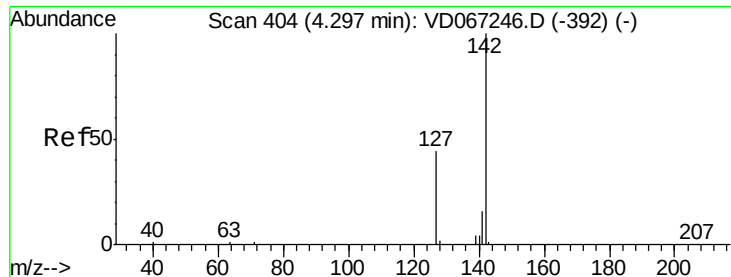
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



Time-->

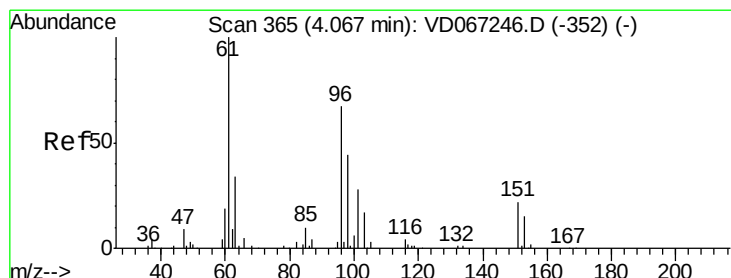
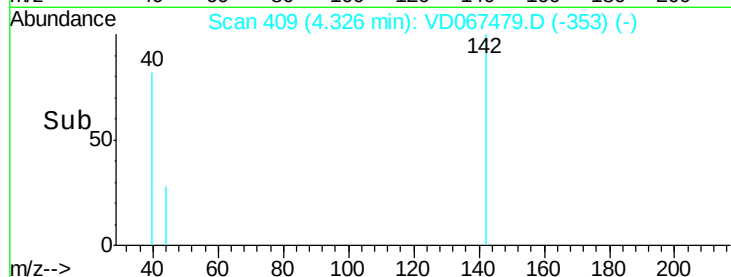
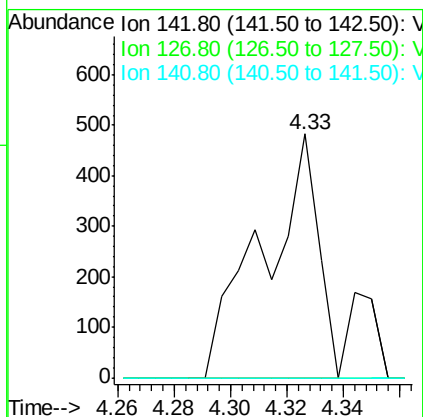
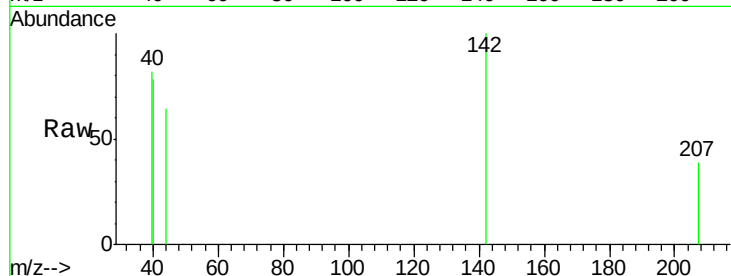




#10
Methvl Iodide
Concen: 10.457 ug/l
RT: 4.33 min Scan# 409
Delta R.T. 0.03 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

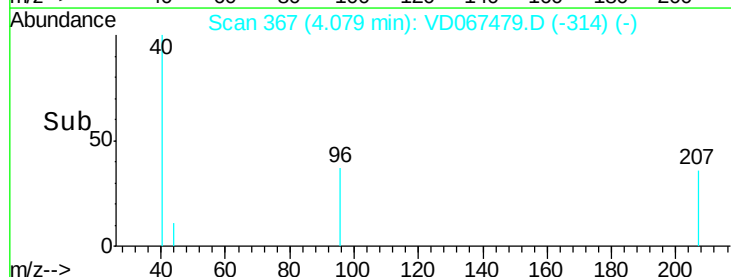
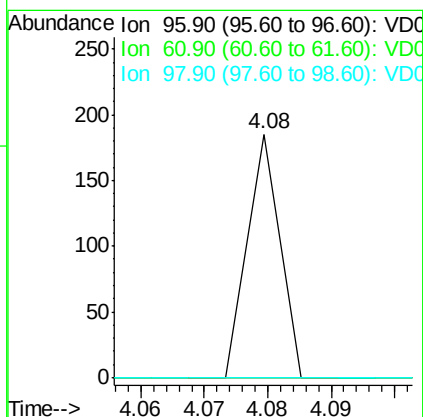
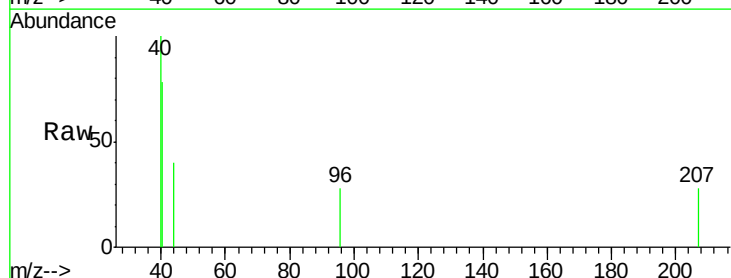
Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

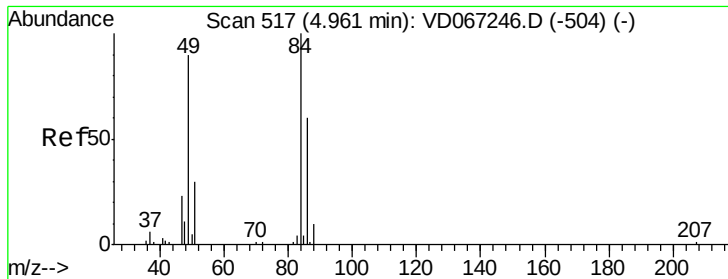
Tot Ion:142 Resp: 655
Ion Ratio Lower Upper
142 100
127 0.0 38.4 57.6#
141 0.0 11.6 17.4#



#12
1,1-Dichloroethene
Concen: 1.072 ug/l
RT: 4.08 min Scan# 367
Delta R.T. 0.01 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Tgt Ion: 96 Resp: 65
Ion Ratio Lower Upper
96 100
61 0.0 118.6 177.8#
98 0.0 51.8 77.6#

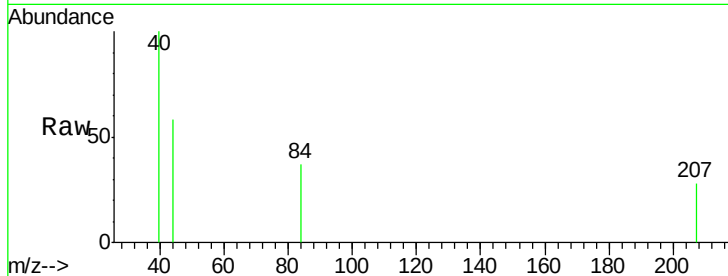




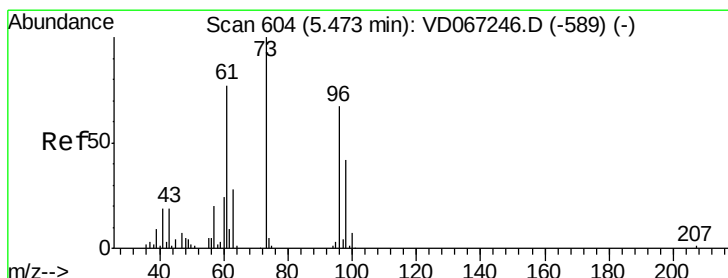
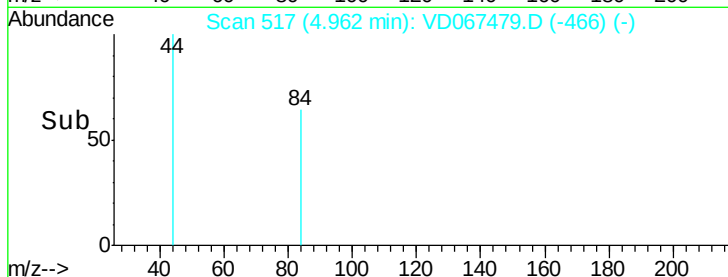
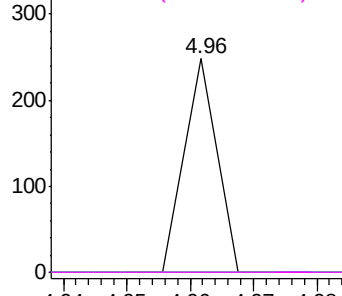
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

Tot Ion:	84	Resp:	88
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#

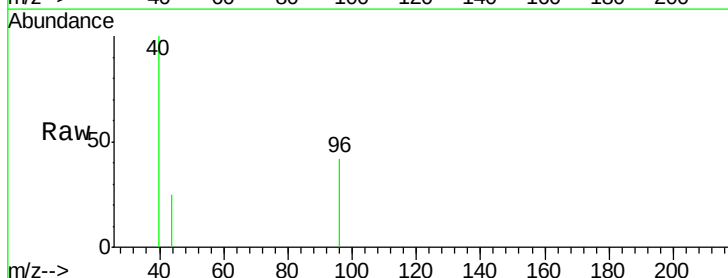


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

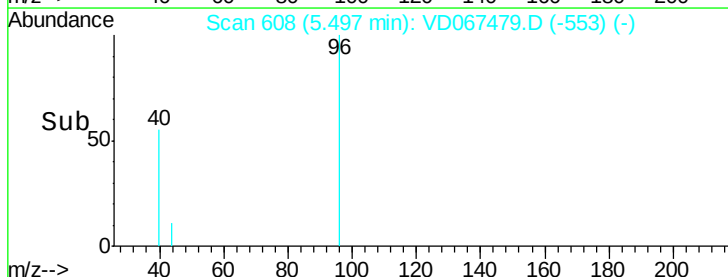
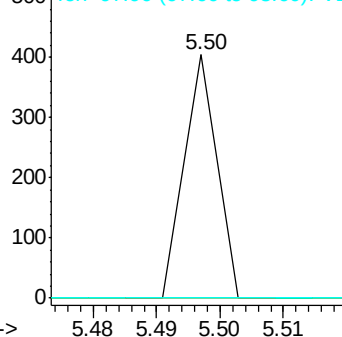


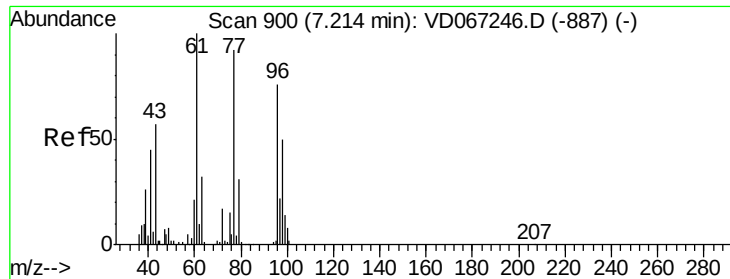
#21
trans-1,2-Dichloroethene
Concen: 2.049 ug/l
RT: 5.50 min Scan# 608
Delta R.T. 0.02 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Tgt Ion:	96	Resp:	143
Ion	Ratio	Lower	Upper
96	100		
61	0.0	92.0	138.0#
98	0.0	49.8	74.8#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC

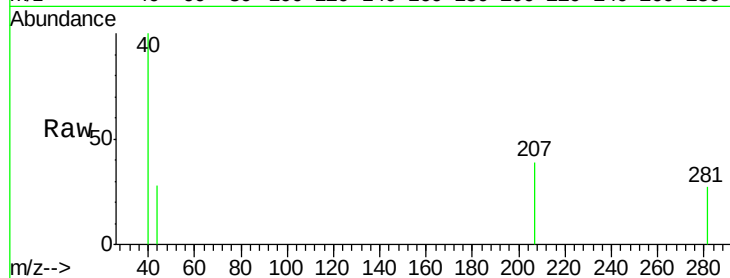




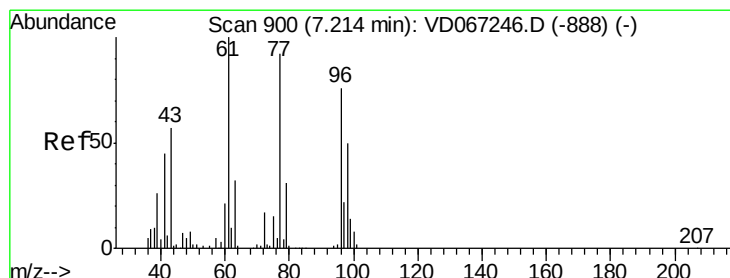
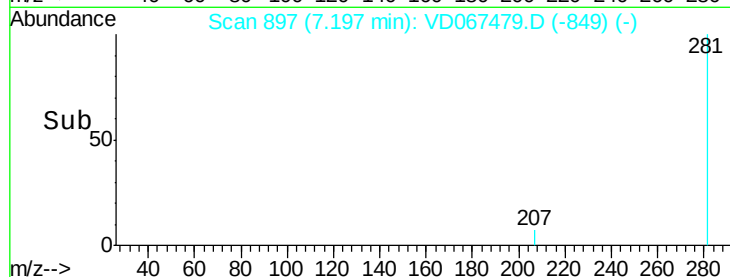
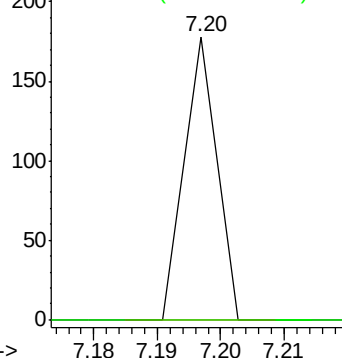
#25
2-Butanone
Concen: 5.359 ug/l
RT: 7.20 min Scan# 897
Delta R.T. -0.02 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

Tot Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#

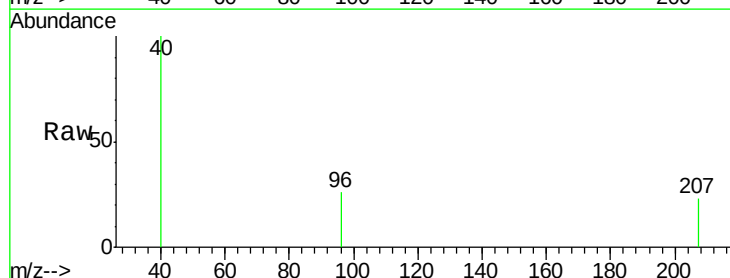


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC

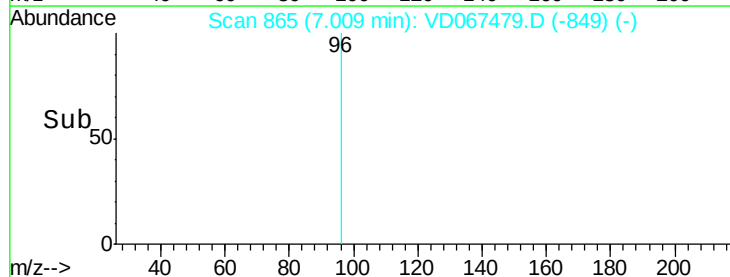
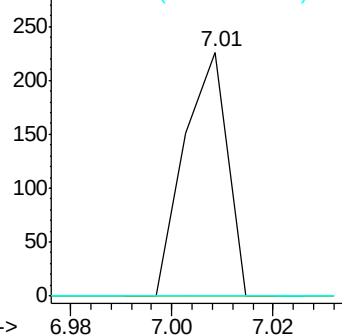


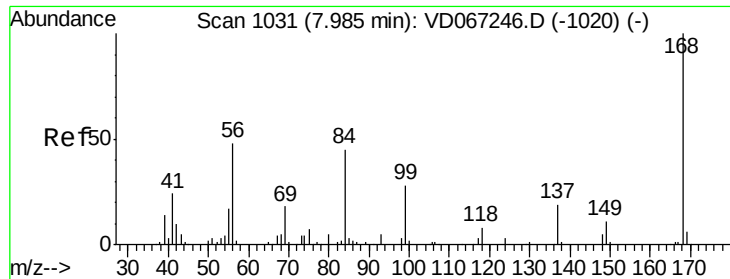
#27
cis-1,2-Dichloroethene
Concen: 1.738 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.21 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Tgt Ion: 96 Resp: 133
Ion Ratio Lower Upper
96 100
61 0.0 0.0 255.4
98 0.0 0.0 128.0



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC

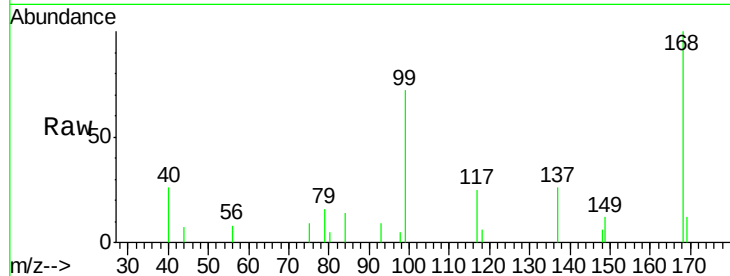




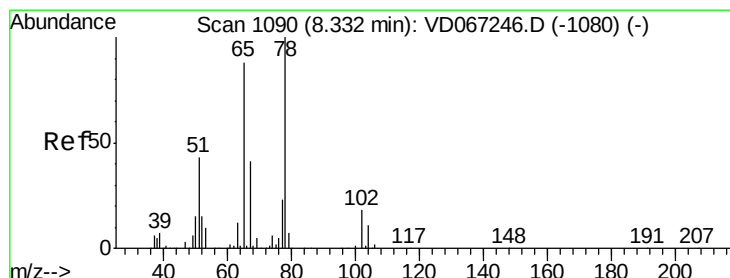
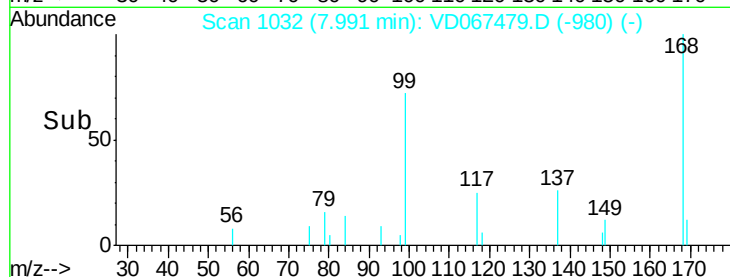
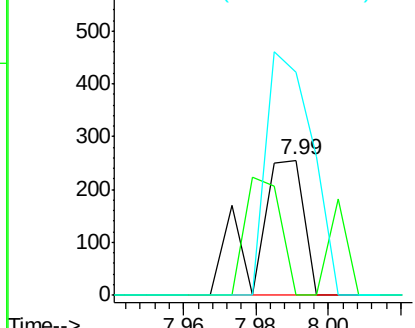
#31
Cyclohexane
Concen: 2.806 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

Tot Ion: 56 Resp: 238
Ion Ratio Lower Upper
56 100
69 0.0 29.8 44.6#
84 165.5 76.6 114.8#

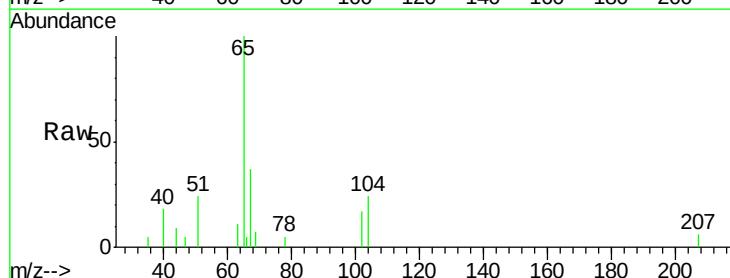


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

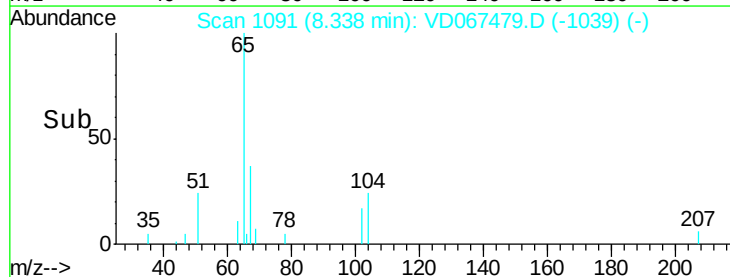
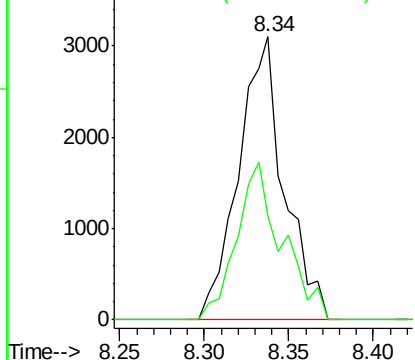


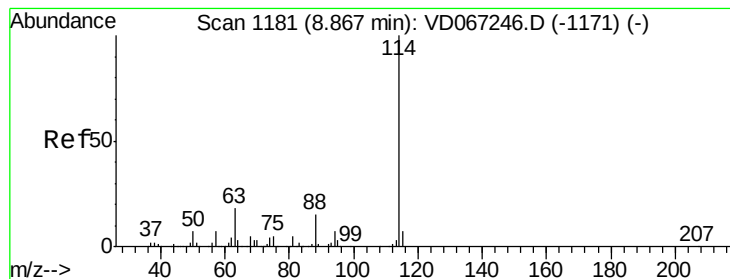
#33
1,2-Dichloroethane-d4
Concen: 79.323 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Tgt Ion: 65 Resp: 5841
Ion Ratio Lower Upper
65 100
67 55.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

Instrument :

MSVOA_D

ClientSampleId :

AU-05-102820

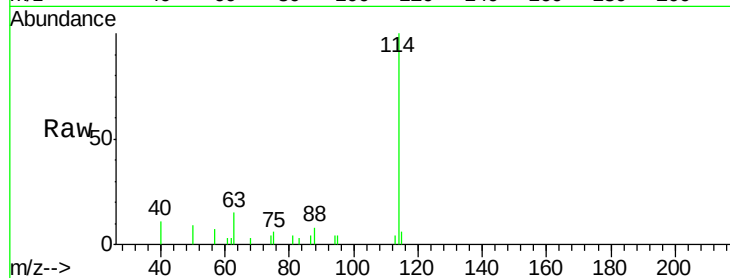
Tot Ion:114 Resp: 11241

Ion Ratio Lower Upper

114 100

63 15.1 0.0 35.0

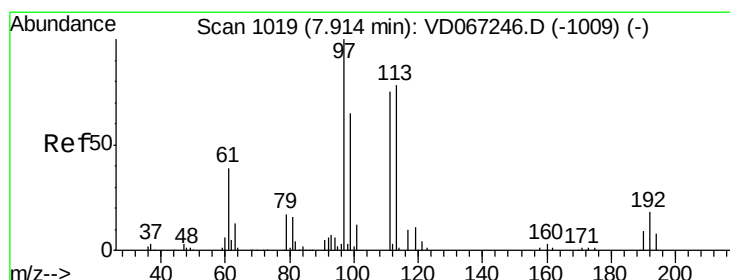
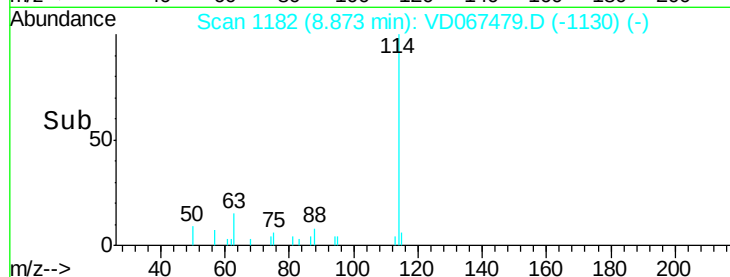
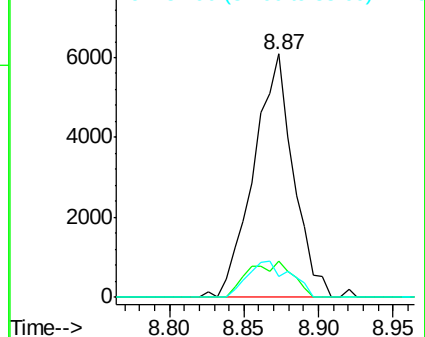
88 8.5 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 48.082 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

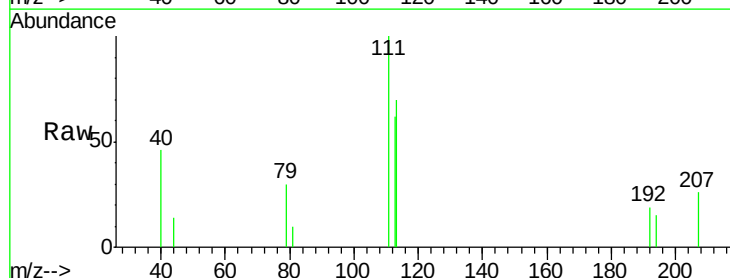
Tgt Ion:113 Resp: 3597

Ion Ratio Lower Upper

113 100

111 95.9 81.6 122.4

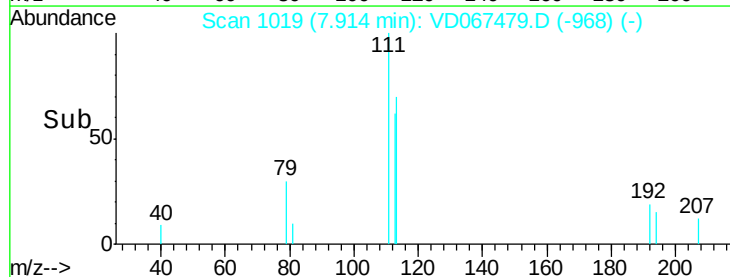
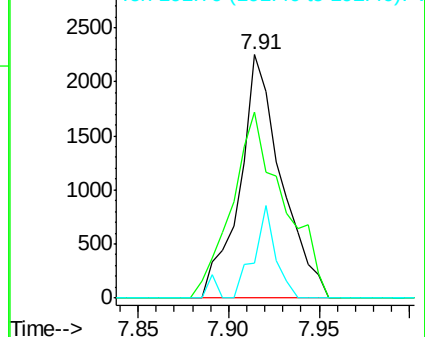
192 19.6 17.0 25.4

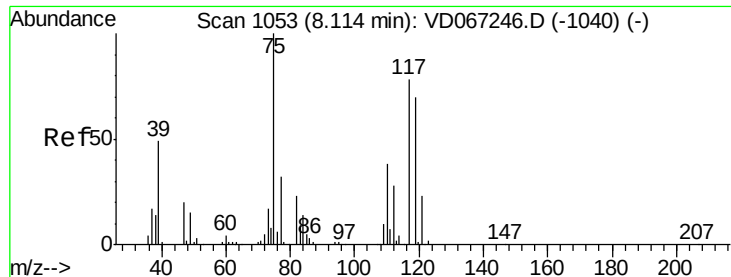


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

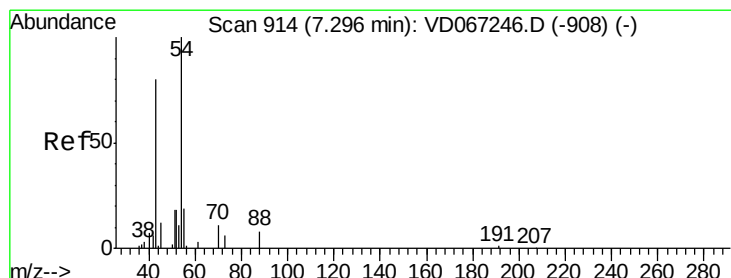
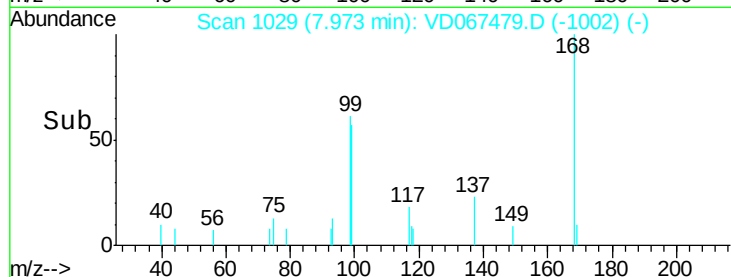
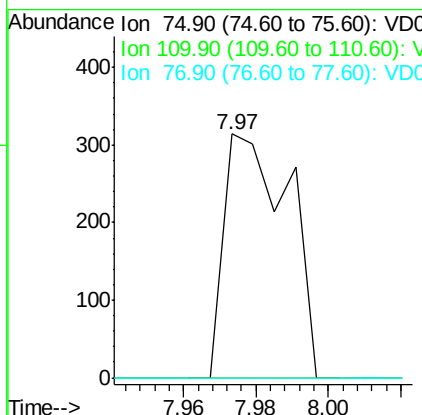
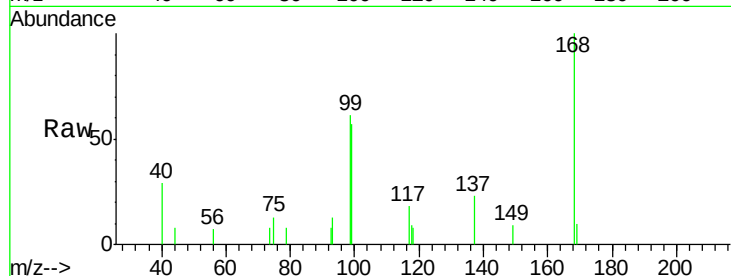




#36
 1,1-Dichloropropene
 Concen: 4.083 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD067479.D
 Acq: 30 Oct 2020 18:26

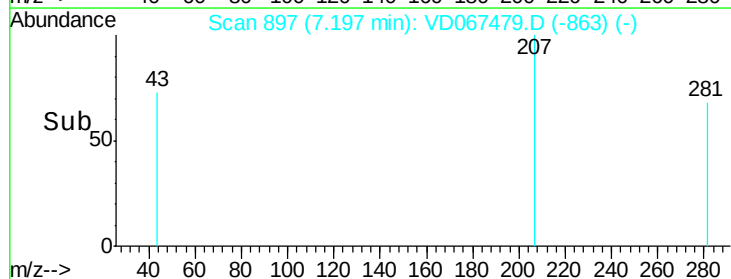
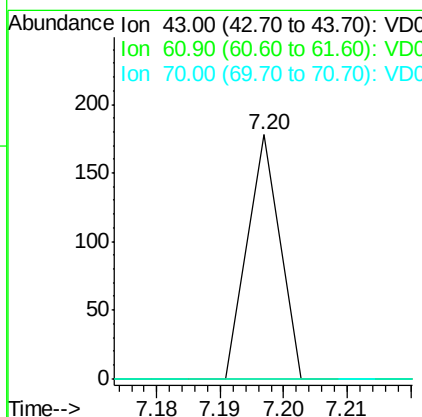
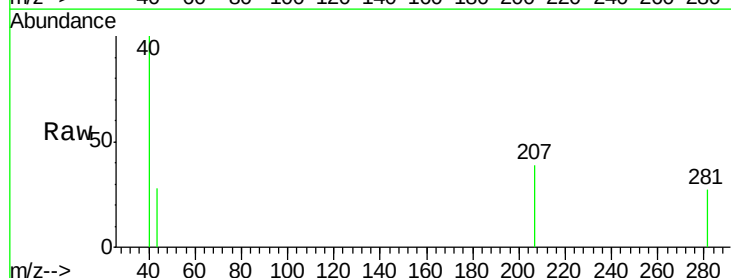
Instrument :
 MSVOA_D
 ClientSampleId :
 AU-05-102820

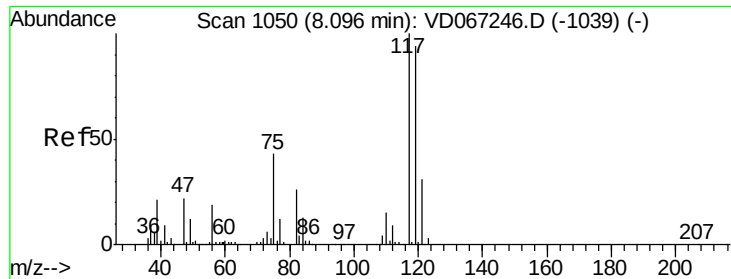
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.6	58.7#
77	0.0	24.6	37.0#



#37
 Ethyl Acetate
 Concen: 2.247 ug/l
 RT: 7.20 min Scan# 897
 Delta R.T. -0.10 min
 Lab File: VD067479.D
 Acq: 30 Oct 2020 18:26

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	15.6	23.4#
70	0.0	10.4	15.6#

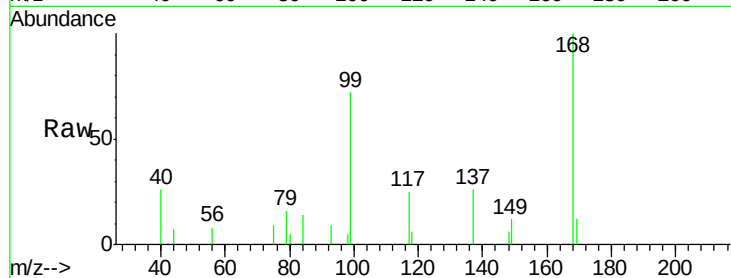




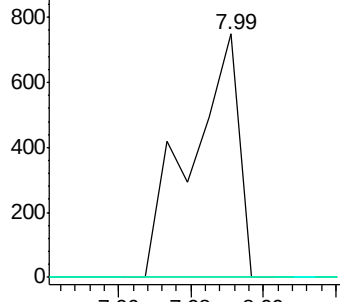
#38
Carbon Tetrachloride
Concen: 5.675 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.11 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

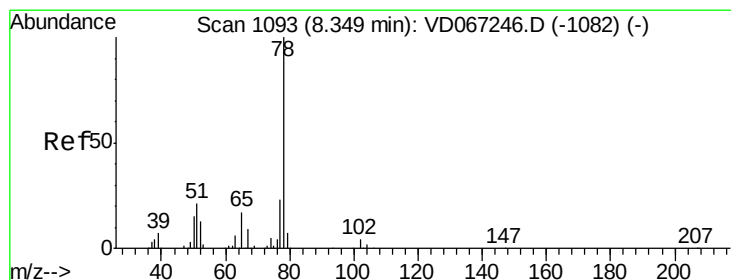
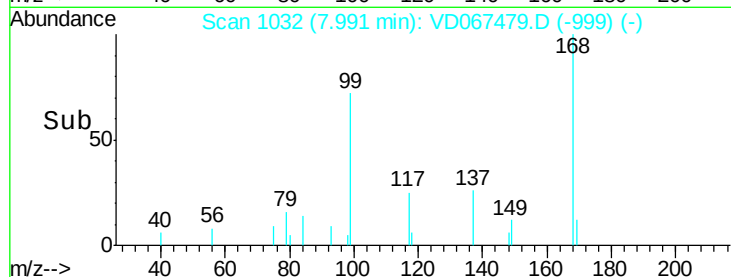
Tot Ion:117 Resp: 691
Ion Ratio Lower Upper
117 100
119 0.0 75.0 112.4#
121 0.0 24.9 37.3#



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

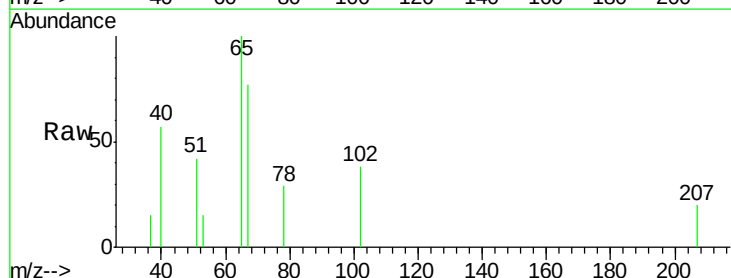


Time-->

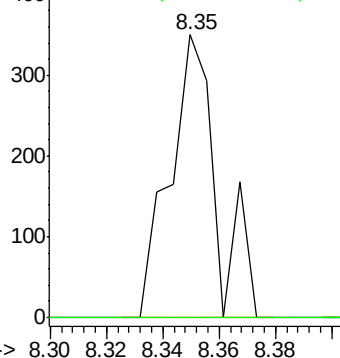


#40
Benzene
Concen: 1.527 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

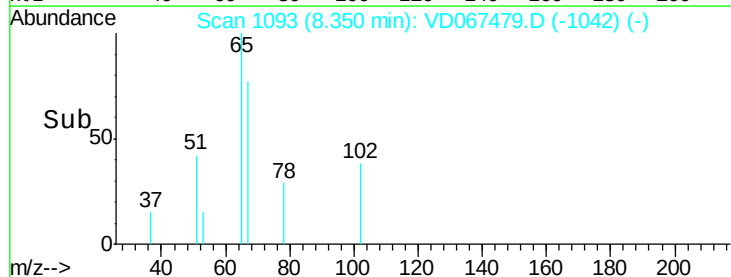
Tgt Ion: 78 Resp: 399
Ion Ratio Lower Upper
78 100
77 0.0 18.3 27.5#

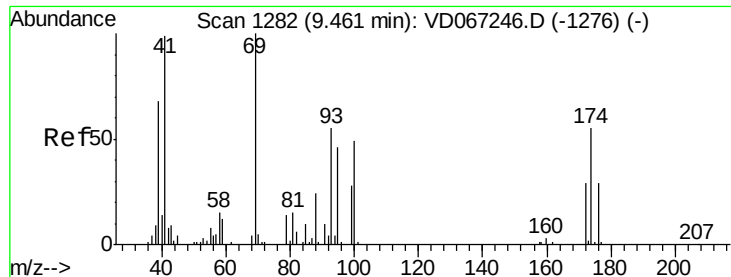


Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC



Time-->

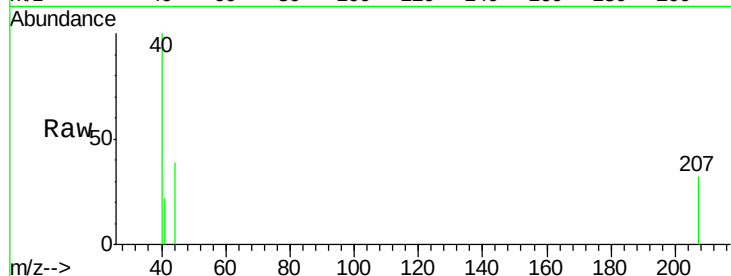




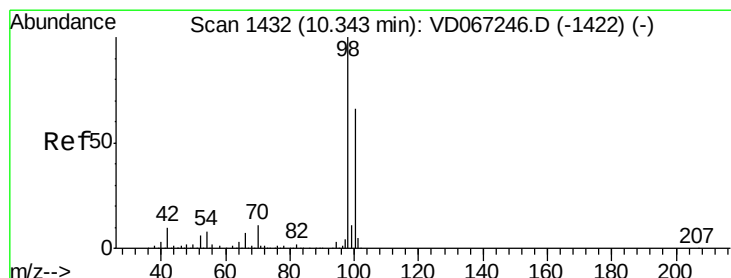
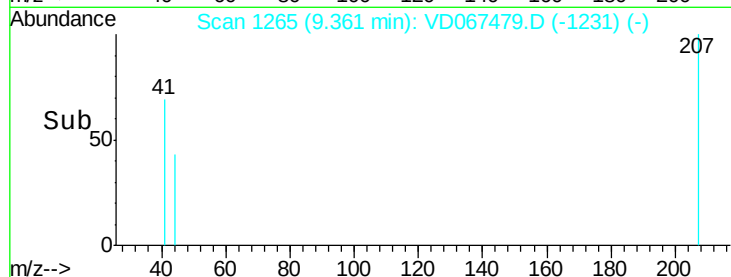
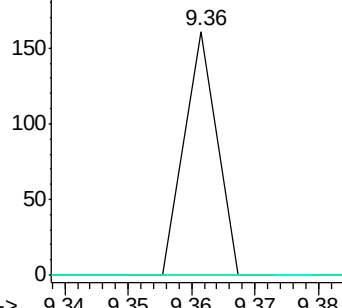
#48
Methvl methacrylate
Concen: 2.109 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. -0.10 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

Tot Ion: 41 Resp: 57
Ion Ratio Lower Upper
41 100
69 0.0 89.0 133.6#
39 0.0 60.2 90.2#

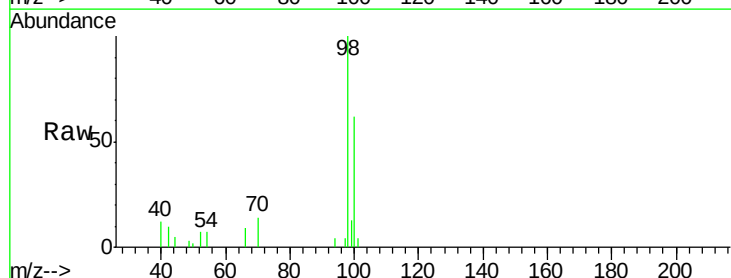


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC

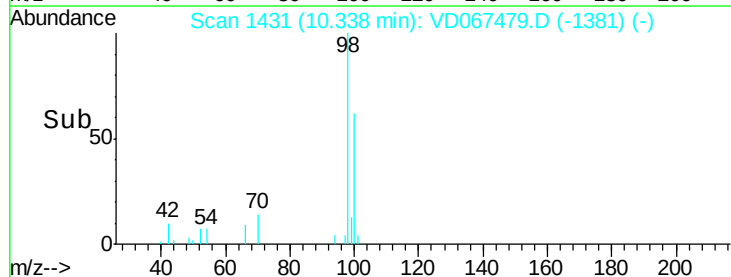
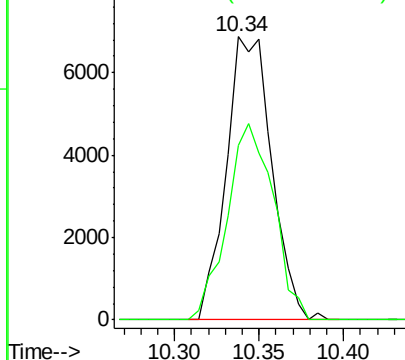


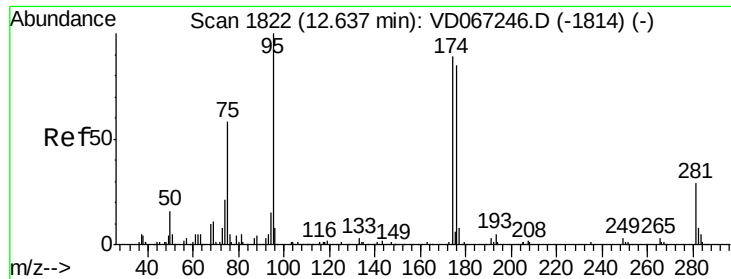
#50
Toluene-d8
Concen: 47.494 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Tgt Ion: 98 Resp: 12858
Ion Ratio Lower Upper
98 100
100 70.7 53.1 79.7



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

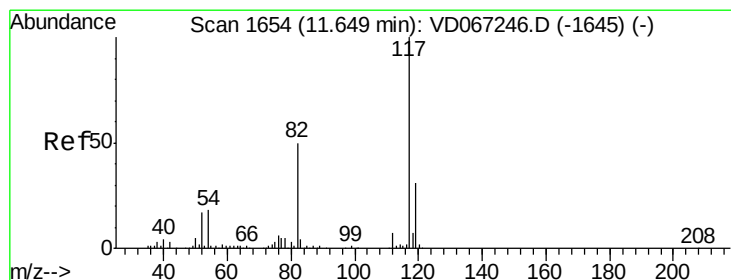
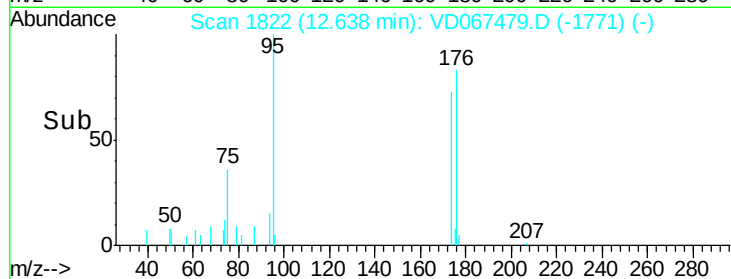
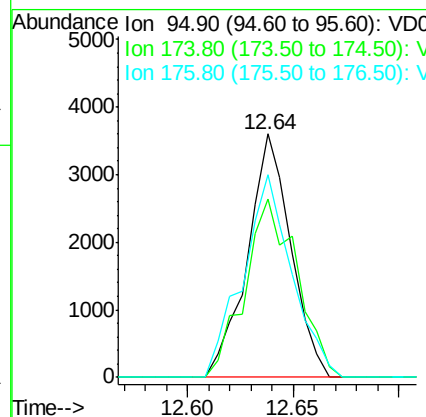
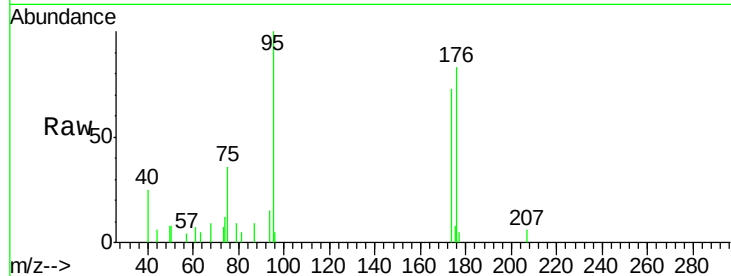




#62
4-Bromofluorobenzene
Concen: 54.601 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

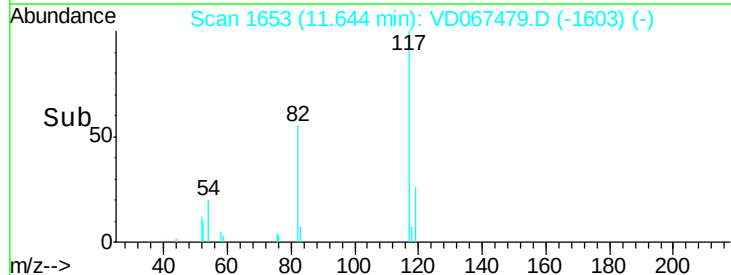
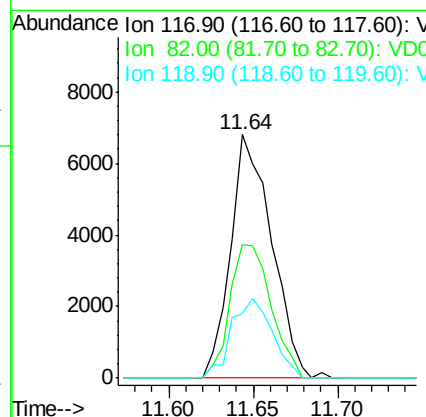
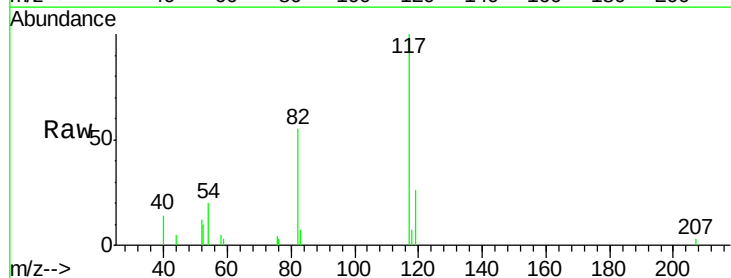
Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

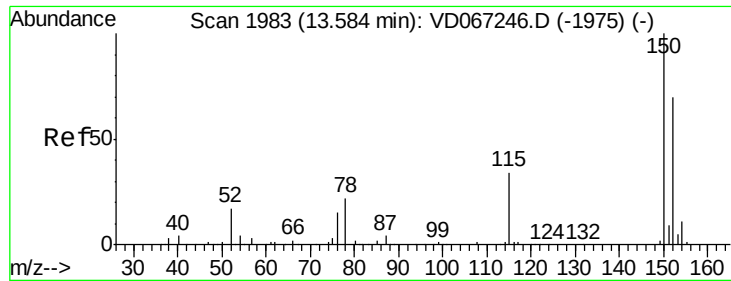
Tot Ion: 95 Resp: 5140
Ion Ratio Lower Upper
95 100
174 87.4 0.0 175.2
176 94.1 0.0 168.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Tgt Ion: 117 Resp: 11520
Ion Ratio Lower Upper
117 100
82 54.7 39.9 59.9
119 26.4 24.9 37.3



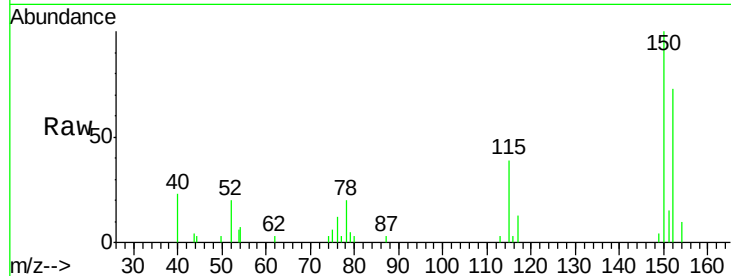


#72

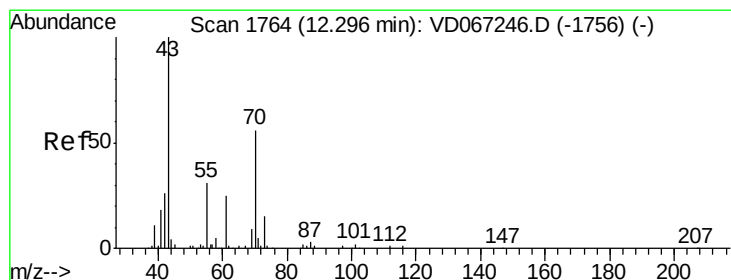
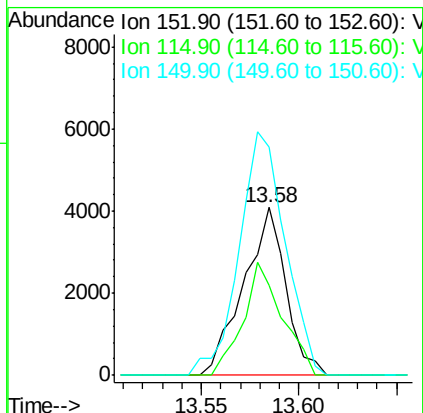
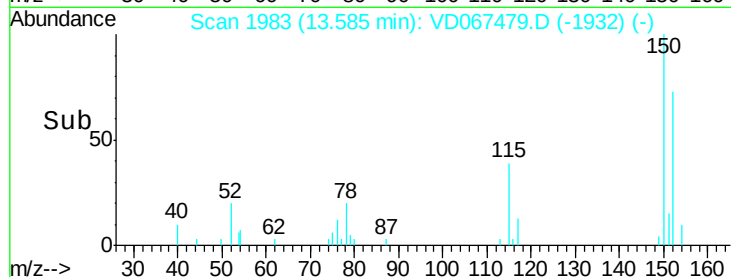
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Instrument :
MSVOA_D
ClientSampleId :
AU-05-102820

Tot Ion:152 Resp: 6131
Ion Ratio Lower Upper
152 100
115 62.3 29.3 87.9
150 158.2 0.0 339.0



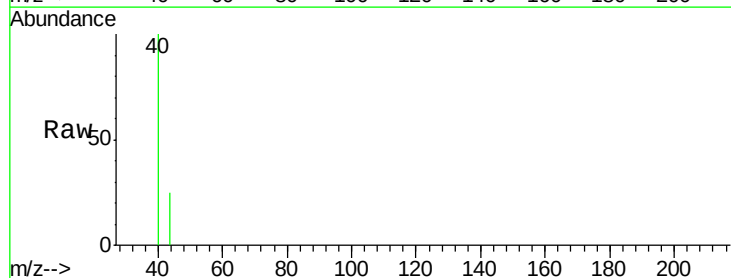
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



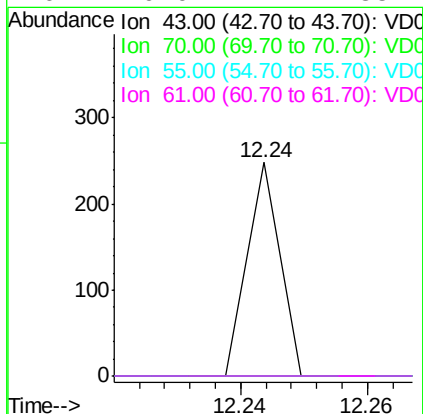
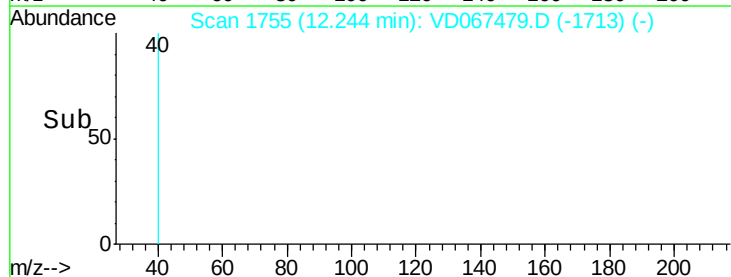
#74

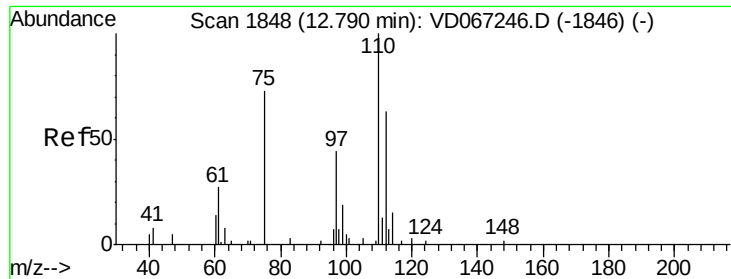
N-ethyl acetate
Concen: 1.497 ug/l
RT: 12.24 min Scan# 1755
Delta R.T. -0.05 min
Lab File: VD067479.D
Acq: 30 Oct 2020 18:26

Tgt Ion: 43 Resp: 88
Ion Ratio Lower Upper
43 100
70 0.0 42.7 64.1#
55 0.0 24.0 36.0#
61 0.0 22.2 33.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 57.820 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

Instrument :

MSVOA_D

ClientSampleId :

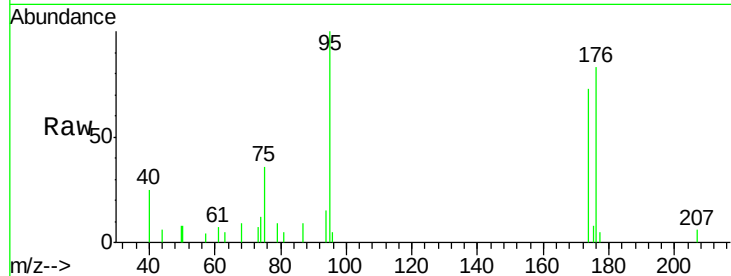
AU-05-102820

Tot Ion: 75 Resp: 2457

Ion Ratio Lower Upper

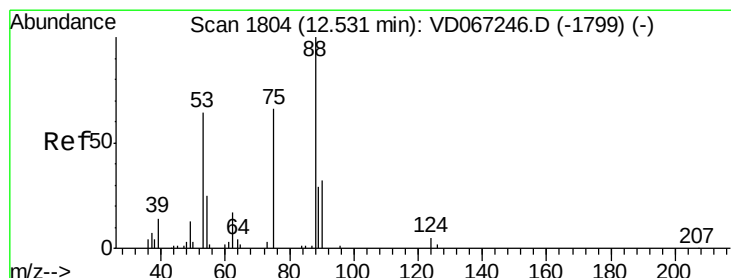
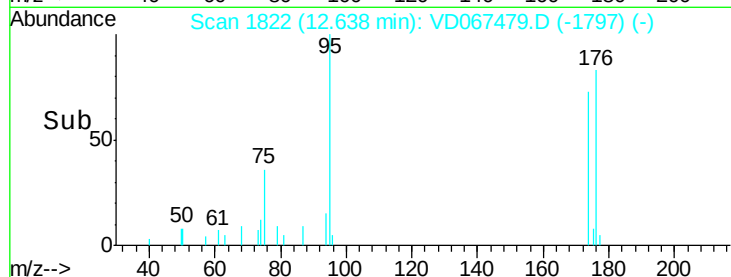
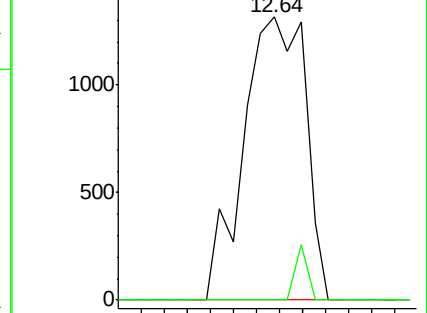
75 100

77 3.7 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: 131.120 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

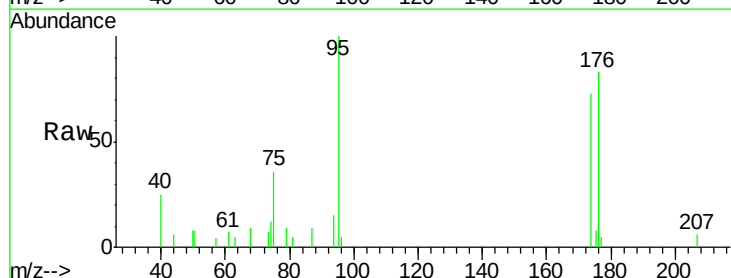
Tgt Ion: 75 Resp: 2457

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

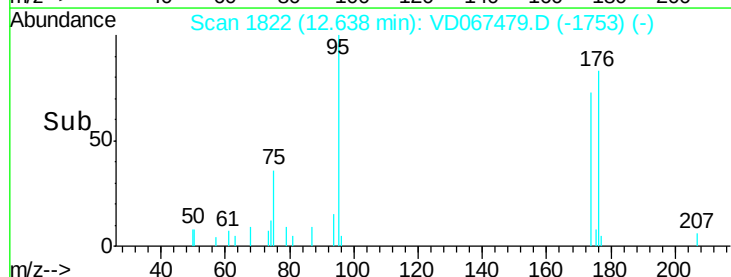
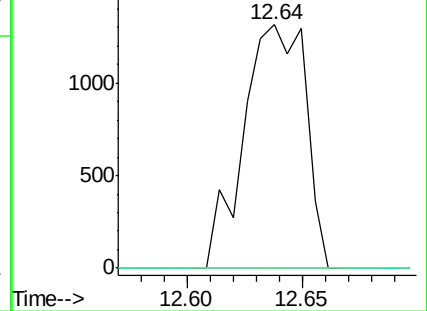
89 0.0 39.9 59.9#

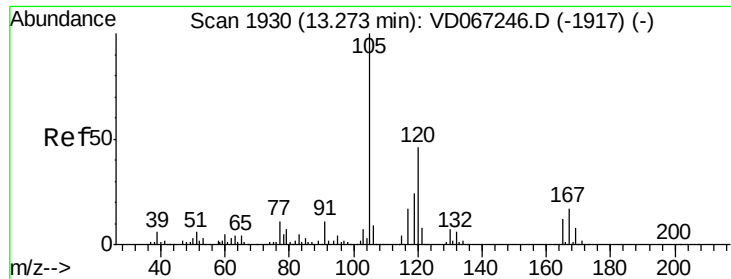


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

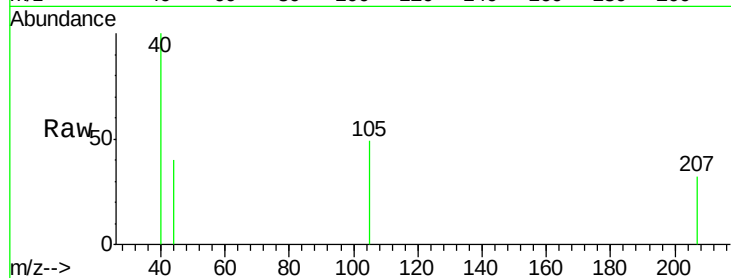




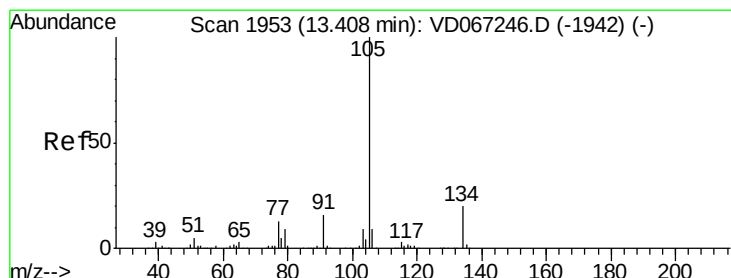
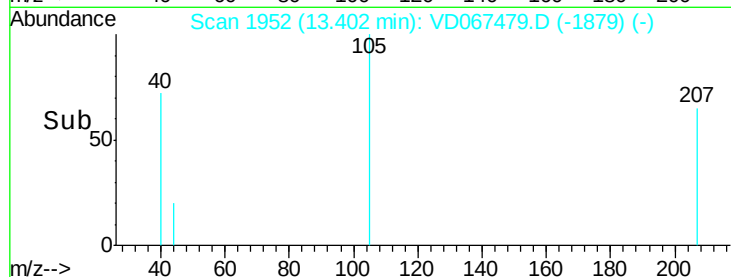
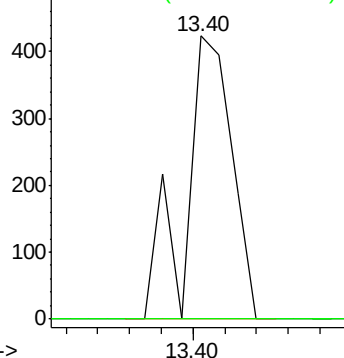
#84
 1,2,4-Trimethylbenzene
 Concen: 1.293 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. 0.13 min
 Lab File: VD067479.D
 Acq: 30 Oct 2020 18:26

Instrument :
 MSVOA_D
 ClientSampleId :
 AU-05-102820

Tot Ion:105 Resp: 432
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.4 67.3#

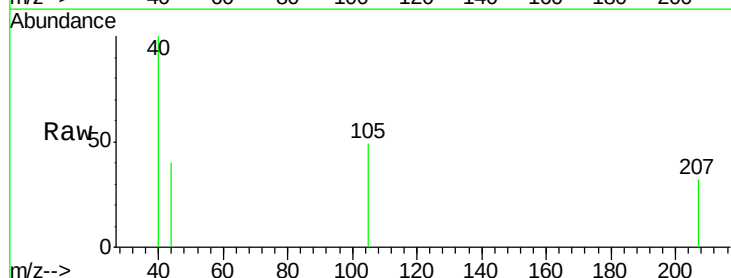


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

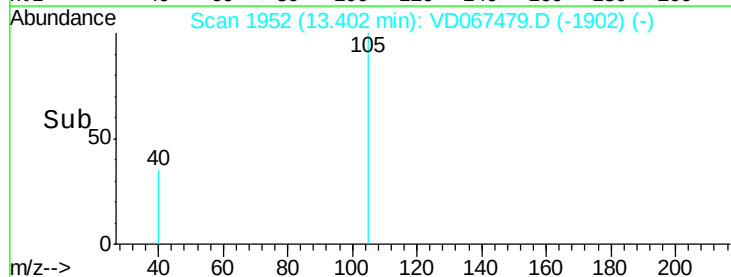
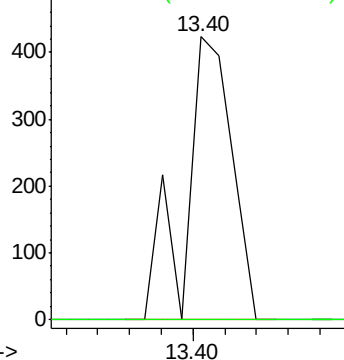


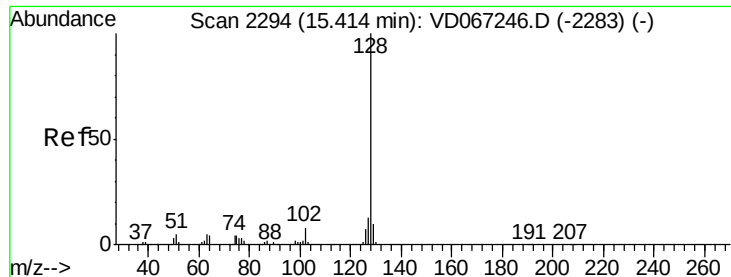
#85
 sec-Butylbenzene
 Concen: 1.102 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. -0.01 min
 Lab File: VD067479.D
 Acq: 30 Oct 2020 18:26

Tgt Ion:105 Resp: 432
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.5 31.5#



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 1.684 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD067479.D

Acq: 30 Oct 2020 18:26

Instrument :

MSVOA_D

ClientSampleId :

AU-05-102820

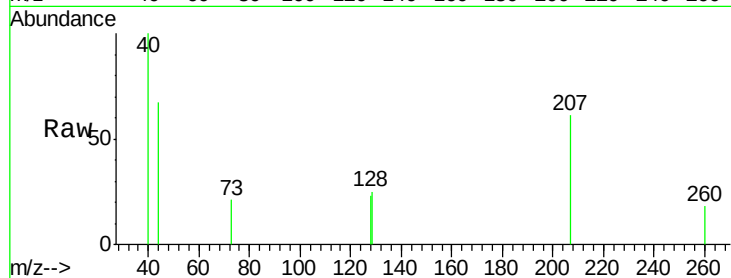
Tot Ion:128 Resp: 304

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

