

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101420\
 Data File : VD067270.D
 Acq On : 14 Oct 2020 16:38
 Operator : VA/SY
 Sample : L4407-02
 Misc : 6.89G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-062-A

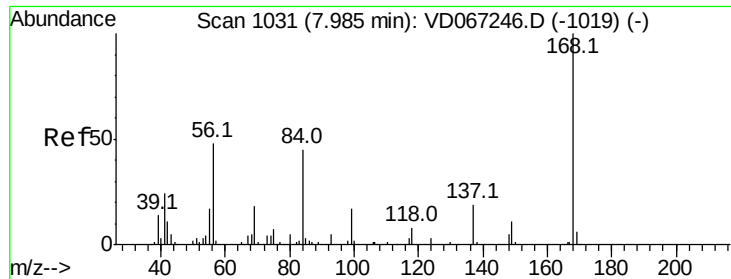
Quant Time: Oct 15 06:13:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 14 03:30:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	353317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	599315	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	559142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	250377	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	178336	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
35) Dibromofluoromethane	7.91	113	194588	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
50) Toluene-d8	10.34	98	705340	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
62) 4-Bromofluorobenzene	12.64	95	232738	46.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	178	Below Cal	#	44
5) Bromomethane	2.79	94	304	Below Cal		84
11) Tert butyl alcohol	5.22	59	62	Below Cal	#	81
20) Methylene Chloride	4.96	84	11010	Below Cal		96
31) Cyclohexane	7.97	56	7259	1.780	ug/l #	36
36) 1,1-Dichloropropene	7.98	75	24879	4.898	ug/l #	49
38) Carbon Tetrachloride	7.98	117	35395	5.452	ug/l #	19
49) 1,4-Dioxane	9.56	88	54	Below Cal	#	27
51) 4-Methyl-2-Pentanone	10.35	43	2526	1.708	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	119240	68.712	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	119240	155.819	ug/l #	10

(#) = 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. -0.01 min

Lab File: VD067270.D

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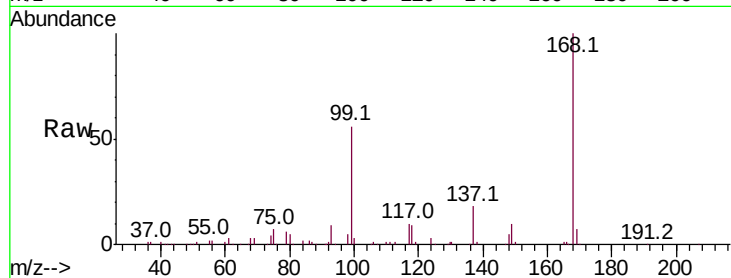
FK-GF-02-062-A

Tot Ion:168 Resp: 353317

Ion Ratio Lower Upper

168 100

99 56.0 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

150000

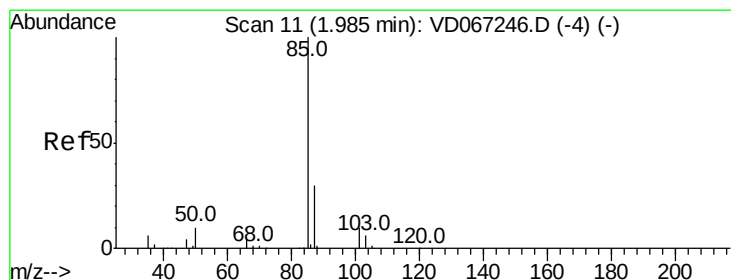
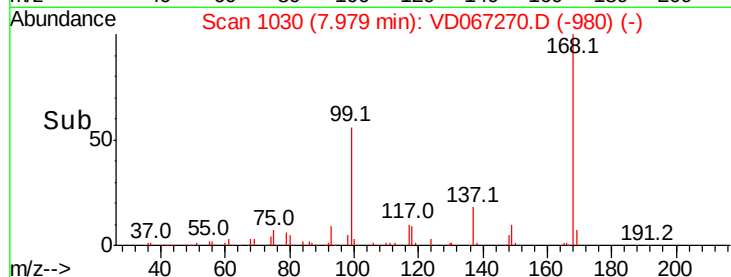
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067270.D

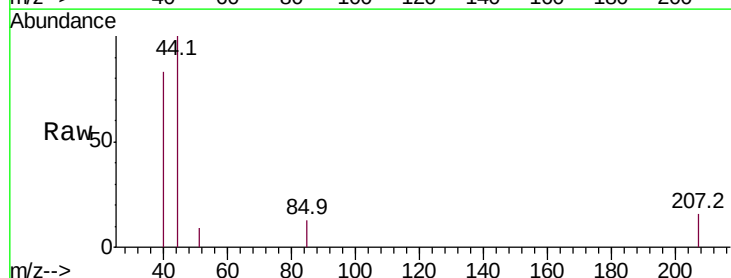
Acq: 14 Oct 2020 16:38

Tgt Ion: 85 Resp: 178

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

1.99

300

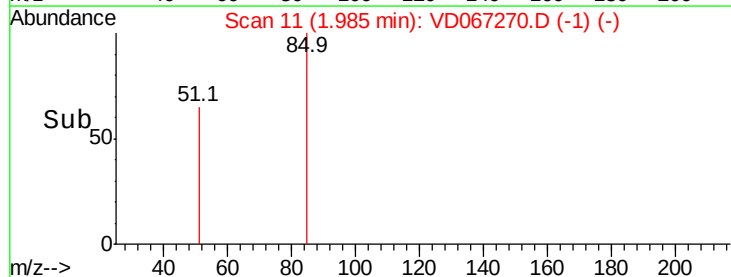
200

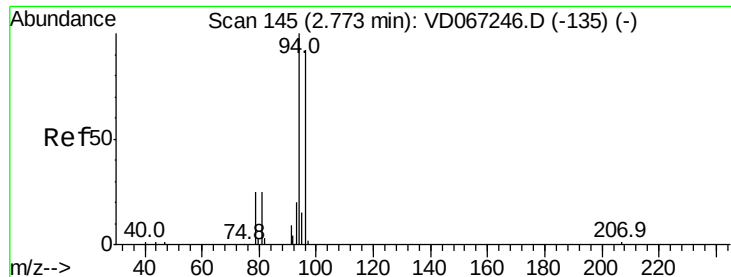
100

0

Time-->

1.96 1.98 2.00





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067270.D

Acq: 14 Oct 2020 16:38

Instrument :

MSVOA_D

ClientSampleId :

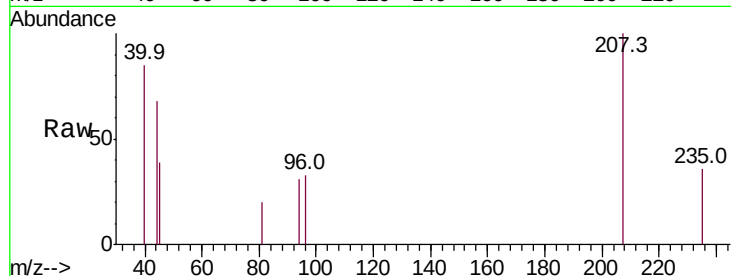
FK-GF-02-062-A

Tot Ion: 94 Resp: 304

Ion Ratio Lower Upper

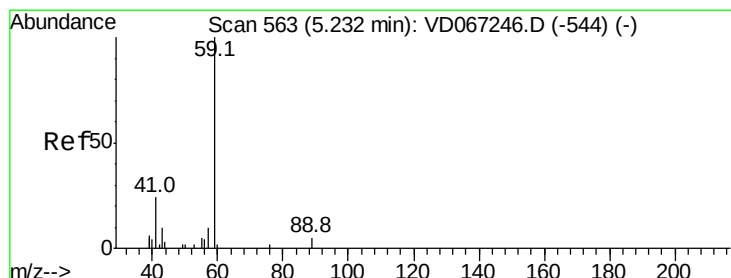
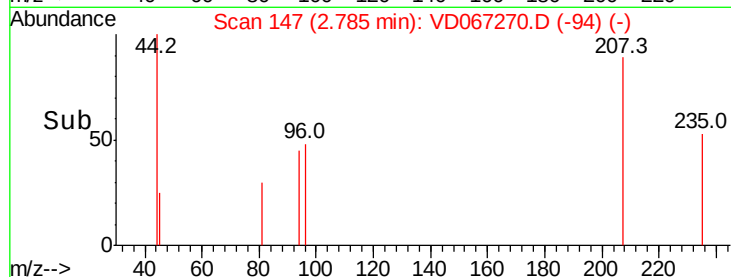
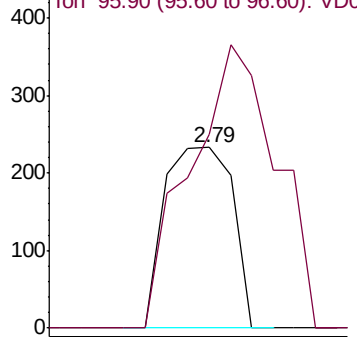
94 100

96 107.3 73.8 110.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD067270.D

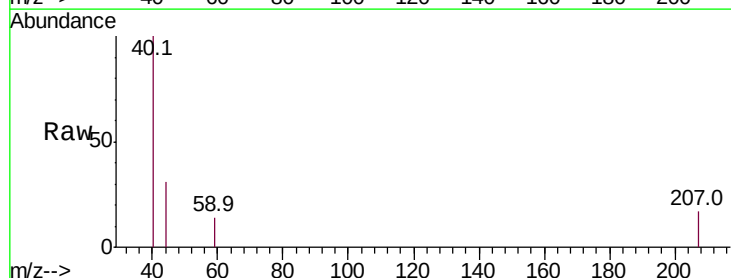
Acq: 14 Oct 2020 16:38

Tgt Ion: 59 Resp: 62

Ion Ratio Lower Upper

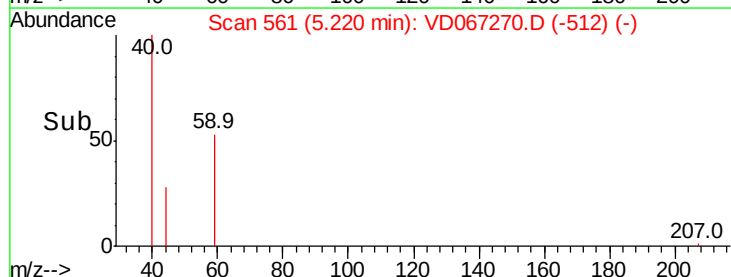
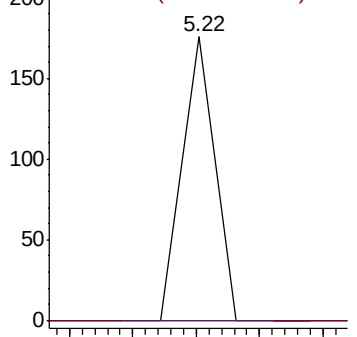
59 100

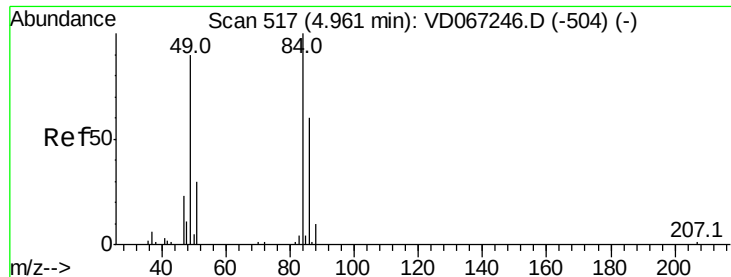
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

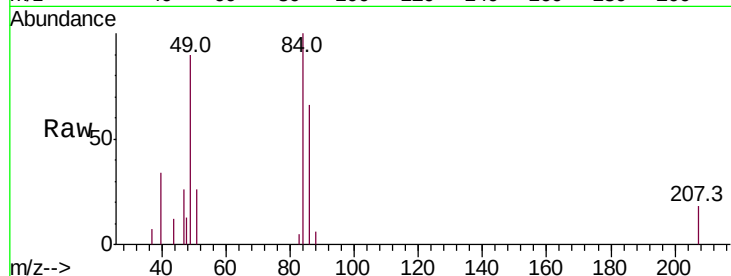




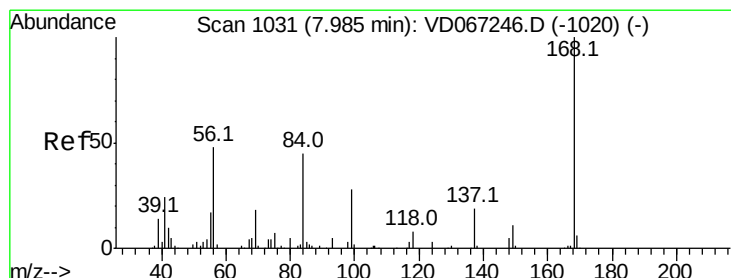
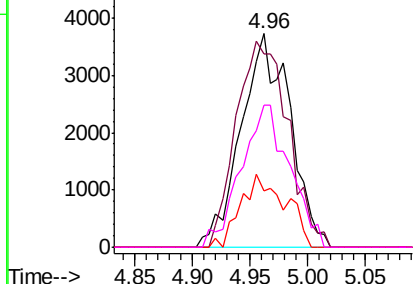
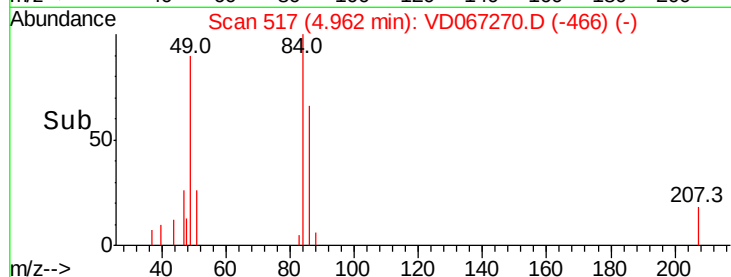
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD067270.D
Acq: 14 Oct 2020 16:38

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-062-A

Tot Ion:	84	Resp:	11010
Ion	Ratio	Lower	Upper
84	100		
49	90.5	72.2	108.2
51	26.1	23.8	35.8
86	66.5	48.2	72.4

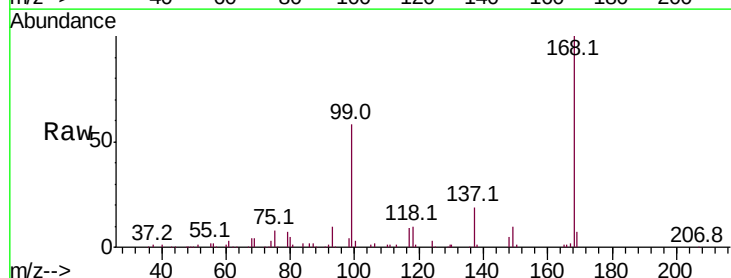


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

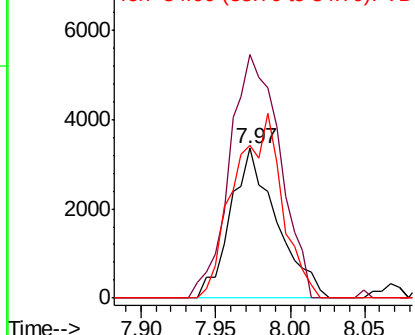
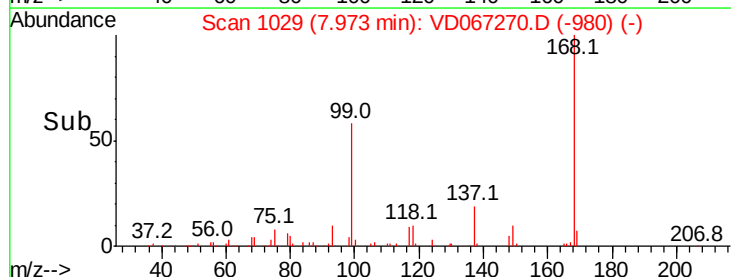


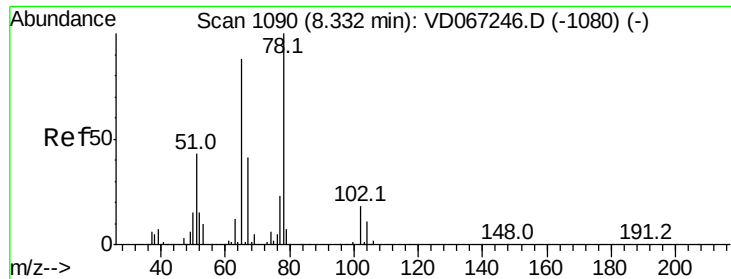
#31
Cyclohexane
Concen: 1.780 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD067270.D
Acq: 14 Oct 2020 16:38

Tgt Ion:	56	Resp:	7259
Ion	Ratio	Lower	Upper
56	100		
69	162.8	29.8	44.6#
84	102.5	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

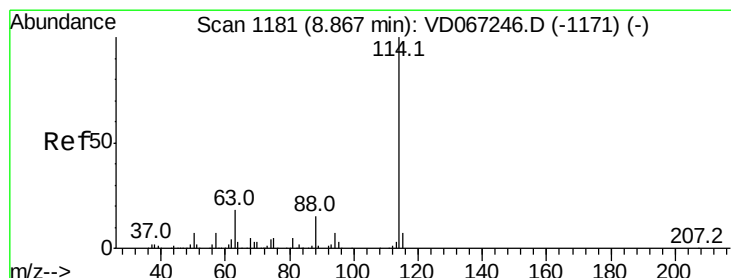
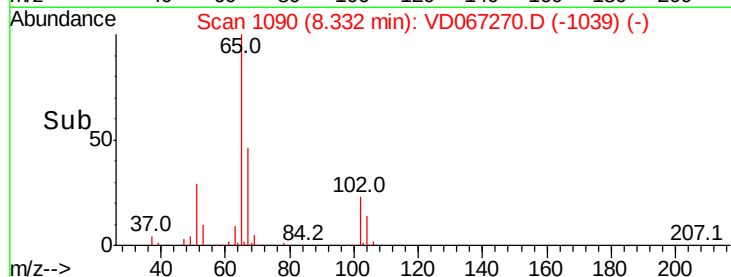
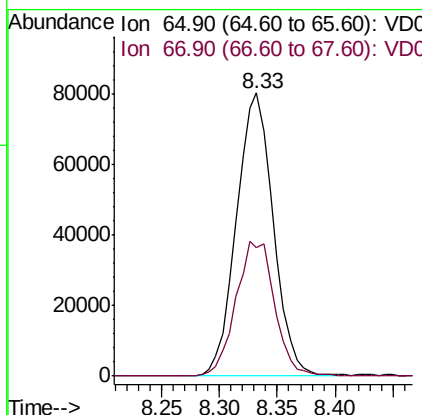
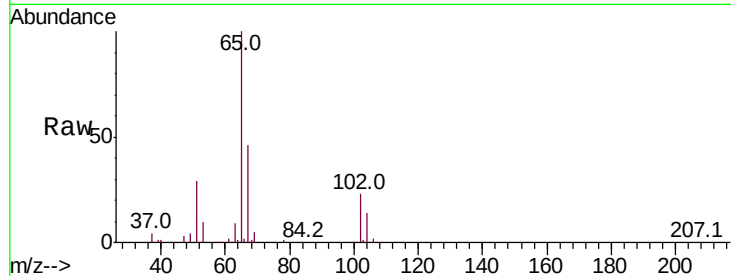




#33
 1,2-Dichloroethane-d4
 Concen: 50.382 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067270.D
 Acq: 14 Oct 2020 16:38

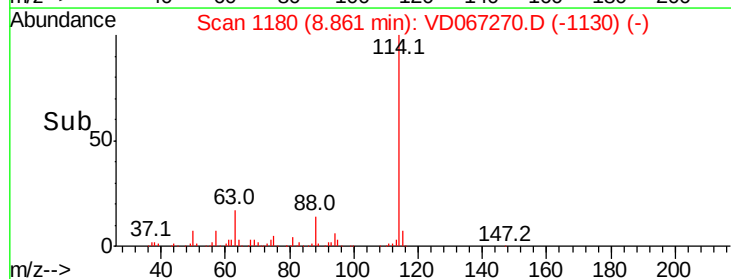
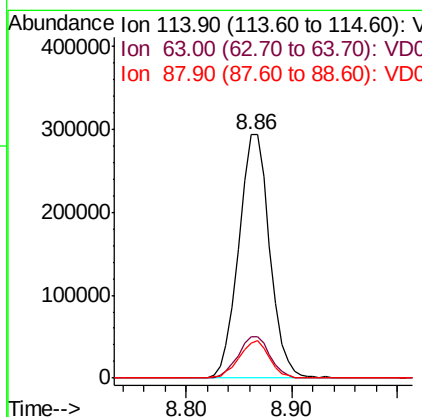
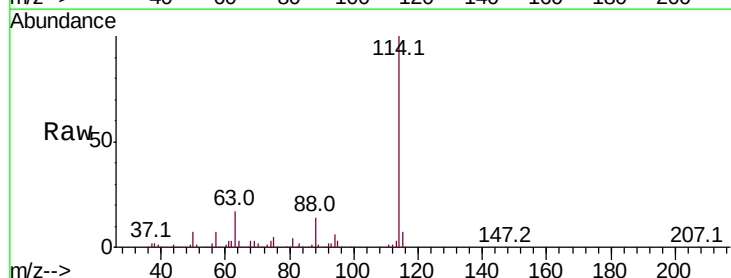
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-062-A

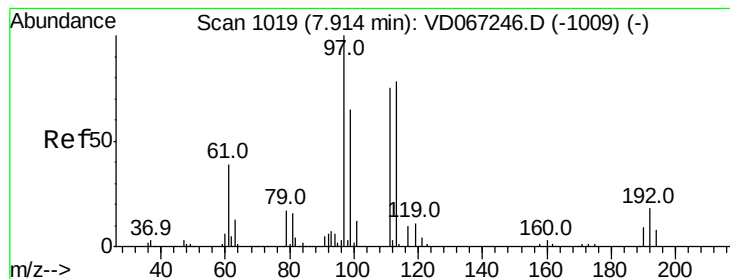
Tot Ion: 65 Resp: 178336
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD067270.D
 Acq: 14 Oct 2020 16:38

Tgt Ion: 114 Resp: 599315
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.0
 88 14.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.788 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067270.D

Acq: 14 Oct 2020 16:38

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-062-A

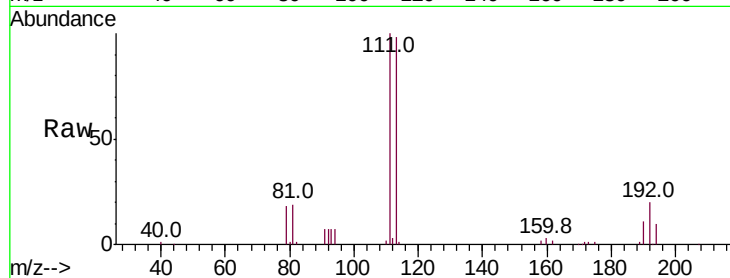
Tot Ion:113 Resp: 194588

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

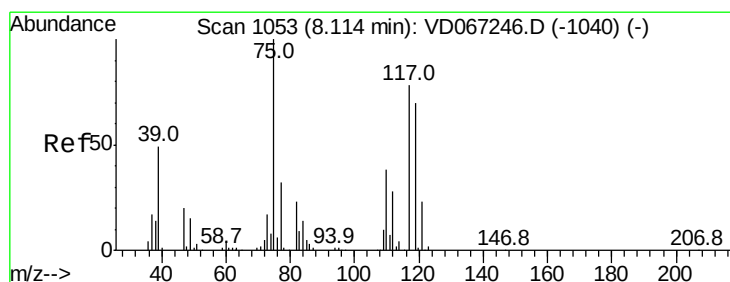
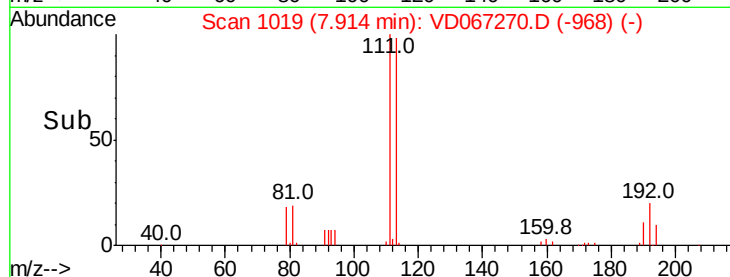
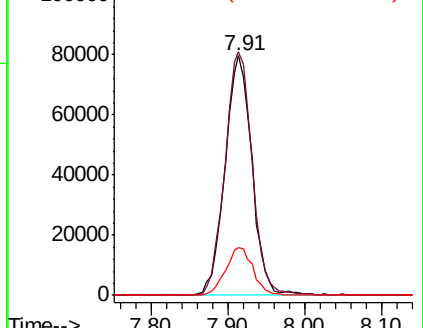
192 20.1 17.0 25.4



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: 4.898 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067270.D

Acq: 14 Oct 2020 16:38

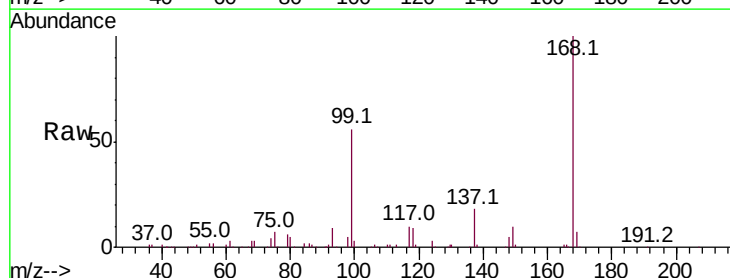
Tgt Ion: 75 Resp: 24879

Ion Ratio Lower Upper

75 100

110 10.2 19.6 58.7#

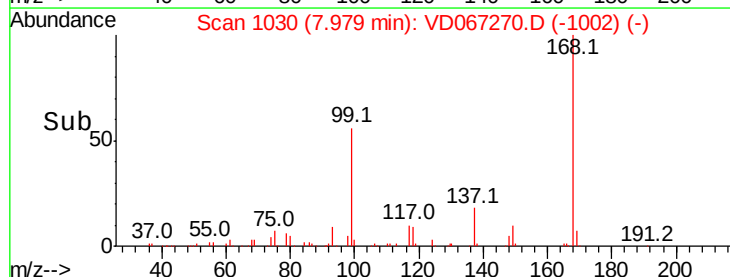
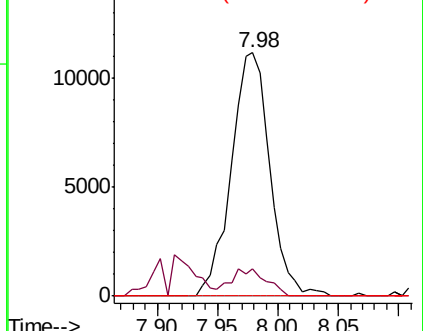
77 0.0 24.6 37.0#

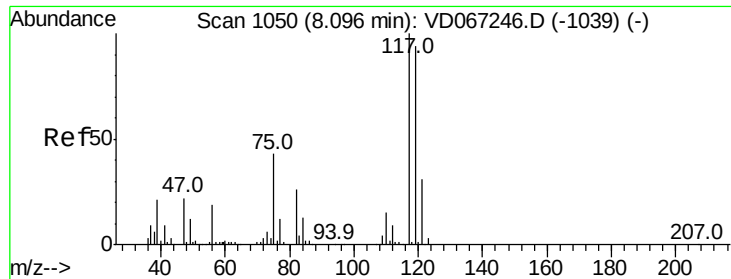


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.452 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067270.D

Acq: 14 Oct 2020 16:38

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-062-A

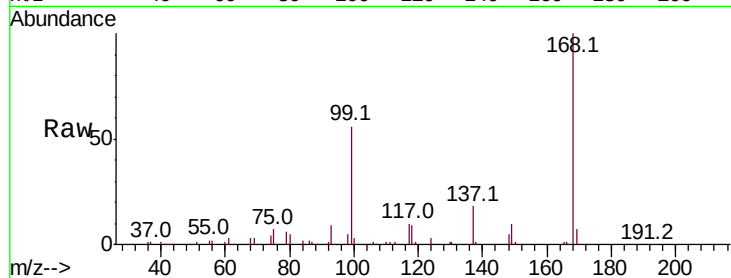
Tot Ion:117 Resp: 35395

Ion Ratio Lower Upper

117 100

119 7.5 75.0 112.4#

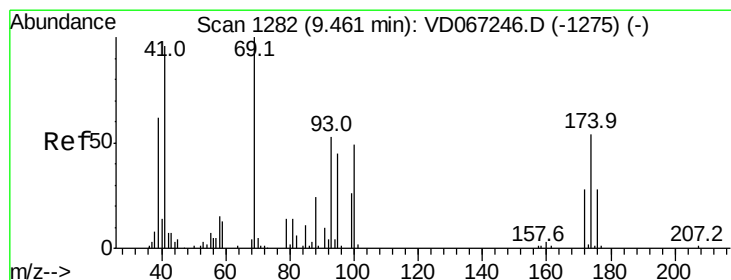
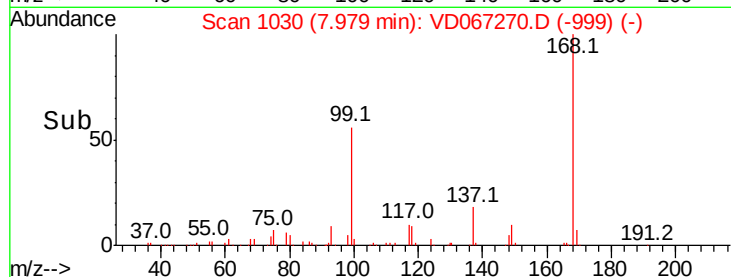
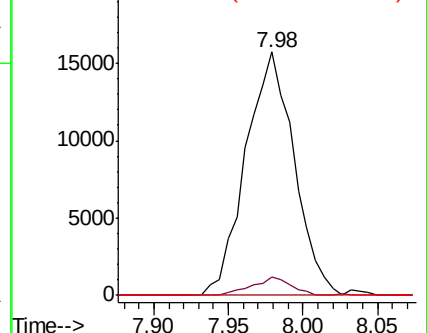
121 0.0 24.9 37.3#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.56 min Scan# 1298

Delta R.T. 0.09 min

Lab File: VD067270.D

Acq: 14 Oct 2020 16:38

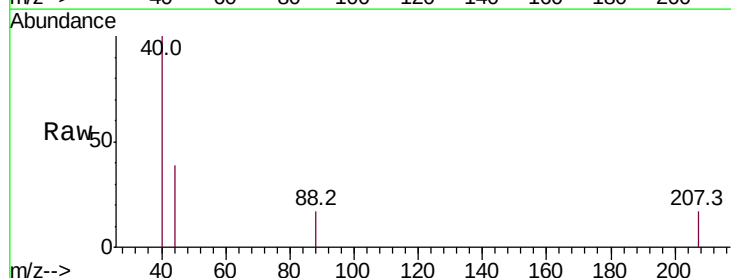
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 0.0 23.9 35.9#

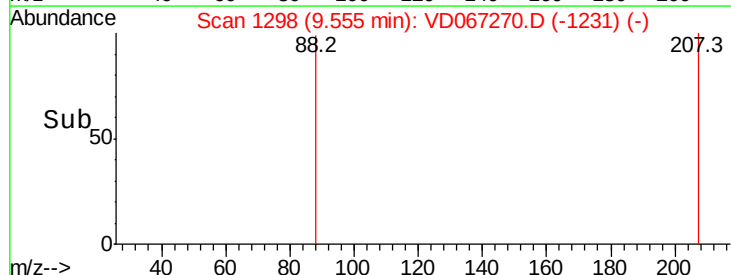
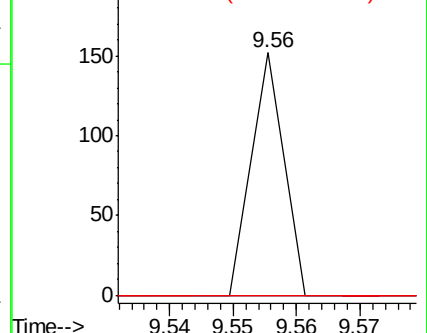
58 0.0 51.0 76.6#

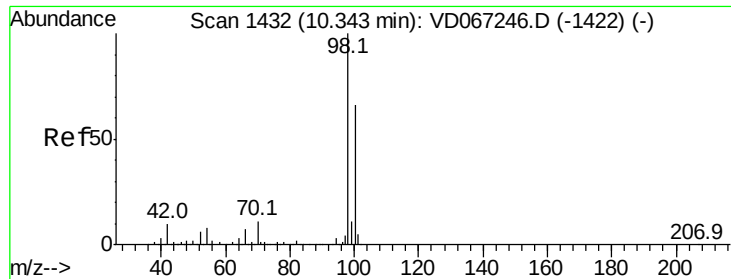


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

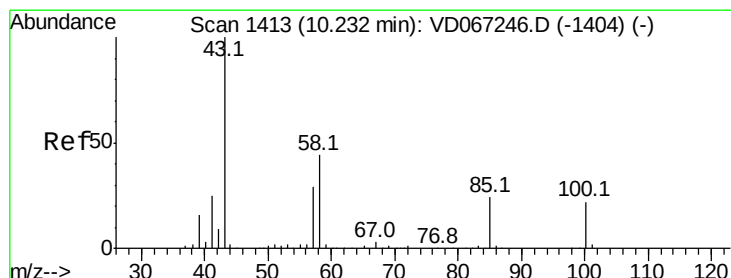
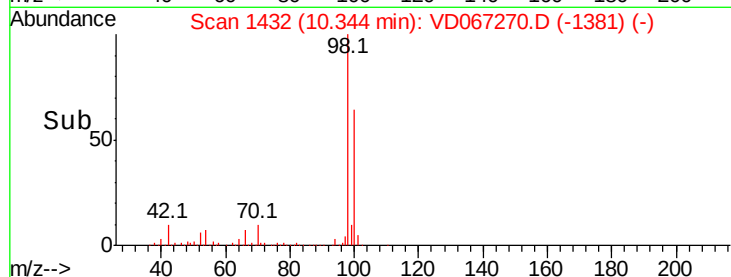
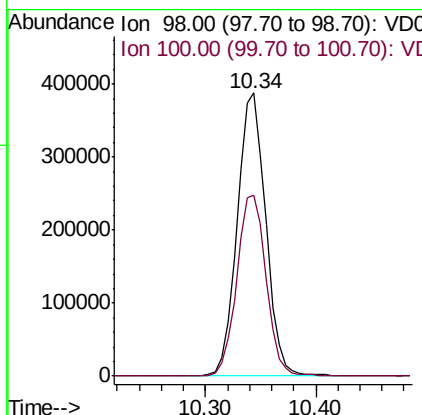
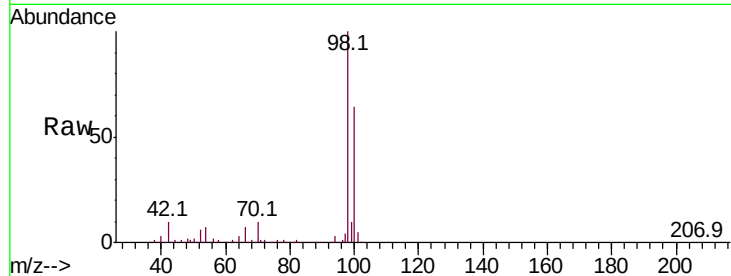




#50
Toluene-d8
Concen: 48.867 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067270.D
Acq: 14 Oct 2020 16:38

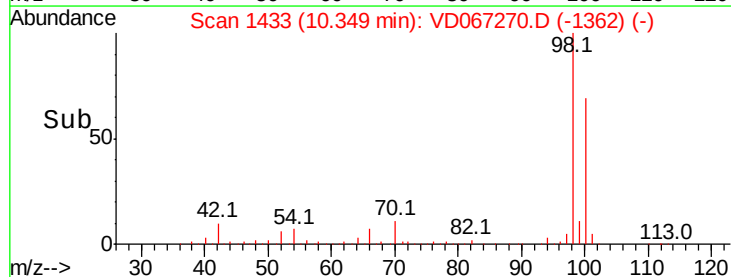
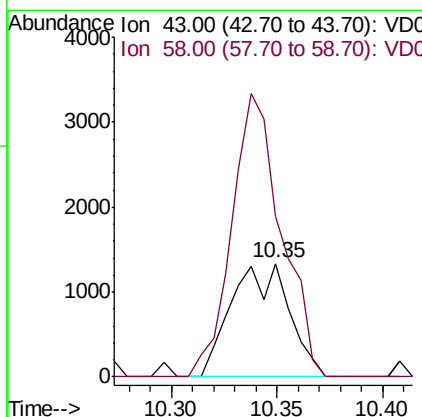
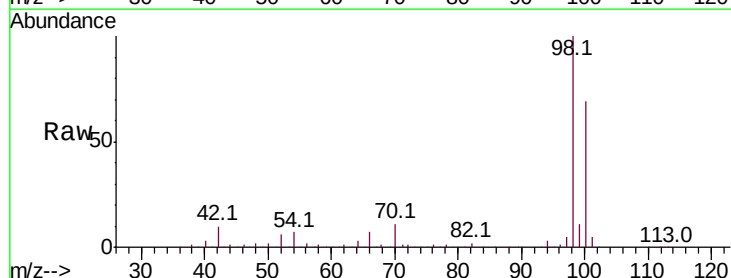
Instrument :
MSVOA_D
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FK-GF-02-062-A

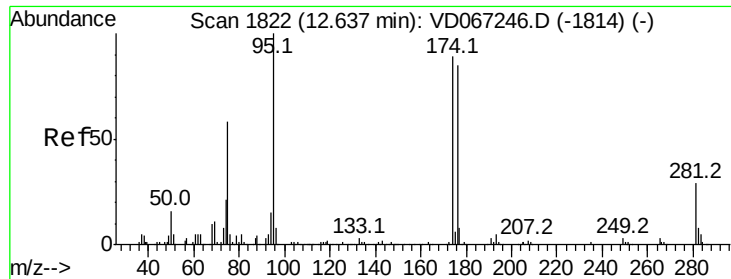
Tot Ion: 98 Resp: 705340
Ion Ratio Lower Upper
98 100
100 65.6 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.708 ug/l
RT: 10.35 min Scan# 1433
Delta R.T. 0.12 min
Lab File: VD067270.D
Acq: 14 Oct 2020 16:38

Tgt Ion: 43 Resp: 2526
Ion Ratio Lower Upper
43 100
58 215.0 35.7 53.5#

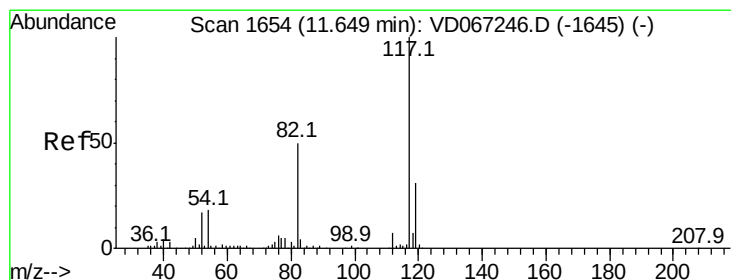
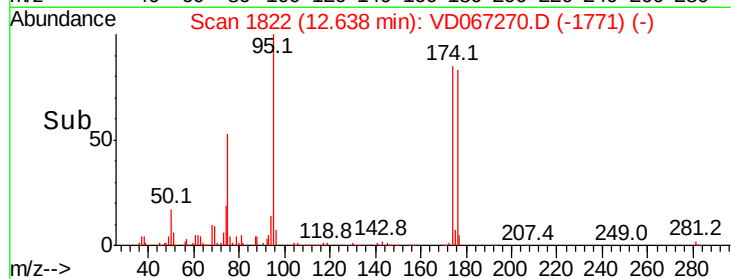
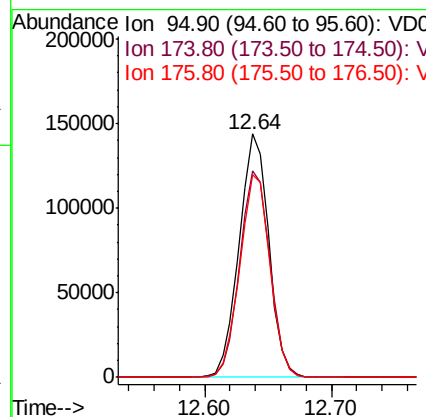
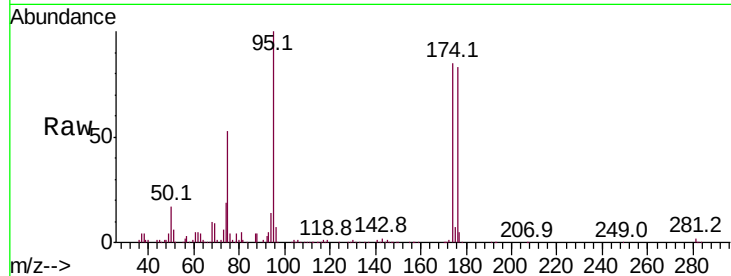




#62
4-Bromofluorobenzene
Concen: 46.372 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067270.D
Acq: 14 Oct 2020 16:38

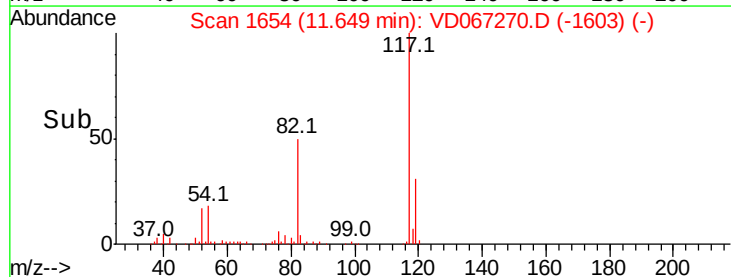
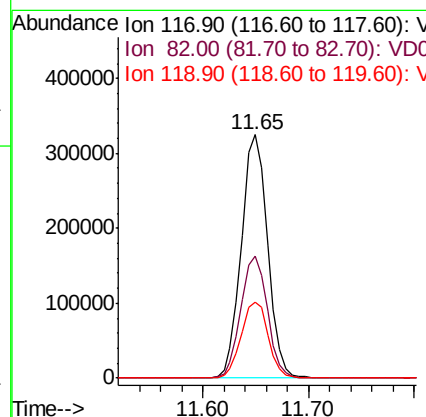
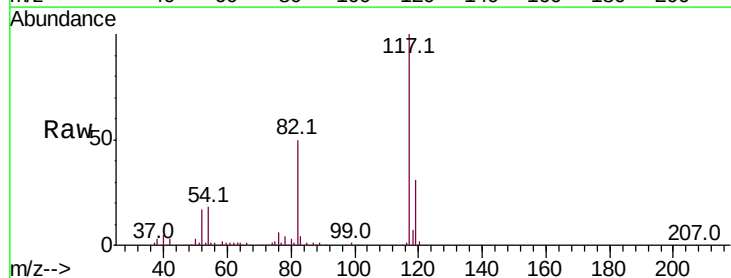
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-062-A

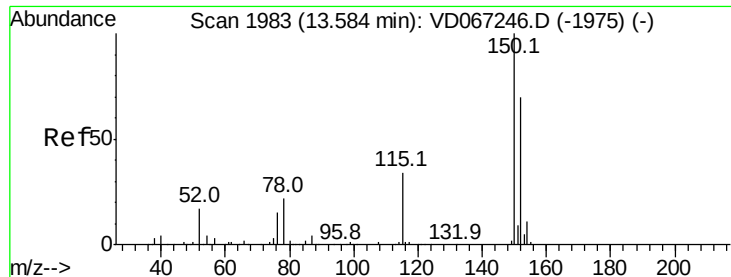
Tot Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	175.2
176	84.5	0.0	168.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067270.D
Acq: 14 Oct 2020 16:38

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.1	39.9	59.9
119	31.4	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: VD067270.D

Acq: 14 Oct 2020 16:38

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-062-A

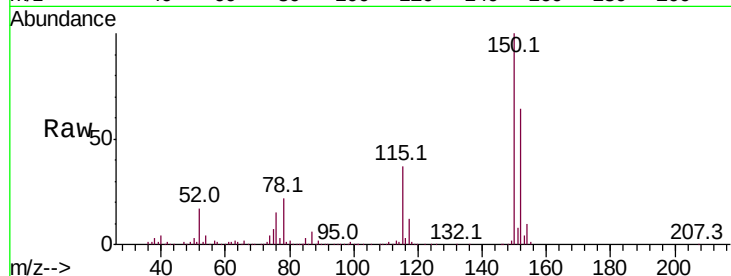
Tot Ion:152 Resp: 250377

Ion Ratio Lower Upper

152 100

115 59.9 29.3 87.9

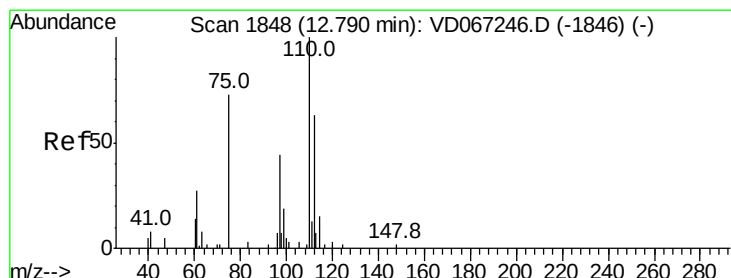
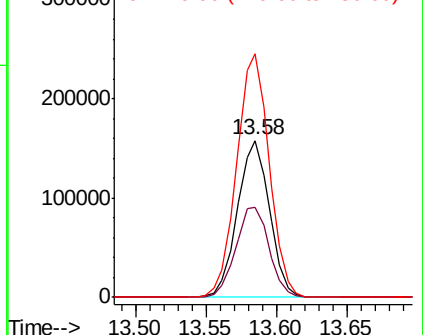
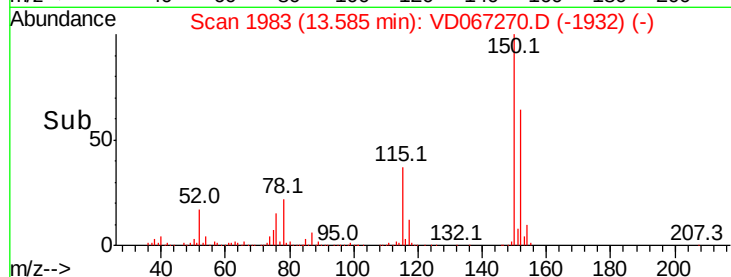
150 157.2 0.0 339.0



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



#76

1,2,3-Trichloropropane

Concen: 68.712 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067270.D

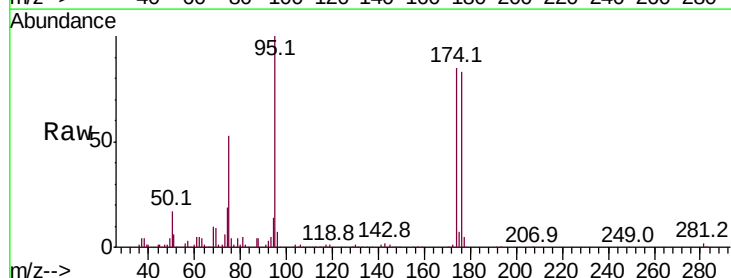
Acq: 14 Oct 2020 16:38

Tgt Ion: 75 Resp: 119240

Ion Ratio Lower Upper

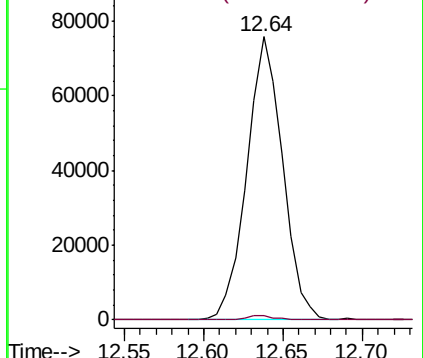
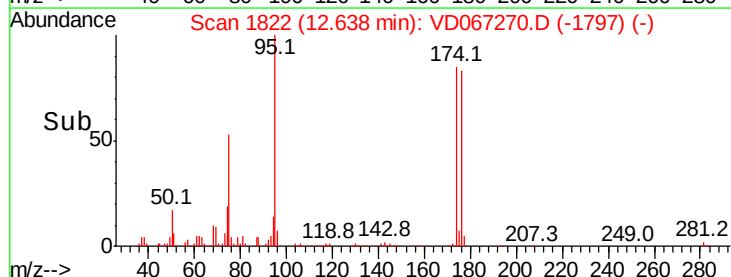
75 100

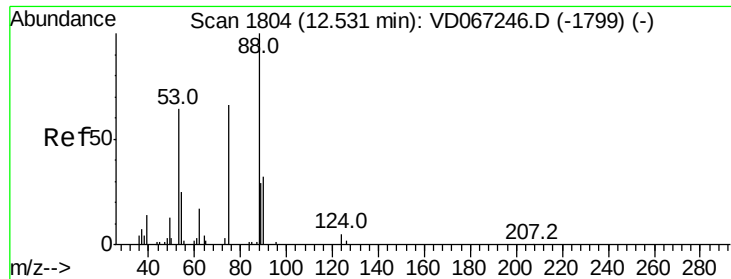
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 155.819 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067270.D

Acq: 14 Oct 2020 16:38

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-062-A

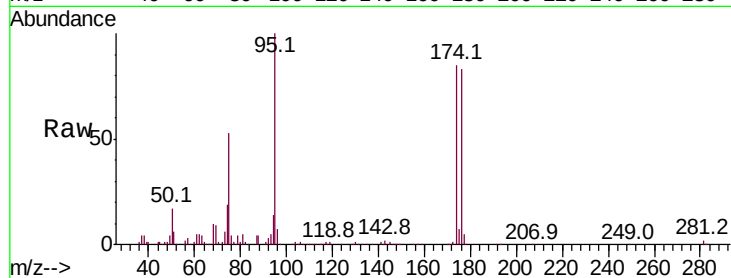
Tot Ion: 75 Resp: 119240

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

