

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041620\
 Data File : VV015538.D
 Acq On : 16 Apr 2020 15:48
 Operator : SY/MD
 Sample : L2320-05
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFRR2

Quant Time: Apr 17 02:12:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 00:46:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	102939	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	97368	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	46128	5.00	ug/L	0.00

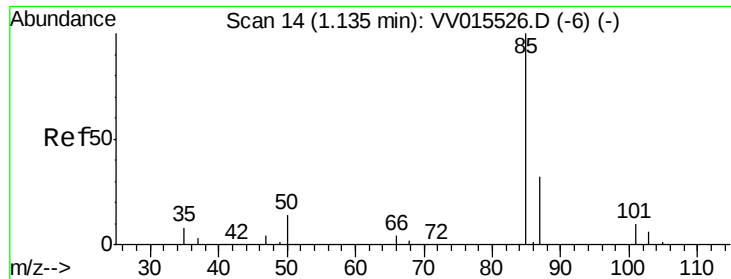
System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	27499	5.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.00%
7) Chloroethane-d5	1.58	69	25493	5.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.60%
11) 1,1-Dichloroethene-d2	2.12	63	43585	3.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.40%
20) 2-Butanone-d5	3.96	46	78914	52.62	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.24%
24) Chloroform-d	4.38	84	58014	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
26) 1,2-Dichloroethane-d4	5.06	65	33717	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
32) Benzene-d6	5.07	84	114450	5.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.00%
36) 1,2-Dichloropropane-d6	6.10	67	35912	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.34	98	103130	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%
43) trans-1,3-Dichloropropene-	7.65	79	14327	4.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.00%
46) 2-Hexanone-d5	8.12	63	66727	47.29	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.58%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	24695	4.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.40%
64) 1,2-Dichlorobenzene-d4	11.65	152	38771	5.24	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	11880	1.166	ug/L	96
9) Trichlorofluoromethane	1.76	101	79460	6.647	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2415	0.358	ug/L	94
12) 1,1-Dichloroethene	2.13	96	6342	0.981	ug/L #	1
17) Methyl tert-butyl Ether	2.79	73	14406	0.834	ug/L	95
18) trans-1,2-Dichloroethene	2.78	96	2535	0.348	ug/L	99
19) 1,1-Dichloroethane	3.21	63	5660	0.412	ug/L	99
22) cis-1,2-Dichloroethene	3.94	96	37363	4.942	ug/L	97
25) Chloroform	4.41	83	5427	0.386	ug/L	95
29) 1,1,1-Trichloroethane	4.63	97	2311	0.183	ug/L	99
31) Carbon tetrachloride	4.86	117	1571	0.143	ug/L	93
34) Trichloroethene	5.94	95	381091	48.585	ug/L	100
47) Tetrachloroethene	8.00	164	274105	47.167	ug/L	98
63) 1,4-Dichlorobenzene	11.30	146	1288	0.085	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 1.166 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV015538.D

Acq: 16 Apr 2020 15:48

Instrument :

MSVOA_V

ClientSampleId :

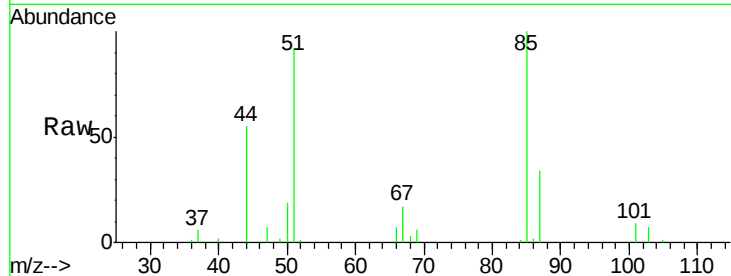
BFRR2

Tot Ion: 85 Resp: 11880

Ion Ratio Lower Upper

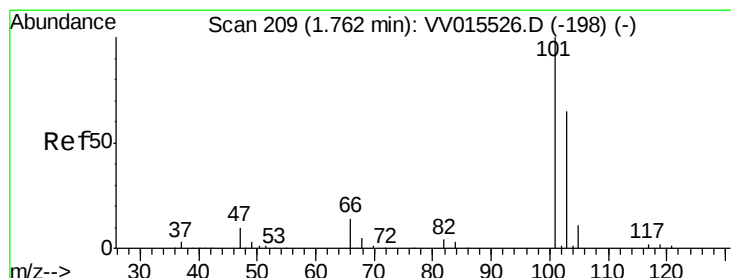
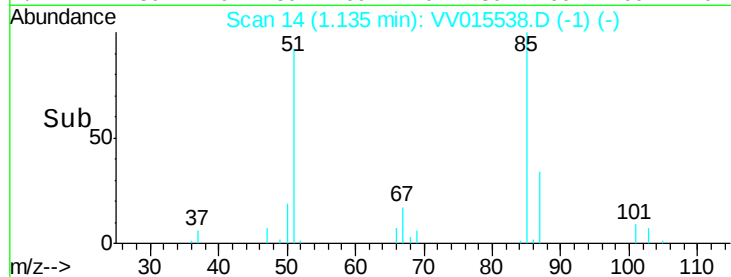
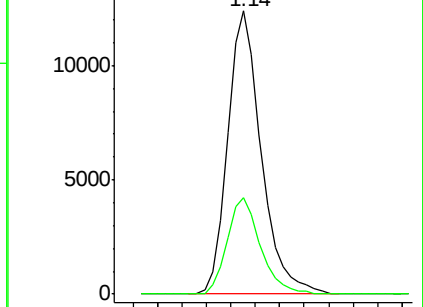
85 100

87 33.8 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV015526.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV015526.D (-6) (-)



#9

Trichlorofluoromethane

Concen: 6.647 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV015538.D

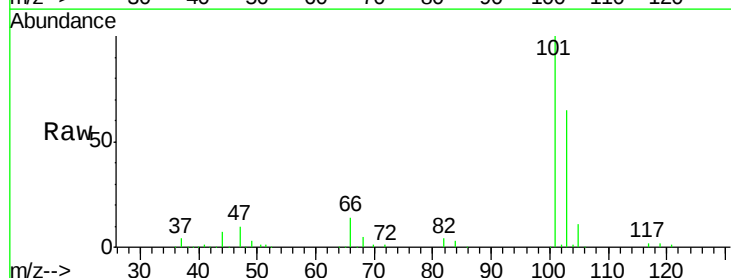
Acq: 16 Apr 2020 15:48

Tgt Ion:101 Resp: 79460

Ion Ratio Lower Upper

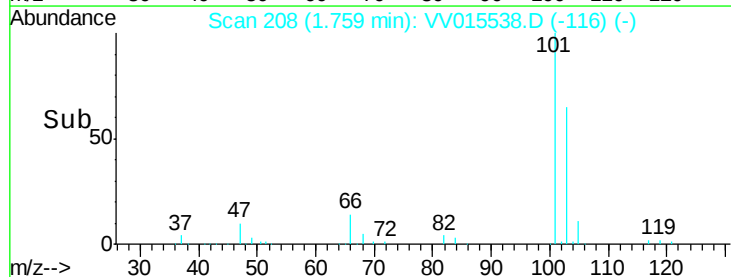
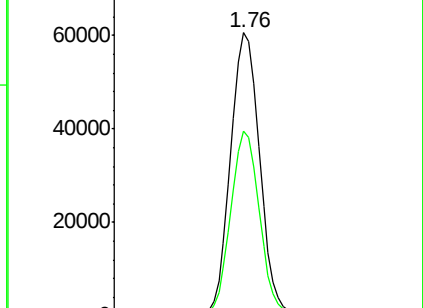
101 100

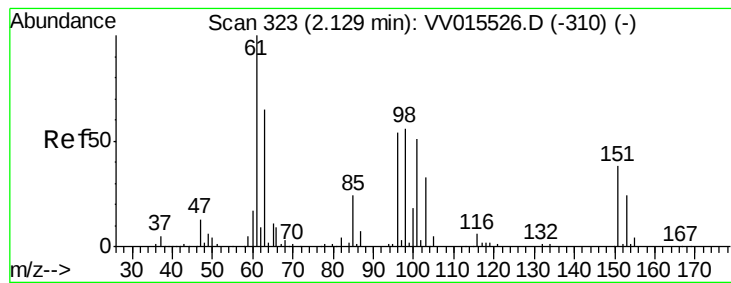
103 64.9 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV015526.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV015526.D (-198) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.358 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015538.D

Acq: 16 Apr 2020 15:48

Instrument :

MSVOA_V

ClientSampleId :

BFRR2

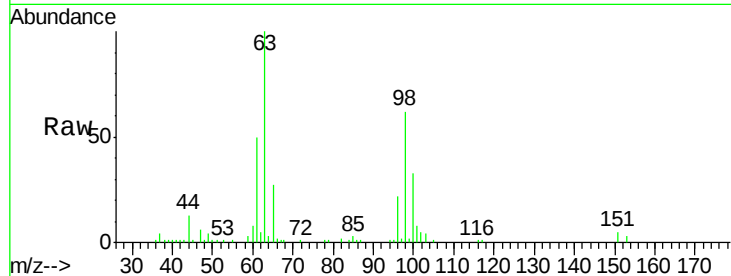
Tot Ion:101 Resp: 2415

Ion Ratio Lower Upper

101 100

85 40.5 36.3 54.5

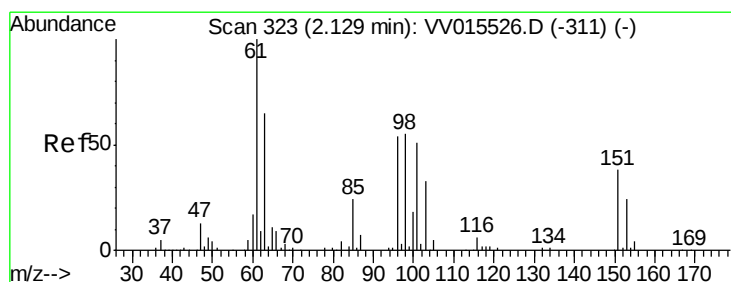
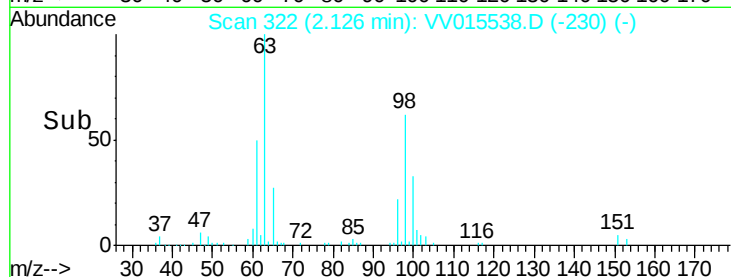
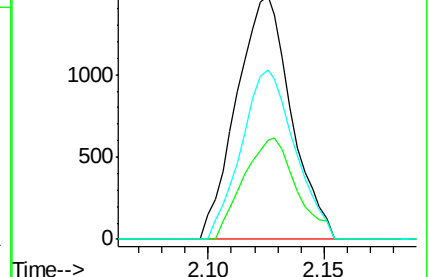
151 68.2 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): VV015526.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV015526.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV015526.D (-310) (-)



#12

1,1-Dichloroethene

Concen: 0.981 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015538.D

Acq: 16 Apr 2020 15:48

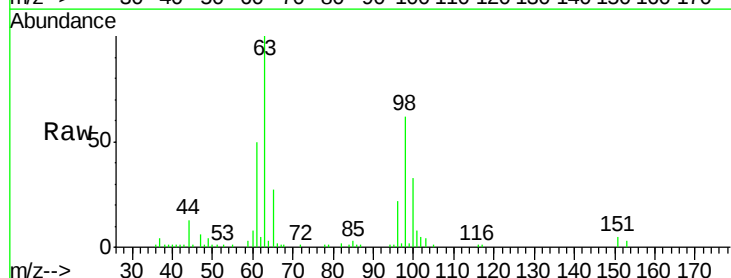
Tgt Ion: 96 Resp: 6342

Ion Ratio Lower Upper

96 100

61 232.5 127.7 237.1

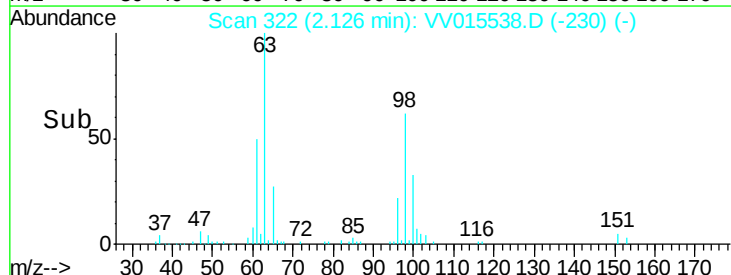
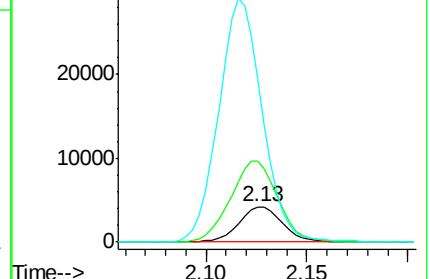
63 464.7 75.1 139.5#

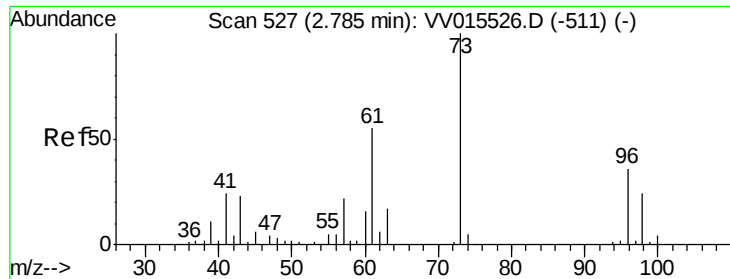


Abundance Ion 96.00 (95.70 to 96.70): VV015526.D (-311) (-)

Ion 61.05 (60.75 to 61.75): VV015526.D (-311) (-)

Ion 63.00 (62.70 to 63.70): VV015526.D (-311) (-)

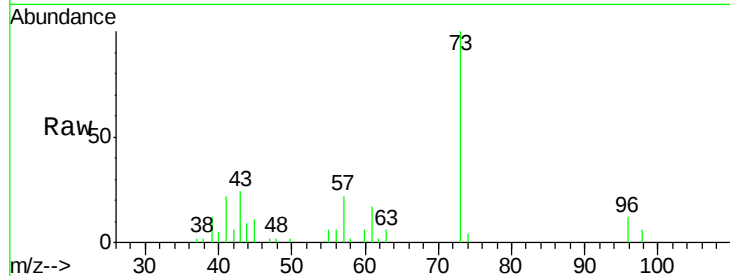




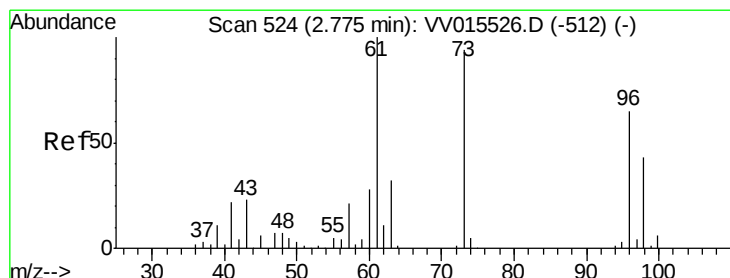
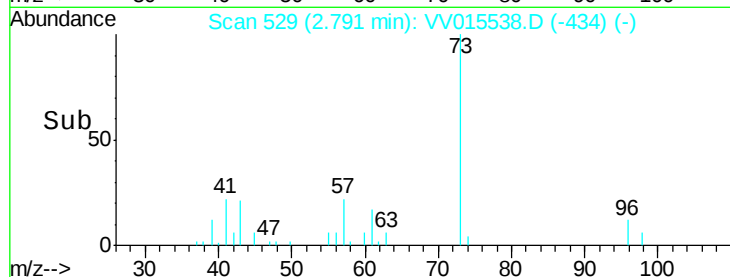
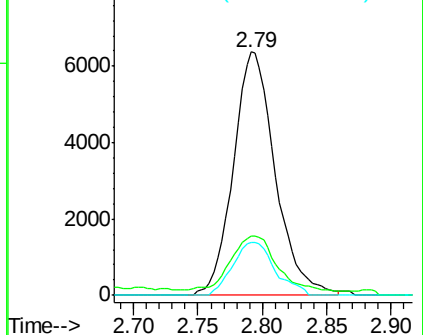
#17
Methvl tert-butvl Ether
Concen: 0.834 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV015538.D
Acq: 16 Apr 2020 15:48

Instrument :
MSVOA_V
ClientSampled :
BFRR2

Tot Ion: 73 Resp: 14406
Ion Ratio Lower Upper
73 100
43 26.5 18.3 27.5
57 21.9 18.4 27.6

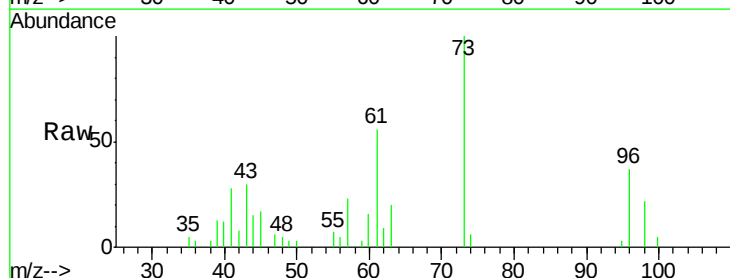


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

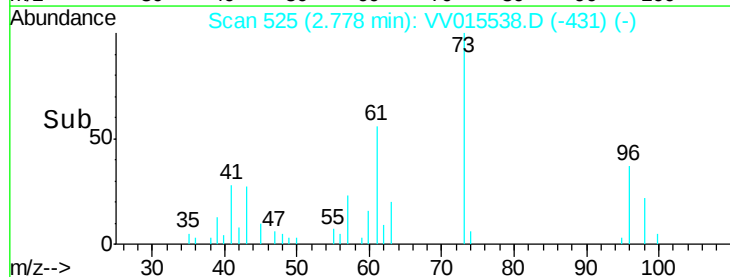
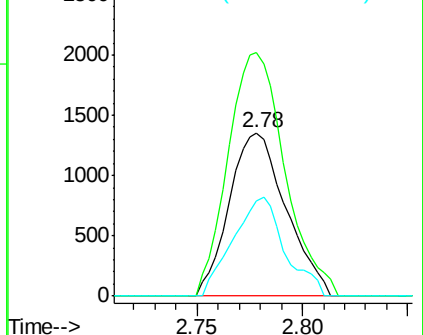


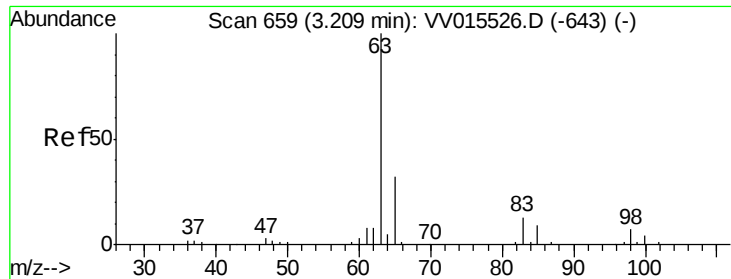
#18
trans-1,2-Dichloroethene
Concen: 0.348 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV015538.D
Acq: 16 Apr 2020 15:48

Tgt Ion: 96 Resp: 2535
Ion Ratio Lower Upper
96 100
61 149.4 104.4 194.0
98 58.4 42.8 79.4



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

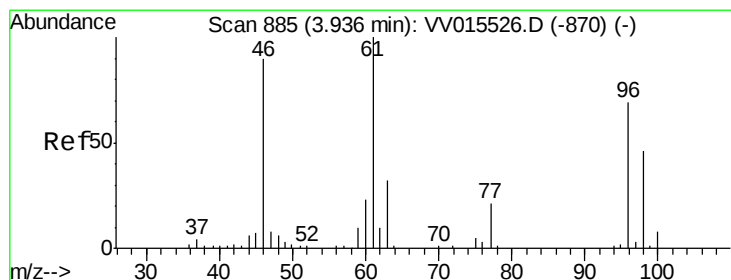
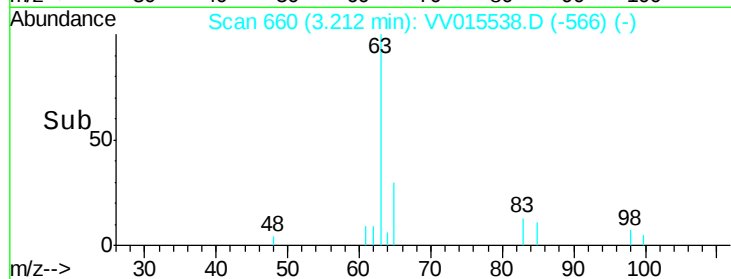
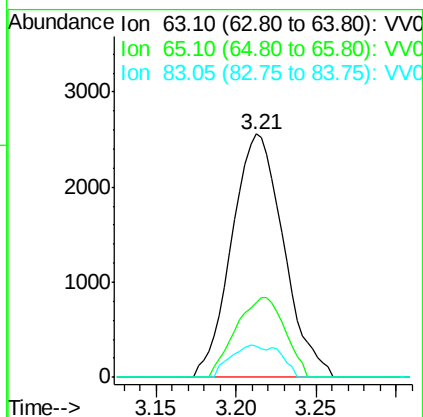
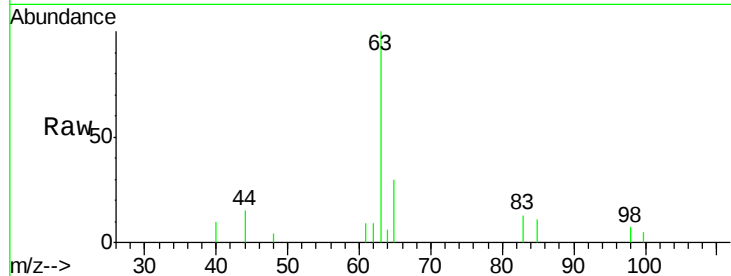




#19
 1,1-Dichloroethane
 Concen: 0.412 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV015538.D
 Acq: 16 Apr 2020 15:48

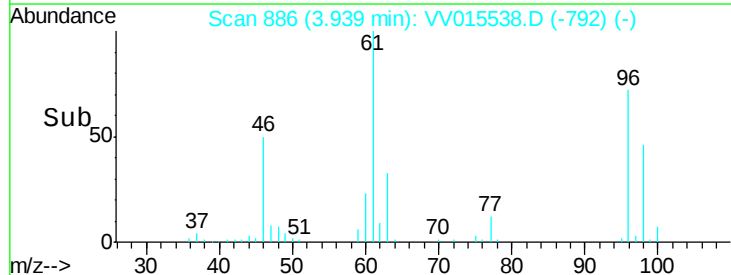
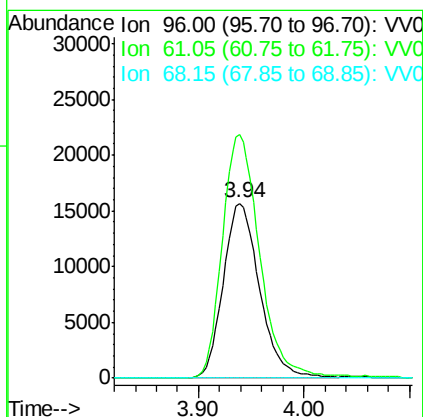
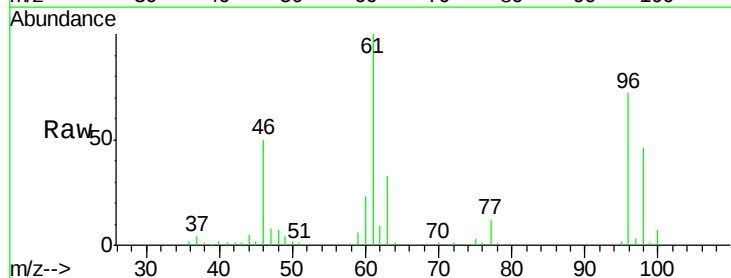
Instrument :
 MSVOA_V
 ClientSampleId :
 BFRR2

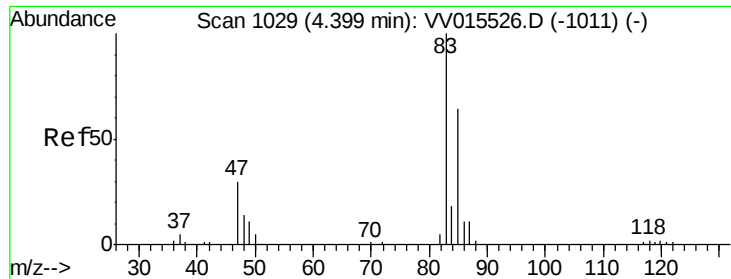
Tot Ion: 63 Resp: 5660
 Ion Ratio Lower Upper
 63 100
 65 30.4 21.3 39.6
 83 12.9 9.4 17.6



#22
 cis-1,2-Dichloroethene
 Concen: 4.942 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV015538.D
 Acq: 16 Apr 2020 15:48

Tgt Ion: 96 Resp: 37363
 Ion Ratio Lower Upper
 96 100
 61 139.4 100.0 185.8
 68 0.0 0.0 0.0

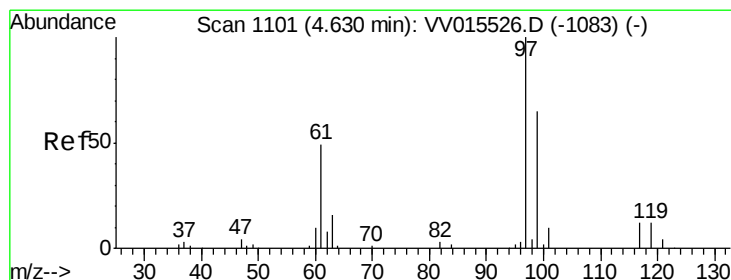
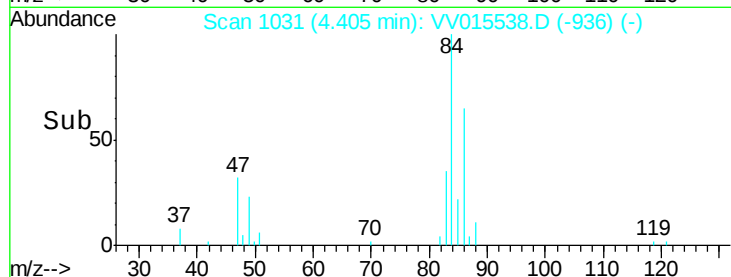
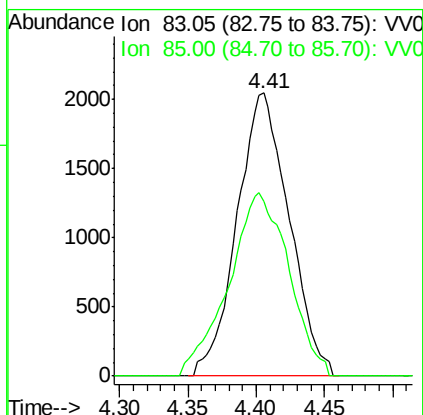
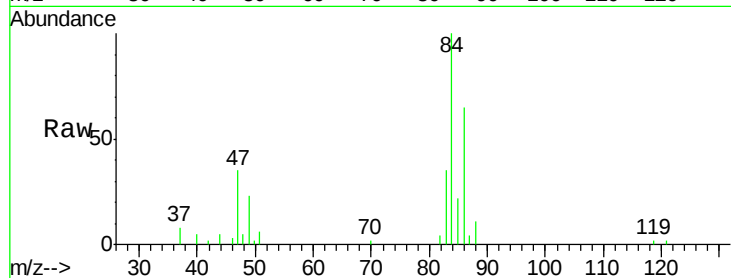




#25
Chloroform
Concen: 0.386 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV015538.D
Acq: 16 Apr 2020 15:48

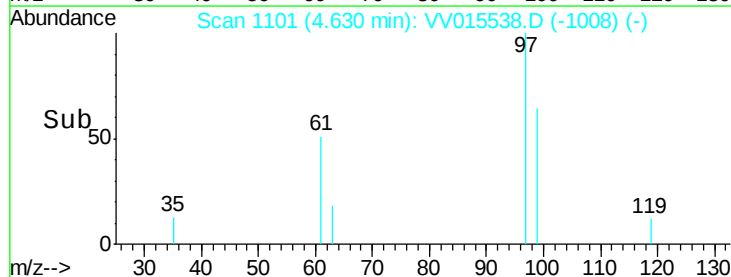
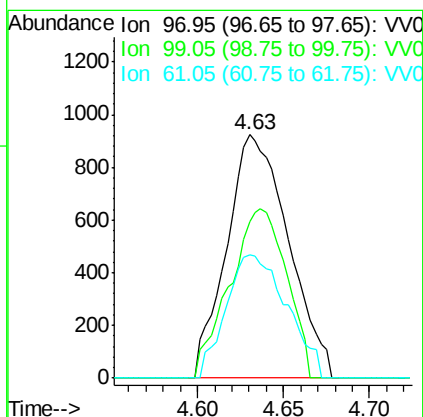
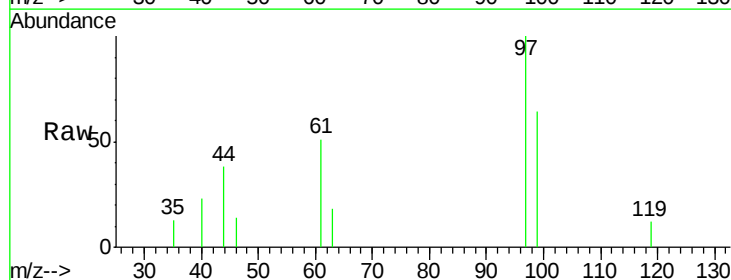
Instrument :
MSVOA_V
ClientSampled :
BFRR2

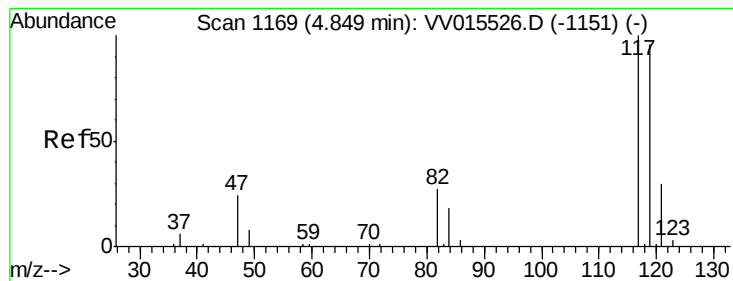
Tot Ion: 83 Resp: 5427
Ion Ratio Lower Upper
83 100
85 61.9 45.9 85.3



#29
1,1,1-Trichloroethane
Concen: 0.183 ug/L
RT: 4.63 min Scan# 1101
Delta R.T. 0.00 min
Lab File: VV015538.D
Acq: 16 Apr 2020 15:48

Tgt Ion: 97 Resp: 2311
Ion Ratio Lower Upper
97 100
99 64.0 51.6 77.4
61 49.5 39.0 58.6





#31

Carbon tetrachloride

Concen: 0.143 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.01 min

Lab File: VV015538.D

Acq: 16 Apr 2020 15:48

Instrument :

MSVOA_V

ClientSampleId :

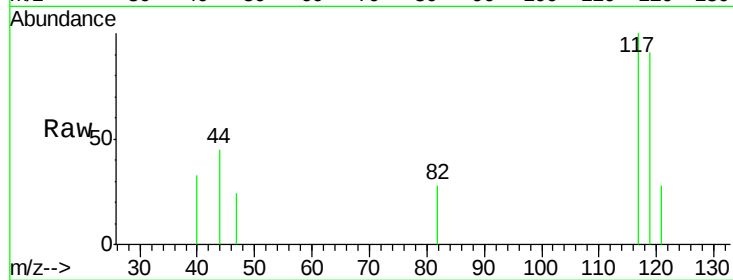
BFRR2

Tot Ion:117 Resp: 1571

Ion Ratio Lower Upper

117 100

119 102.2 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.86

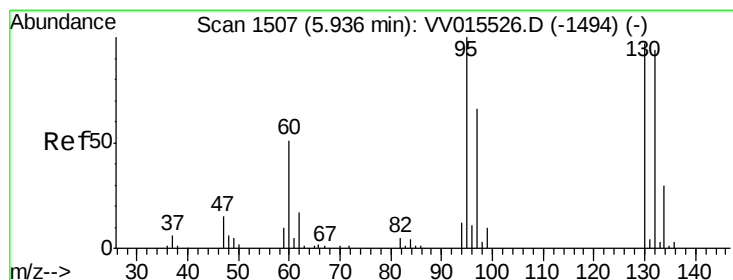
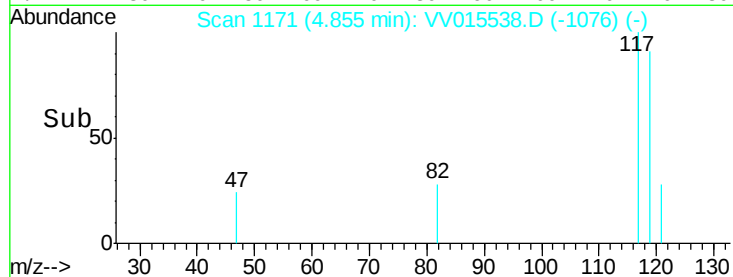
600

400

200

0

Time-->



#34

Trichloroethene

Concen: 48.585 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV015538.D

Acq: 16 Apr 2020 15:48

Tgt Ion: 95 Resp: 381091

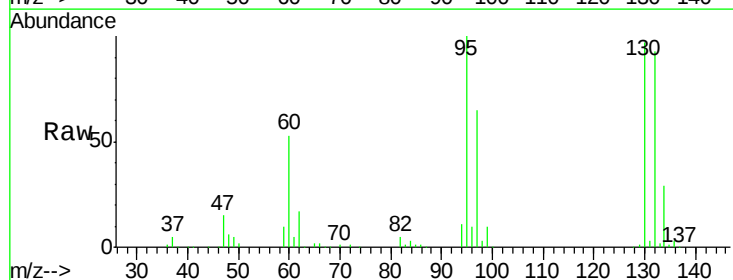
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.4

132 92.8 64.8 120.4

130 96.7 67.4 125.2



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

300000

250000

200000

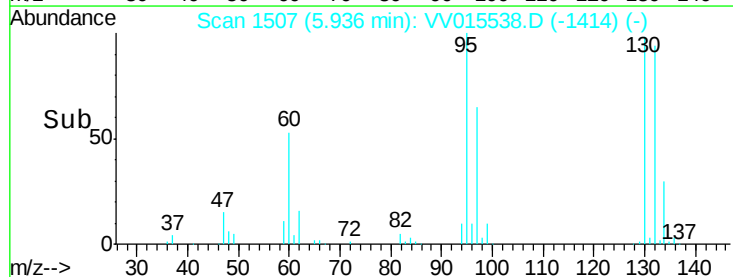
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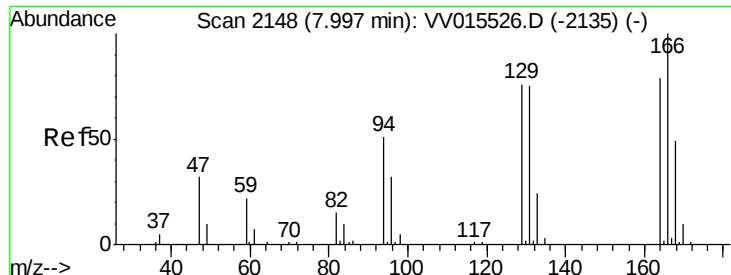
100000

50000

0

Time-->





#47

Tetrachloroethene

Concen: 47.167 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015538.D

Acq: 16 Apr 2020 15:48

Instrument :
MSVOA_V
ClientSampleId :
BFRR2

Tot Ion:164 Resp: 274105

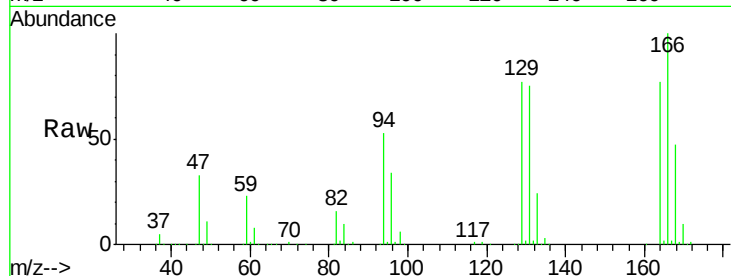
Ion Ratio Lower Upper

164 100

129 99.7 70.6 131.0

131 96.5 68.3 126.8

166 129.4 88.3 163.9

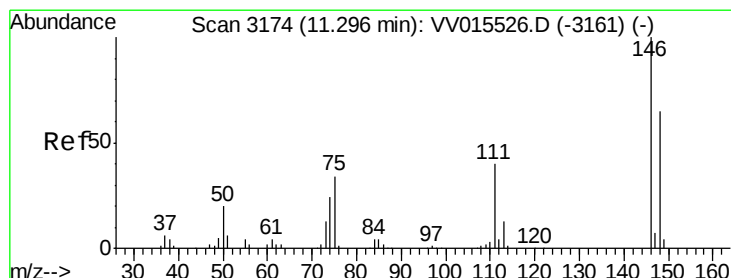
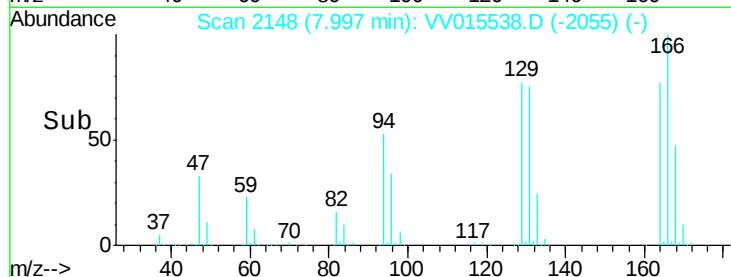
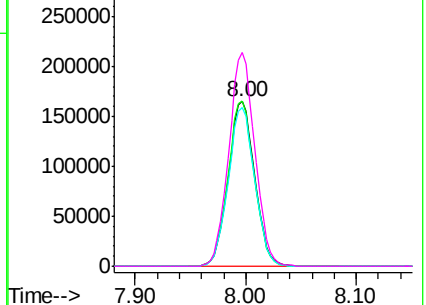


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#63

1,4-Dichlorobenzene

Concen: 0.085 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.00 min

Lab File: VV015538.D

Acq: 16 Apr 2020 15:48

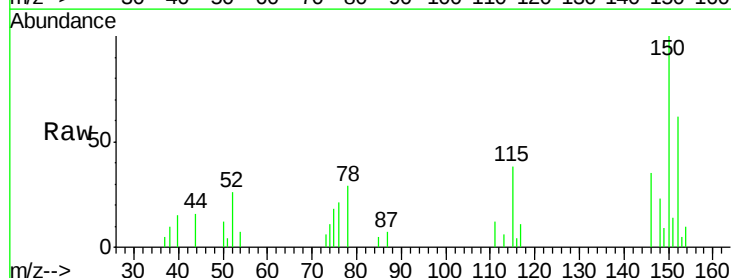
Tgt Ion:146 Resp: 1288

Ion Ratio Lower Upper

146 100

111 33.8 29.4 54.6

148 64.6 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

