

Data File : VV012572.D
Acq On : 04 Sep 2019 17:31
Operator : SY/MD
Sample : K4685-07
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFD76

Quant Time: Sep 05 01:31:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Sep 05 01:26:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	130846	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	131023	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	45225	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	52683	4.14	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.80%
7) Chloroethane-d5	1.58	69	59626	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.00%
11) 1,1-Dichloroethene-d2	2.13	63	97472	3.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.80%
20) 2-Butanone-d5	3.97	46	147150	60.77	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.54%
24) Chloroform-d	4.40	84	94949	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.08	65	54052	5.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.80%
32) Benzene-d6	5.10	84	170751	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
36) 1,2-Dichloropropane-d6	6.12	67	58657	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.20%
41) Toluene-d8	7.36	98	134348	4.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.60%
43) trans-1,3-Dichloropropene-	7.67	79	17750	4.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.80%
46) 2-Hexanone-d5	8.14	63	83992	52.93	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.86%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	41568	5.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	43222	5.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	10297	0.615 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3242	0.176 ug/L	95
12) 1,1-Dichloroethene	2.14	96	4744	0.280 ug/L #	1
13) Acetone	2.22	43	10286	2.993 ug/L	92
14) Carbon disulfide	2.31	76	2488	0.046 ug/L #	51
15) Methyl Acetate	2.22	43	10163	1.220 ug/L #	60
17) Methyl tert-butyl Ether	2.81	73	1966	0.068 ug/L #	80
19) 1,1-Dichloroethane	3.22	63	1402	0.054 ug/L #	90
22) cis-1,2-Dichloroethene	3.96	96	1780	0.127 ug/L	98
25) Chloroform	4.42	83	6624	0.243 ug/L	95
29) 1,1,1-Trichloroethane	4.65	97	1864	0.086 ug/L #	80
34) Trichloroethene	5.96	95	103282	6.929 ug/L	98
35) Methylcyclohexane	6.12	83	13531	0.597 ug/L #	16
44) trans-1,3-Dichloropropene	7.67	75	1470	0.099 ug/L	90
47) Tetrachloroethene	8.02	164	146965	13.645 ug/L	98
48) 2-Hexanone	8.18	43	9900	1.689 ug/L	92
49) Dibromochloromethane	8.02	129	135699	12.806 ug/L #	10

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090419\
Quantitation Report (Not Reviewed)

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Response via : Initial Calibration

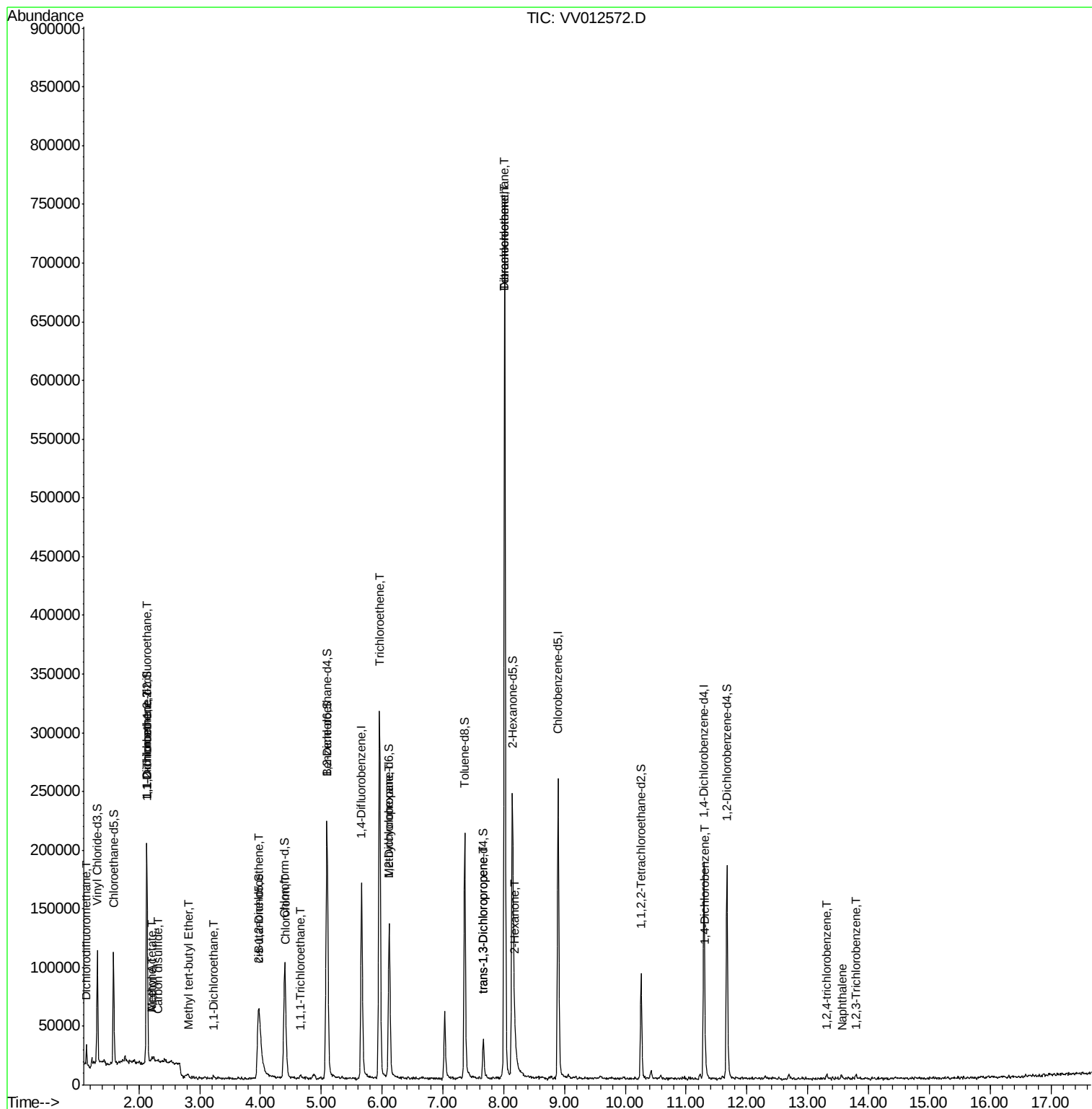
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.32	146	1203	0.060	ug/L	96
68) 1,2,4-trichlorobenzene	13.32	180	999	0.096	ug/L	93
69) Naphthalene	13.56	128	2395	0.155	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.79	180	1142	0.121	ug/L #	82

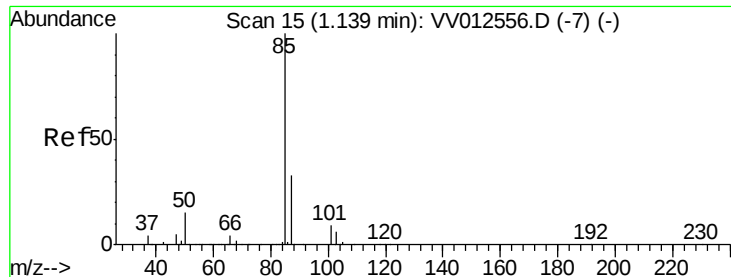
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.615 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Instrument :

MSVOA_V

ClientSampleId :

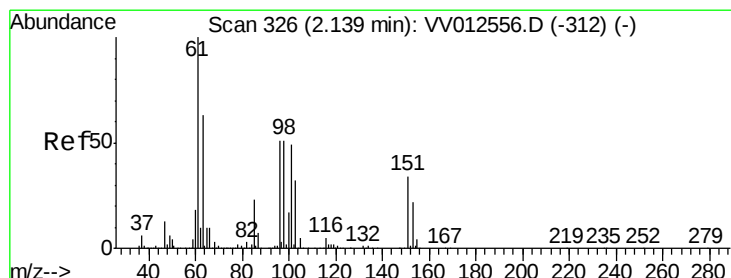
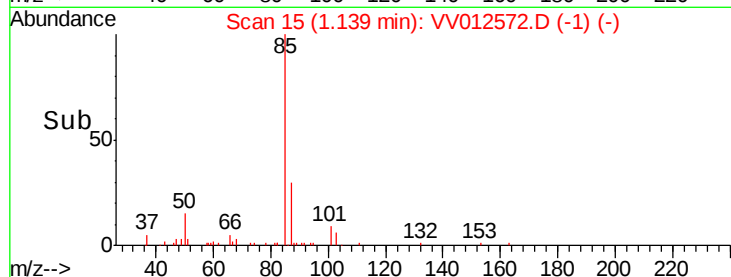
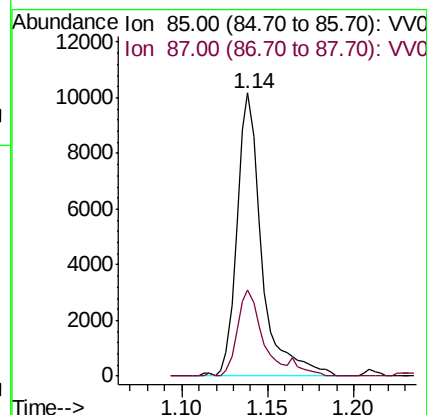
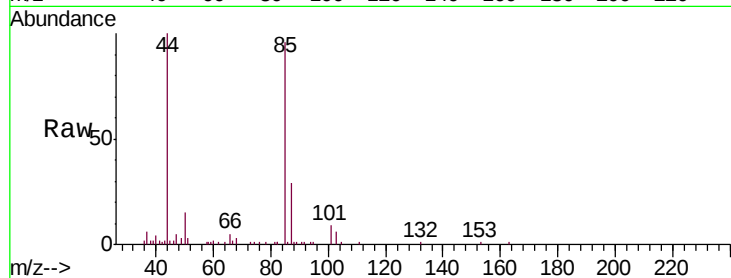
BFD76

Tgt Ion: 85 Resp: 10297

Ion Ratio Lower Upper

85 100

87 30.2 26.4 39.6



#10

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

Concen: 0.176 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

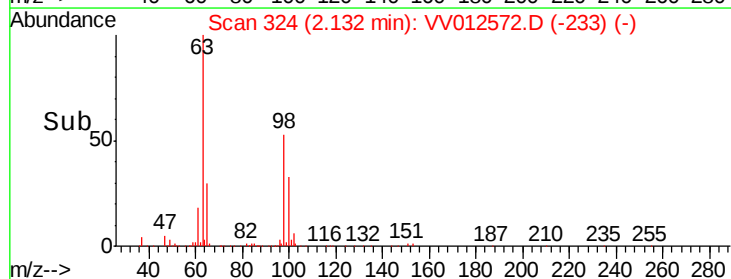
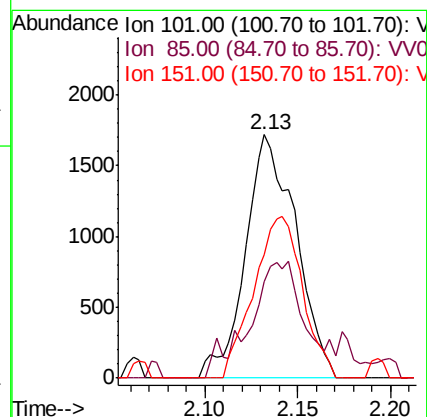
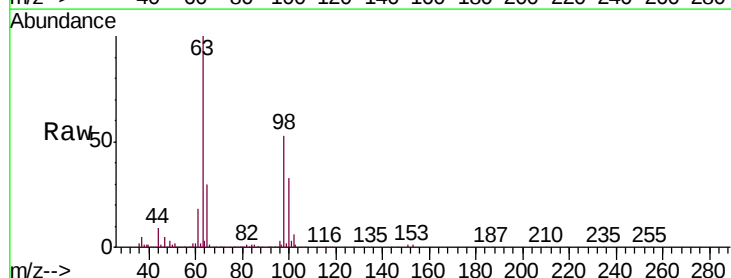
Tgt Ion: 101 Resp: 3242

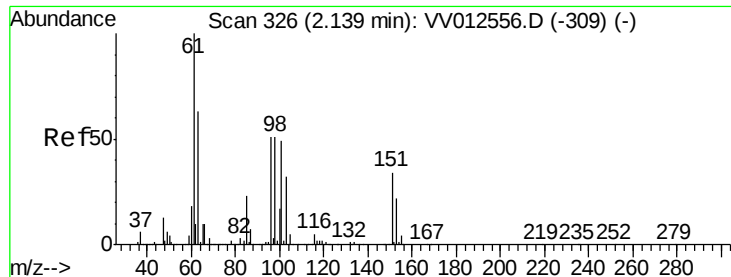
Ion Ratio Lower Upper

101 100

85 46.5 37.4 56.0

151 64.3 56.7 85.1





#12

1,1-Dichloroethene

Concen: 0.280 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Instrument :

MSVOA_V

ClientSampleId :

BFD76

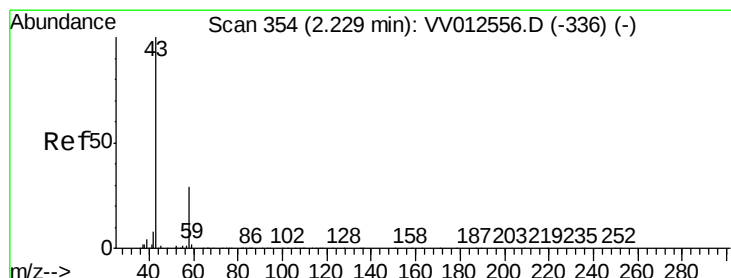
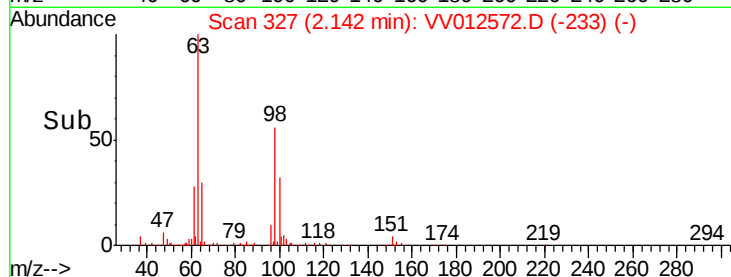
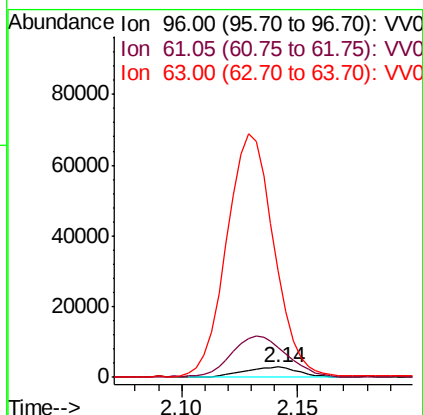
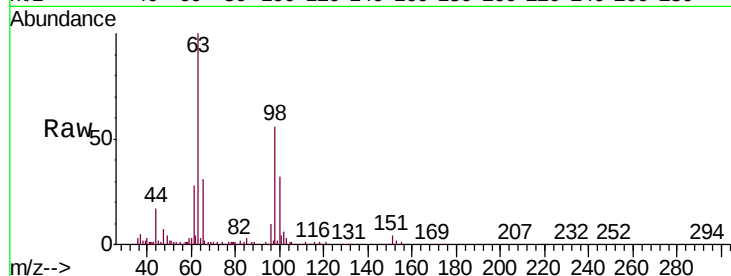
Tgt Ion: 96 Resp: 4744

Ion Ratio Lower Upper

96 100

61 295.9 133.7 248.3#

63 1049.4 83.2 154.6#



#13

Acetone

Concen: 2.993 ug/L

RT: 2.22 min Scan# 352

Delta R.T. -0.01 min

Lab File: VV012572.D

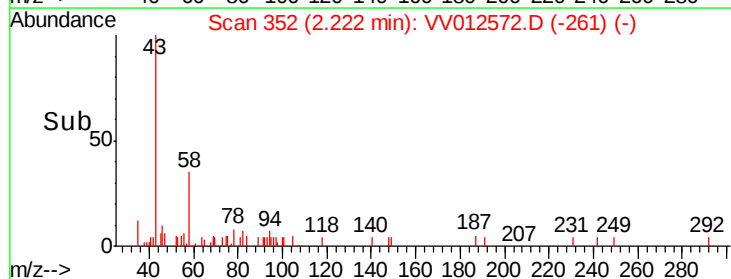
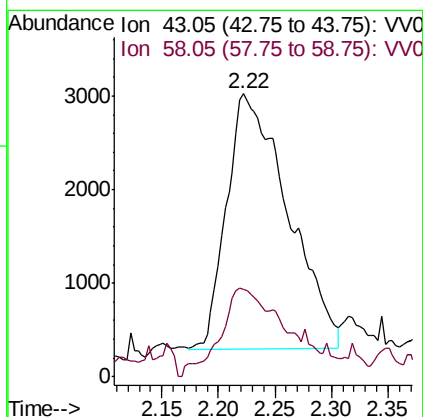
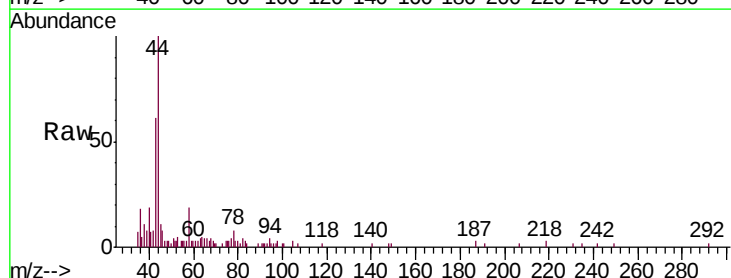
Acq: 04 Sep 2019 17:31

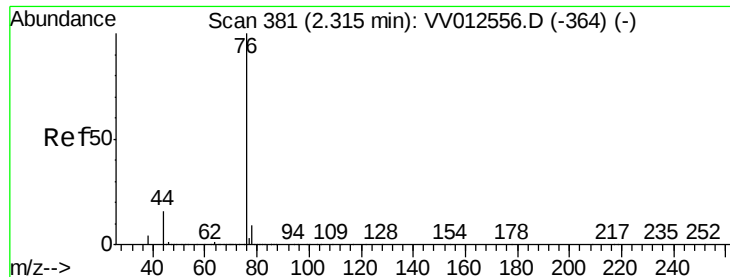
Tgt Ion: 43 Resp: 10286

Ion Ratio Lower Upper

43 100

58 33.4 0.0 58.2





#14

Carbon disulfide

Concen: 0.046 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Instrument :

MSVOA_V

ClientSampleId :

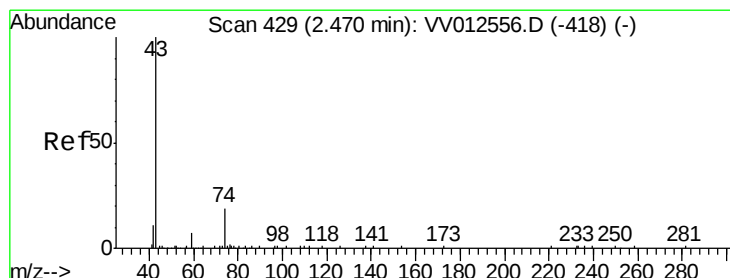
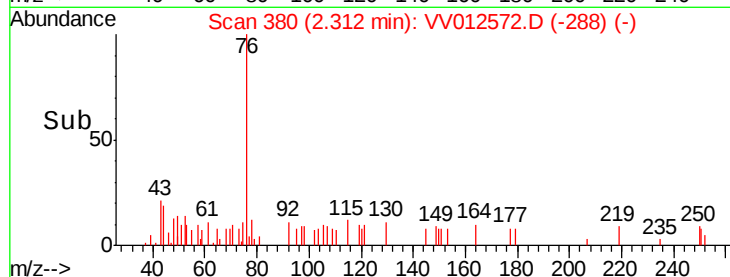
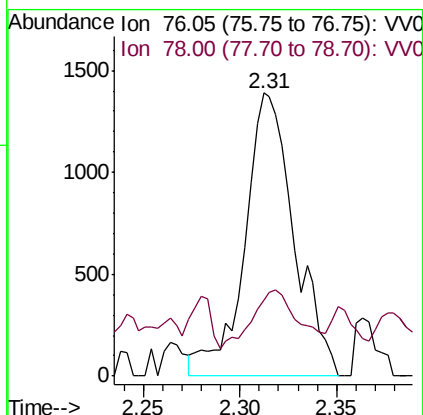
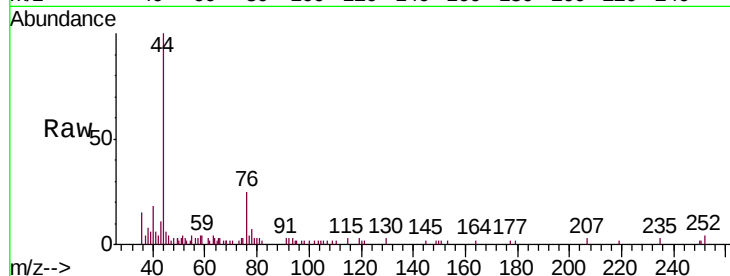
BFD76

Tgt Ion: 76 Resp: 2488

Ion Ratio Lower Upper

76 100

78 26.9 7.4 11.0#



#15

Methyl Acetate

Concen: 1.220 ug/L

RT: 2.22 min Scan# 352

Delta R.T. -0.25 min

Lab File: VV012572.D

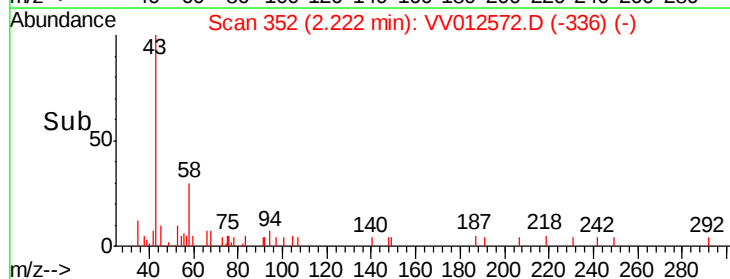
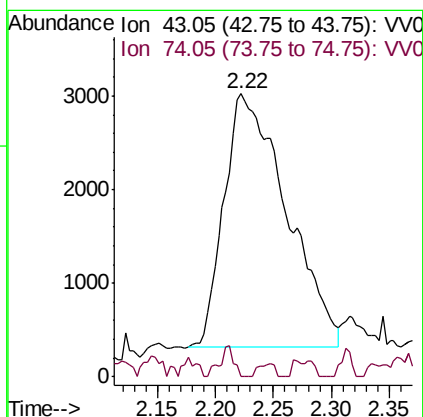
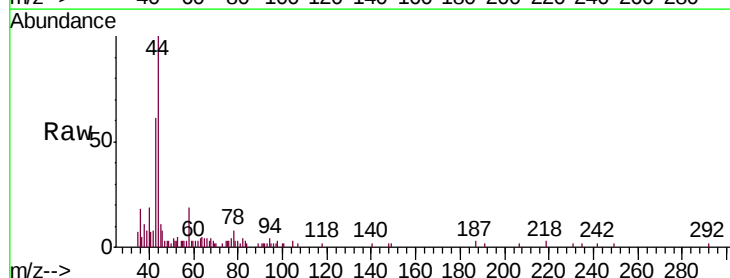
Acq: 04 Sep 2019 17:31

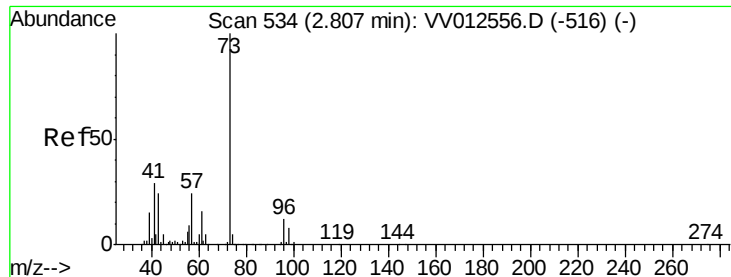
Tgt Ion: 43 Resp: 10163

Ion Ratio Lower Upper

43 100

74 2.7 17.3 25.9#





#17

Methyl tert-butyl Ether

Concen: 0.068 ug/L

RT: 2.81 min Scan# 535

Delta R.T. 0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Instrument :

MSVOA_V

ClientSampleId :

BFD76

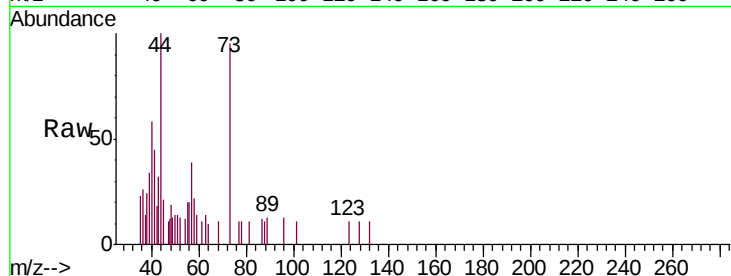
Tgt Ion: 73 Resp: 1966

Ion Ratio Lower Upper

73 100

43 12.4 18.9 28.3#

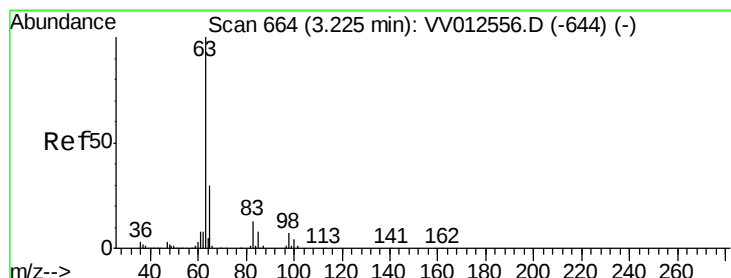
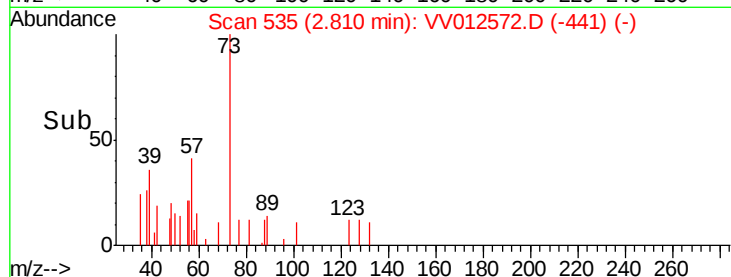
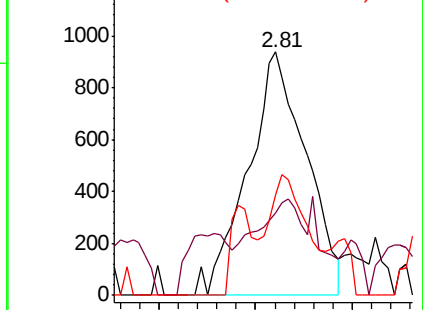
57 31.1 18.3 27.5#



Abundance Ion 73.10 (72.80 to 73.80): VV012556.D (-516) (-)

Ion 43.05 (42.75 to 43.75): VV012556.D (-516) (-)

Ion 57.10 (56.80 to 57.80): VV012556.D (-516) (-)



#19

1,1-Dichloroethane

Concen: 0.054 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

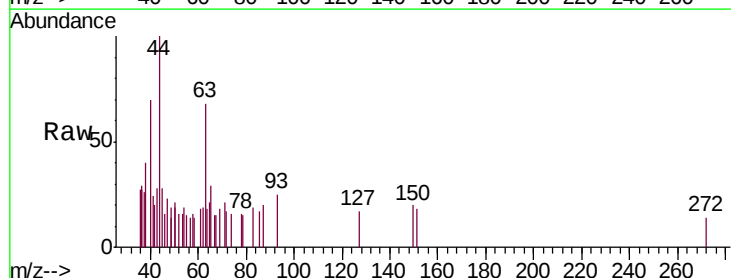
Tgt Ion: 63 Resp: 1402

Ion Ratio Lower Upper

63 100

65 33.3 21.5 39.9

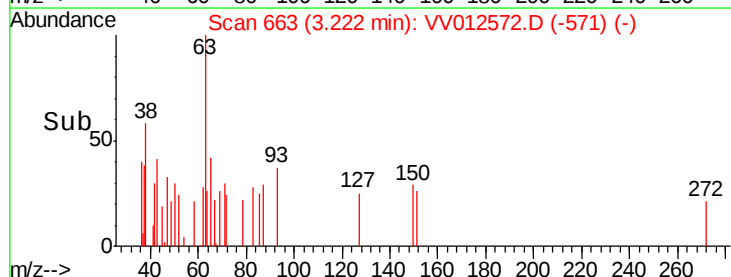
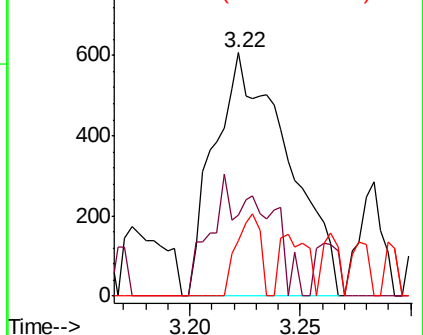
83 22.6 9.1 16.9#

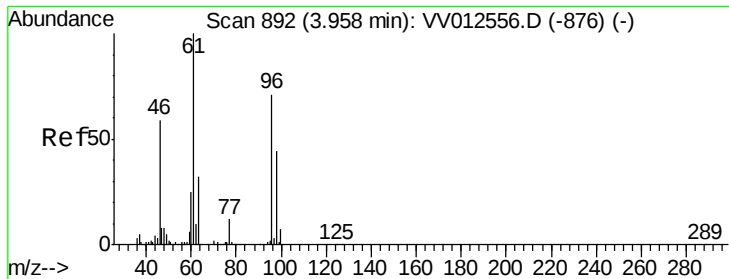


Abundance Ion 63.10 (62.80 to 63.80): VV012556.D (-644) (-)

Ion 65.10 (64.80 to 65.80): VV012556.D (-644) (-)

Ion 83.05 (82.75 to 83.75): VV012556.D (-644) (-)



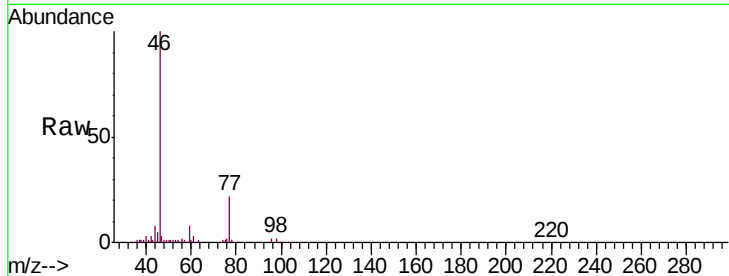


#22

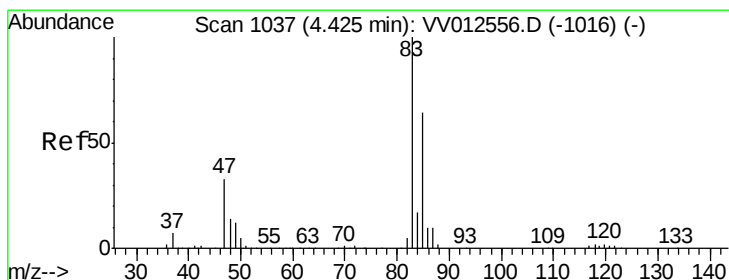
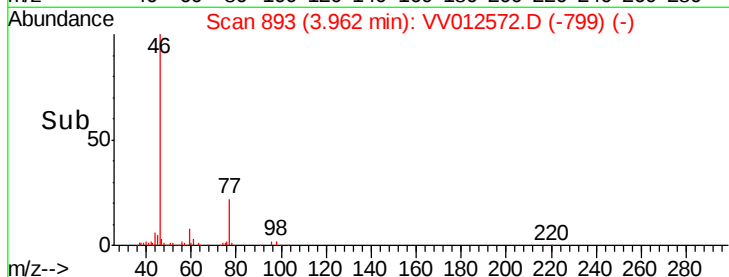
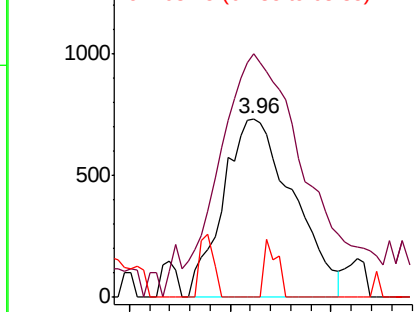
cis-1,2-Dichloroethene
 Concen: 0.127 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV012572.D
 Acq: 04 Sep 2019 17:31

Instrument :
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 BFD76

Tgt Ion: 96 Resp: 1780
 Ion Ratio Lower Upper
 96 100
 61 136.4 97.5 181.1
 68 0.0 0.0 0.0



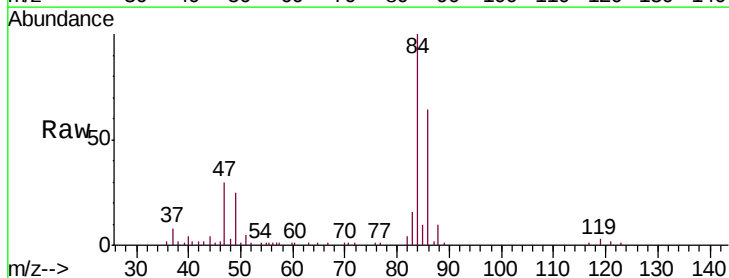
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



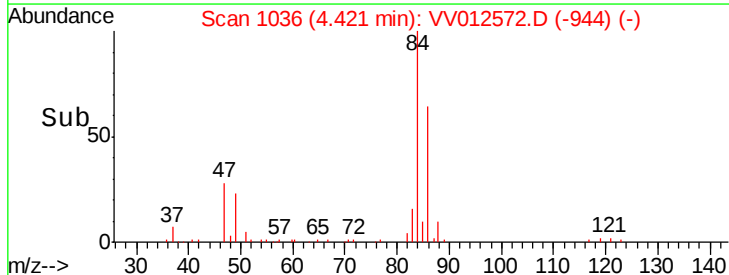
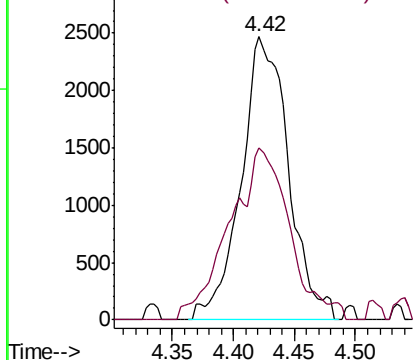
#25

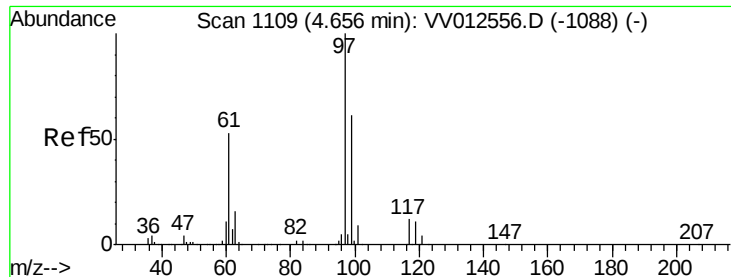
Chloroform
 Concen: 0.243 ug/L
 RT: 4.42 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: VV012572.D
 Acq: 04 Sep 2019 17:31

Tgt Ion: 83 Resp: 6624
 Ion Ratio Lower Upper
 83 100
 85 60.9 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0





#29

1,1,1-Trichloroethane

Concen: 0.086 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Instrument :

MSVOA_V

ClientSampleId :

BFD76

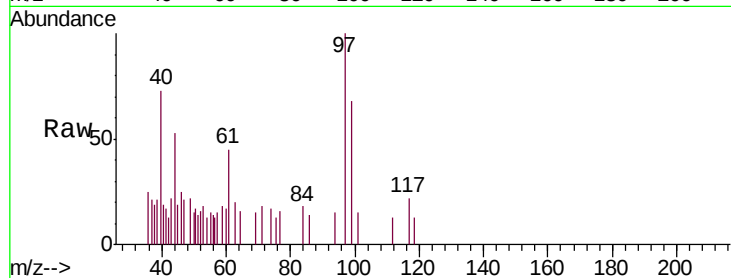
Tgt Ion: 97 Resp: 1864

Ion Ratio Lower Upper

97 100

99 73.3 52.6 79.0

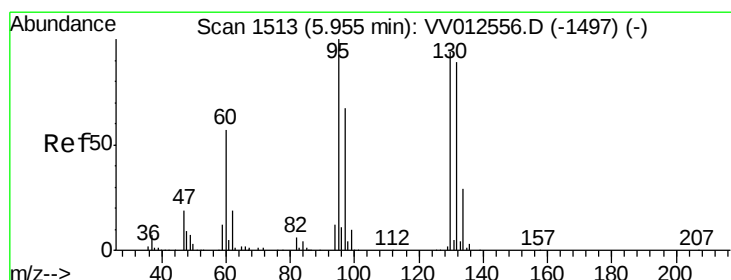
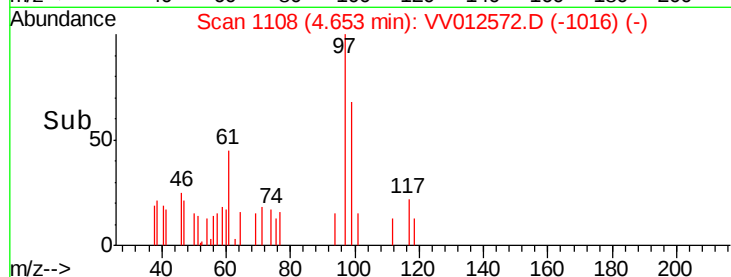
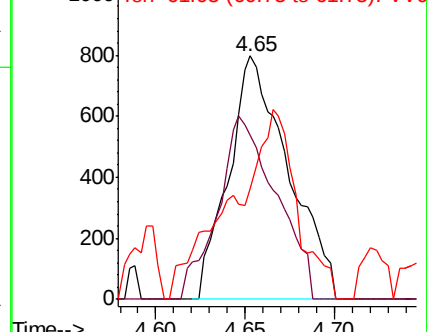
61 31.0 43.4 65.2#



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#34

Trichloroethene

Concen: 6.929 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Tgt Ion: 95 Resp: 103282

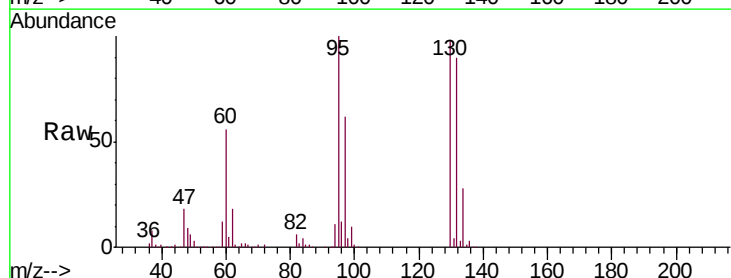
Ion Ratio Lower Upper

95 100

97 62.1 44.7 83.1

132 90.3 63.8 118.4

130 98.4 66.6 123.6

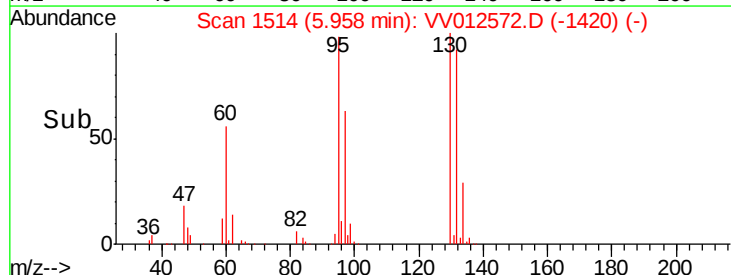
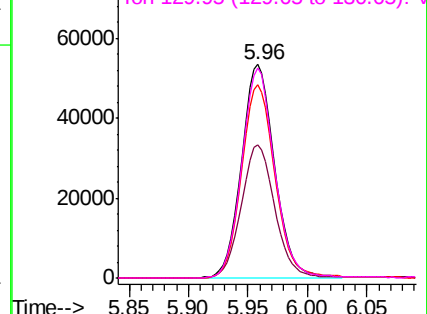


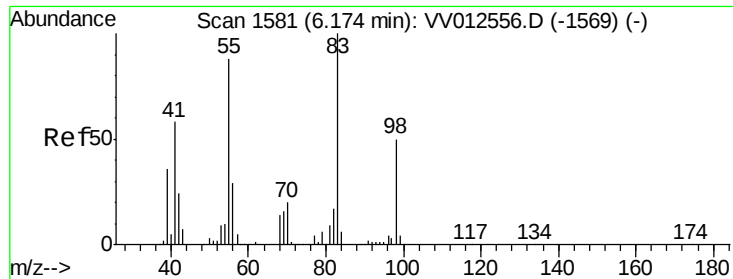
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

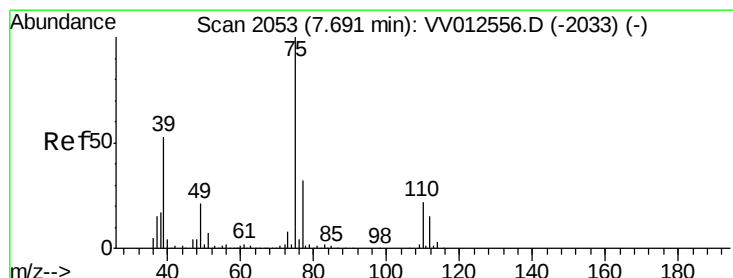
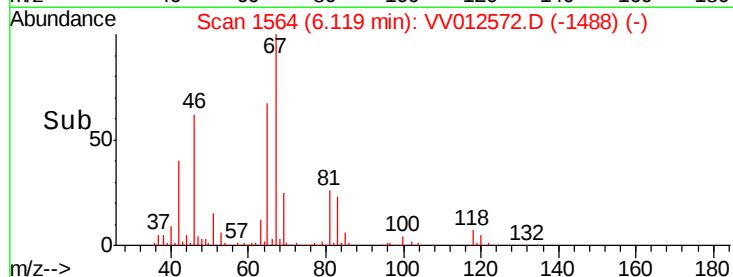
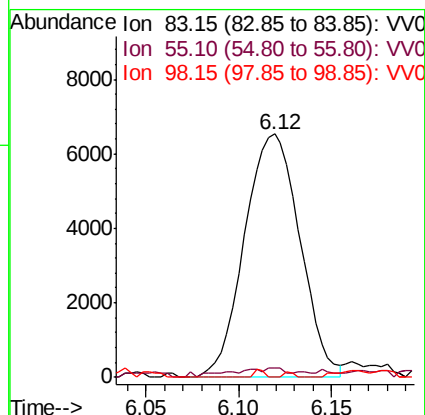
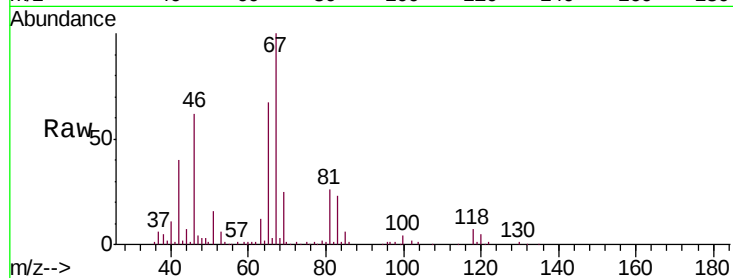




#35
Methylcyclohexane
Concen: 0.597 ug/L
RT: 6.12 min Scan# 1564
Delta R.T. -0.05 min
Lab File: VV012572.D
Acq: 04 Sep 2019 17:31

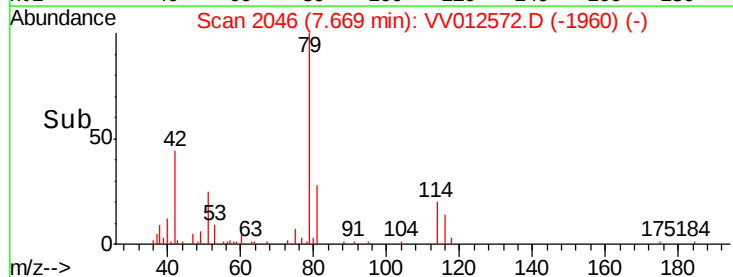
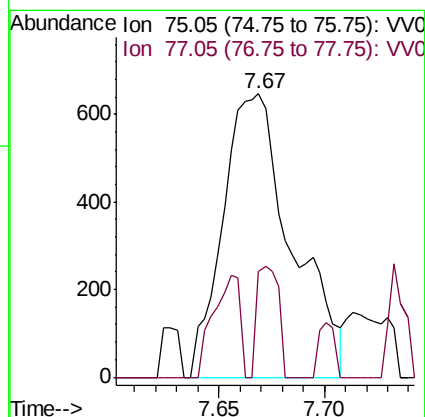
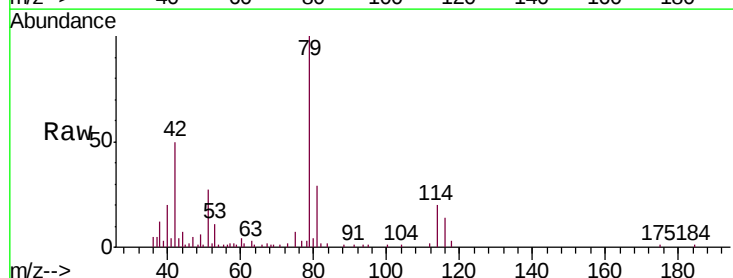
Instrument :
MSVOA_V
ClientSampleId :
BFD76

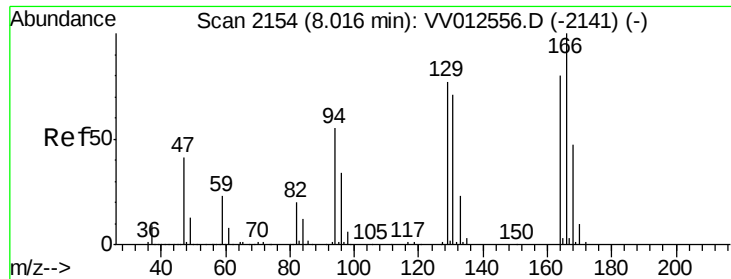
Tgt Ion: 83 Resp: 13531
Ion Ratio Lower Upper
83 100
55 1.4 67.3 100.9#
98 0.0 37.4 56.2#



#44
trans-1,3-Dichloropropene
Concen: 0.099 ug/L
RT: 7.67 min Scan# 2046
Delta R.T. -0.02 min
Lab File: VV012572.D
Acq: 04 Sep 2019 17:31

Tgt Ion: 75 Resp: 1470
Ion Ratio Lower Upper
75 100
77 37.2 22.2 41.2





#47

Tetrachloroethene

Concen: 13.645 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Instrument :

MSVOA_V

ClientSampleId :

BFD76

Tgt Ion:164 Resp: 146965

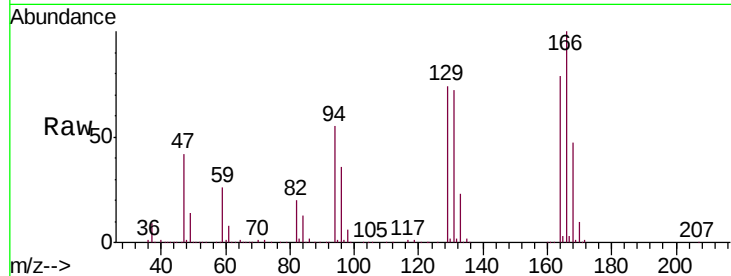
Ion Ratio Lower Upper

164 100

129 94.0 64.5 119.9

131 90.8 62.3 115.7

166 126.4 86.5 160.6

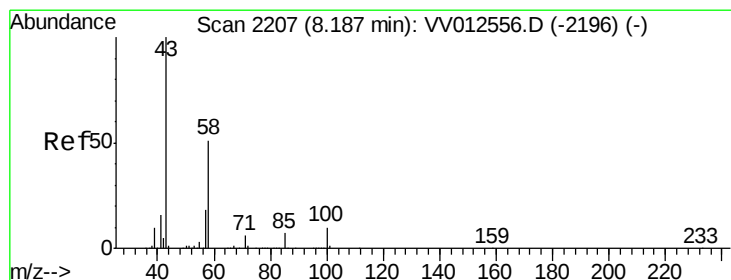
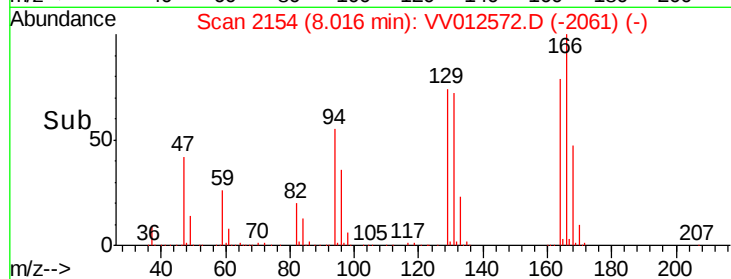
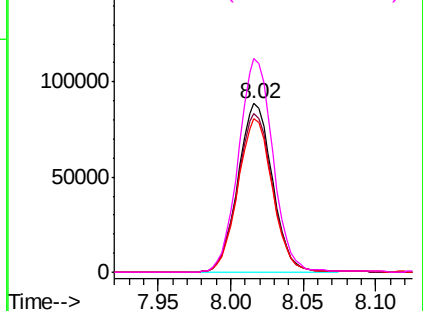


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 1.689 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Tgt Ion: 43 Resp: 9900

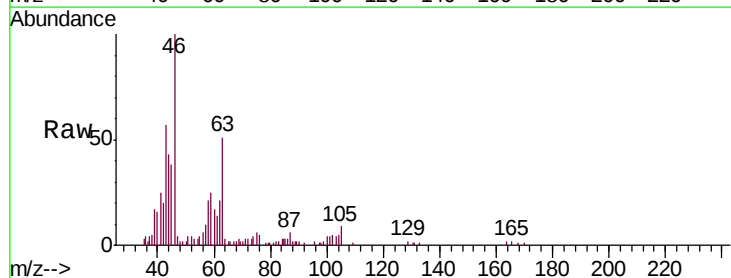
Ion Ratio Lower Upper

43 100

58 42.9 40.0 60.0

57 15.5 13.4 20.2

100 11.9 8.2 12.2

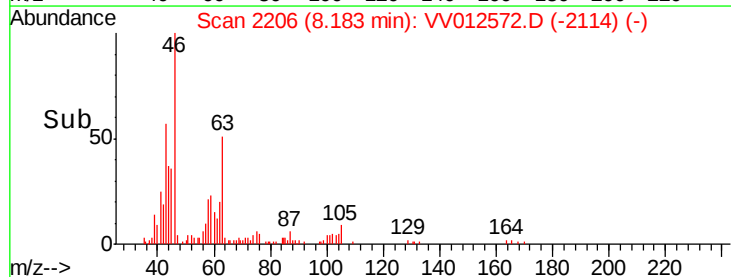
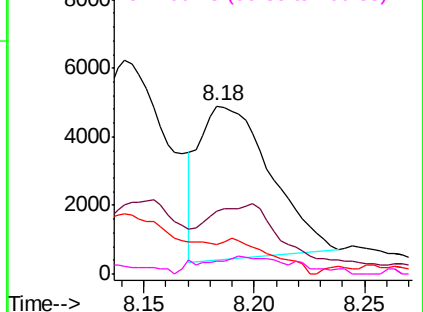


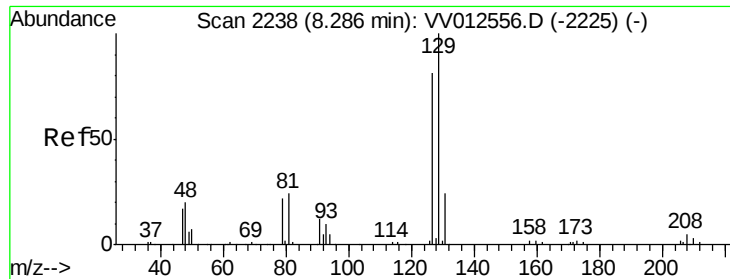
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 12.806 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

Instrument :

MSVOA_V

ClientSampleId :

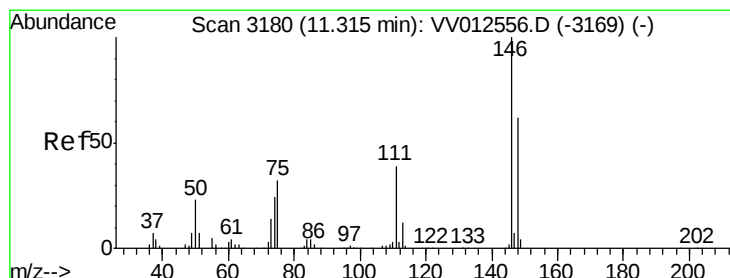
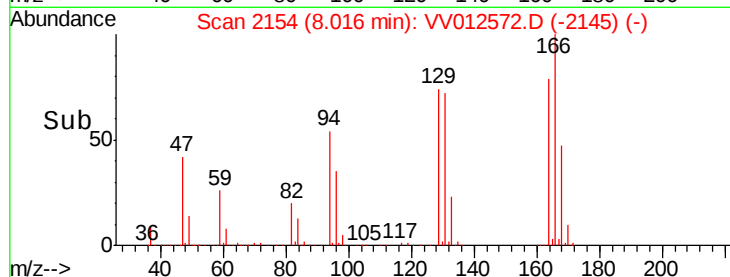
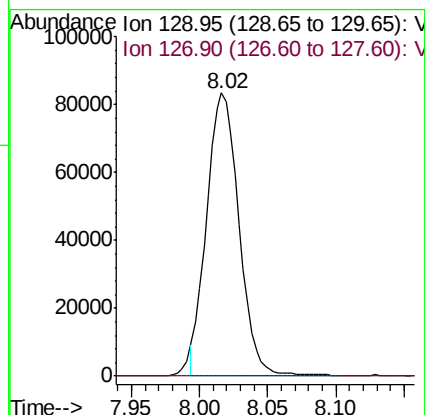
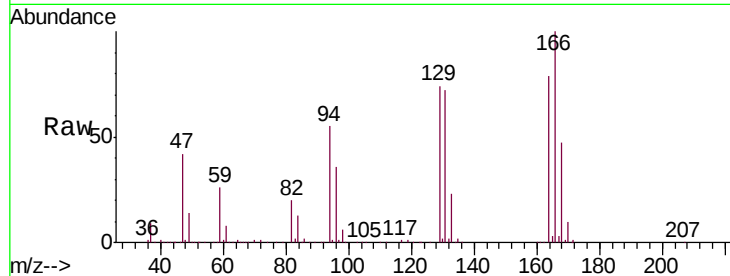
BFD76

Tgt Ion:129 Resp: 135699

Ion Ratio Lower Upper

129 100

127 0.0 54.9 102.1#



#63

1,4-Dichlorobenzene

Concen: 0.060 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV012572.D

Acq: 04 Sep 2019 17:31

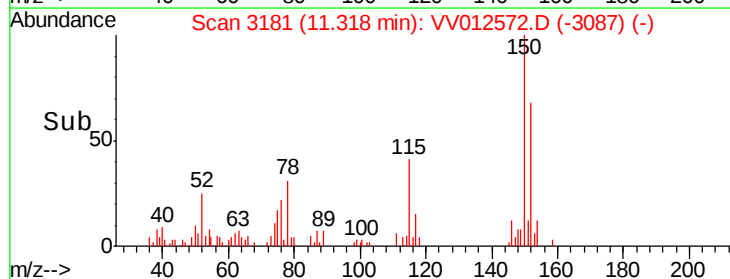
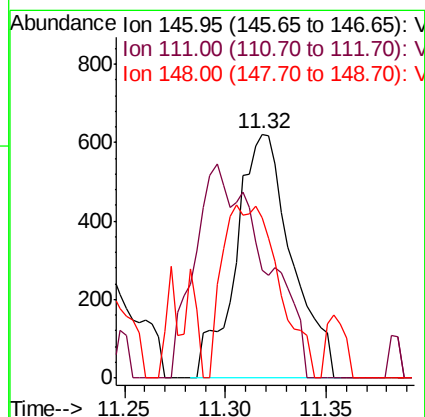
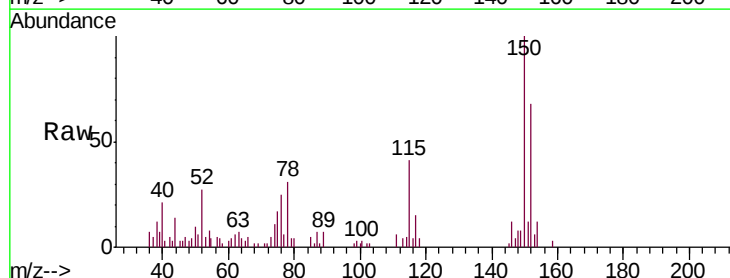
Tgt Ion:146 Resp: 1203

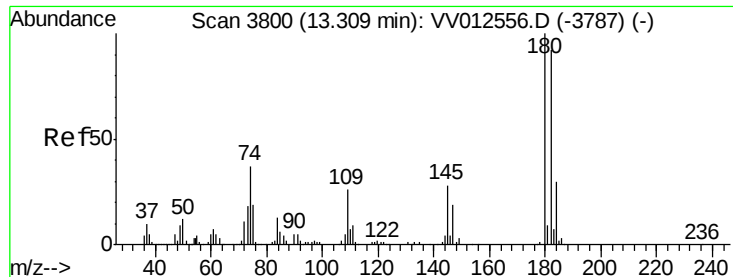
Ion Ratio Lower Upper

146 100

111 44.4 27.9 51.7

148 65.9 44.9 83.3

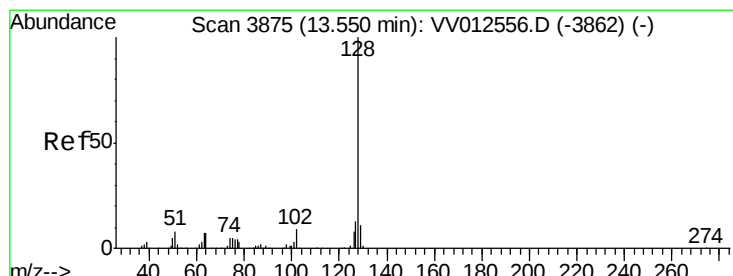
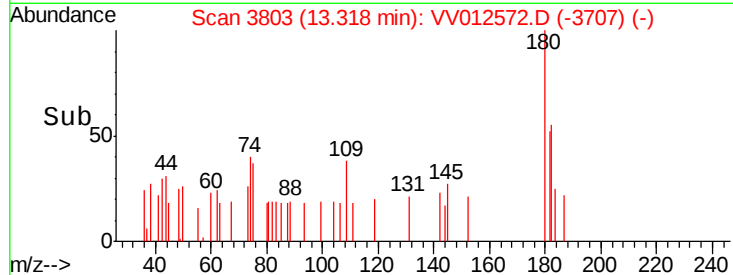
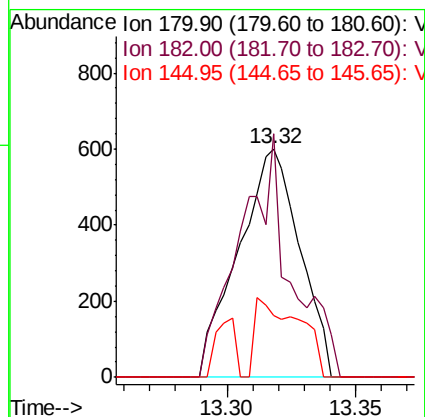
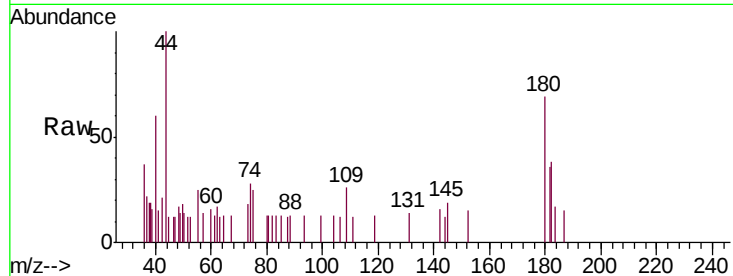




#68
 1,2,4-trichlorobenzene
 Concen: 0.096 ug/L
 RT: 13.32 min Scan# 3803
 Delta R.T. 0.01 min
 Lab File: VV012572.D
 Acq: 04 Sep 2019 17:31

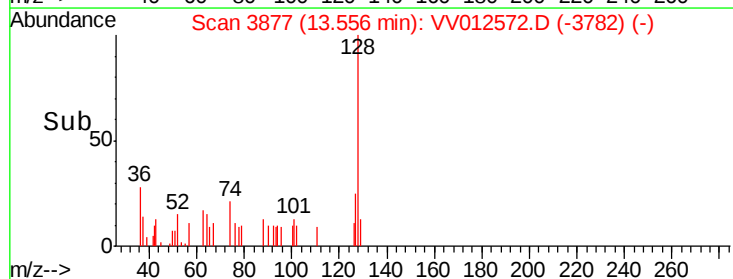
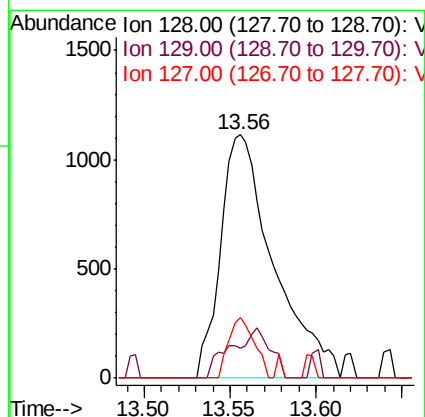
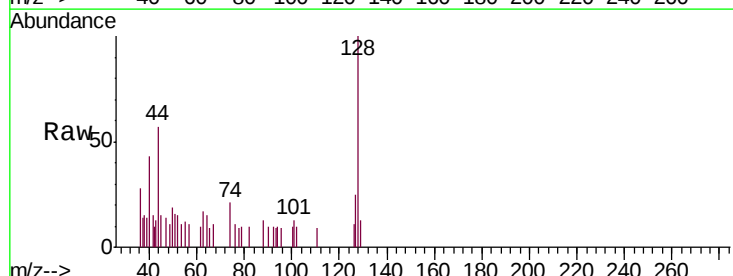
Instrument :
 MSVOA_V
 ClientSampleId :
 BFD76

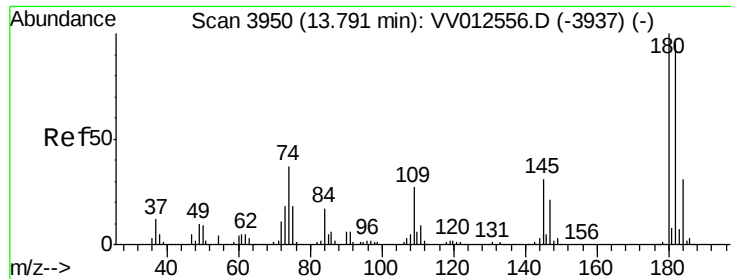
Tgt Ion:180 Resp: 999
 Ion Ratio Lower Upper
 180 100
 182 89.0 75.8 113.6
 145 25.1 23.8 35.8



#69
 Naphthalene
 Concen: 0.155 ug/L
 RT: 13.56 min Scan# 3877
 Delta R.T. 0.01 min
 Lab File: VV012572.D
 Acq: 04 Sep 2019 17:31

Tgt Ion:128 Resp: 2395
 Ion Ratio Lower Upper
 128 100
 129 15.4 8.8 13.2#
 127 12.0 11.0 16.4

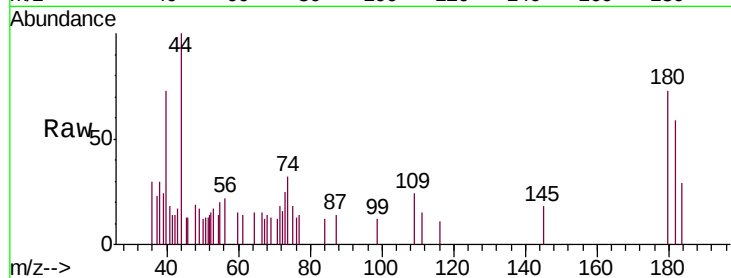




#70
 1,2,3-Trichlorobenzene
 Concen: 0.121 ug/L
 RT: 13.79 min Scan# 3951
 Delta R.T. 0.00 min
 Lab File: VV012572.D
 Acq: 04 Sep 2019 17:31

Instrument :
 MSVOA_V
 ClientSampleId :
 BFD76

Tgt Ion:180 Resp: 1142
 Ion Ratio Lower Upper
 180 100
 182 83.2 79.4 119.0
 145 18.3 26.2 39.4#



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

