

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102220\
 Data File : VV019076.D
 Acq On : 22 Oct 2020 18:36
 Operator : SY/MD
 Sample : L4483-04
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0FH2

Quant Time: Oct 23 06:33:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 22 13:54:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	315464	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	305357	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	142582	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	133379	46.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.08%
7) Chloroethane-d5	1.58	69	106971	46.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.74%
11) 1,1-Dichloroethene-d2	2.12	63	190360	35.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.94%
21) 2-Butanone-d5	3.92	46	173807	90.18	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	90.18%
24) Chloroform-d	4.38	84	219586	43.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.62%
26) 1,2-Dichloroethane-d4	5.06	65	154101	45.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.46%
32) Benzene-d6	5.08	84	444008	47.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.08%
36) 1,2-Dichloropropane-d6	6.09	67	146098	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.56%
41) Toluene-d8	7.34	98	390220	46.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.44%
43) trans-1,3-Dichloropropene-	7.64	79	69726	44.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.94%
47) 2-Hexanone-d5	8.11	63	118857	90.35	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.35%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	178273	44.27	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.54%
64) 1,2-Dichlorobenzene-d4	11.65	152	147718	49.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.78%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1826	0.867	ug/L #	25
13) Acetone	2.21	43	6792	5.199	ug/L	85
25) Chloroform	4.40	83	6926	1.564	ug/L	82
27) 1,2-Dichloroethane	5.07	62	3023	0.823	ug/L	97
37) 1,2-Dichloropropane	6.09	63	16628	6.461	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	4420	1.162	ug/L #	80
44) trans-1,3-Dichloropropene	7.64	75	3555	0.942	ug/L	88
48) 2-Hexanone	8.11	43	15755	5.881	ug/L #	69
51) Chlorobenzene	8.90	112	12262	1.993	ug/L	93
59) 1,2,3-Trichloropropane	11.27	75	19970	6.636	ug/L	97
62) 1,3-Dichlorobenzene	11.21	146	3142	0.734	ug/L	86
63) 1,4-Dichlorobenzene	11.29	146	7317	1.637	ug/L	96
65) 1,2-Dichlorobenzene	11.67	146	77919	18.061	ug/L	99
67) 1,3,5-Trichlorobenzene	13.29	180	11434	3.913	ug/L	96
68) 1,2,4-trichlorobenzene	13.29	180	11434	4.150	ug/L	96
70) 1,2,3-Trichlorobenzene	13.77	180	10551	3.780	ug/L	95

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Quant Title : VOC Analysis
QLast Update : Thu Oct 22 13:54:49 2020
Response via : Initial Calibration

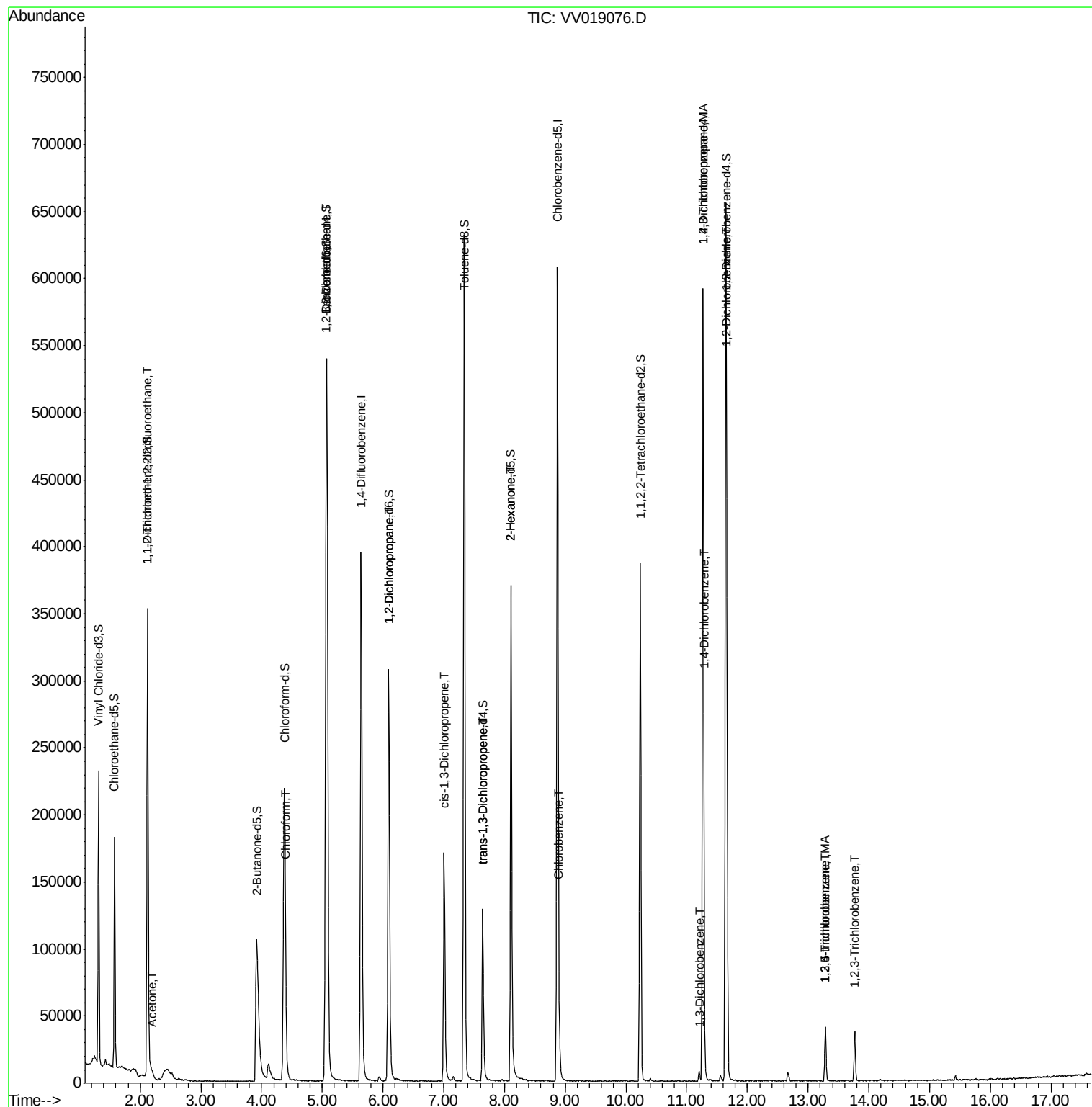
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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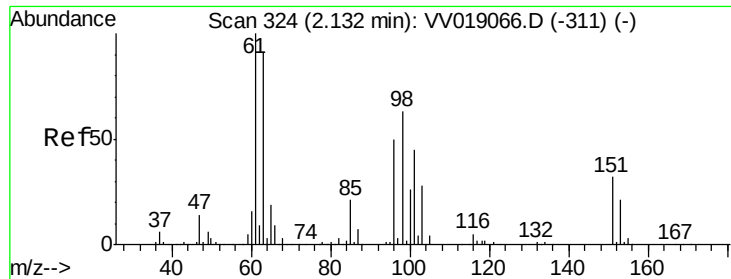
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.867 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

Instrument :

MSVOA_V

ClientSampleId :

C0FH2

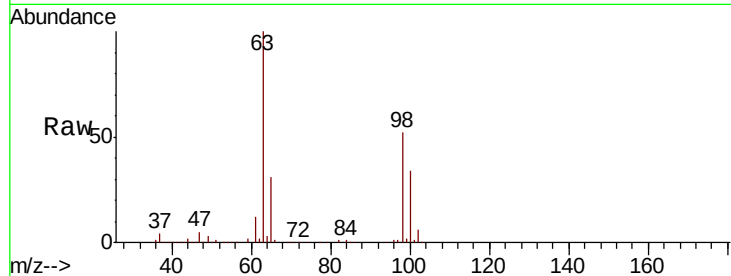
Tot Ion:101 Resp: 1826

Ion Ratio Lower Upper

101 100

85 5.9 36.9 55.3#

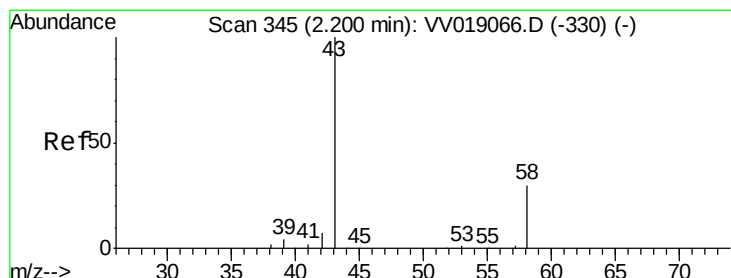
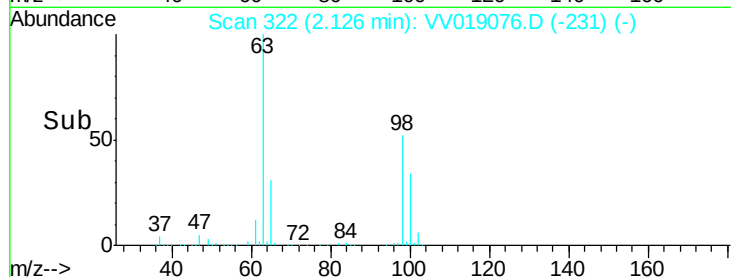
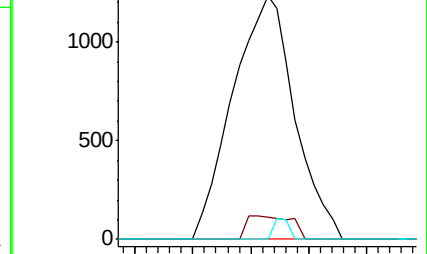
151 2.2 58.2 87.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 5.199 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.01 min

Lab File: VV019076.D

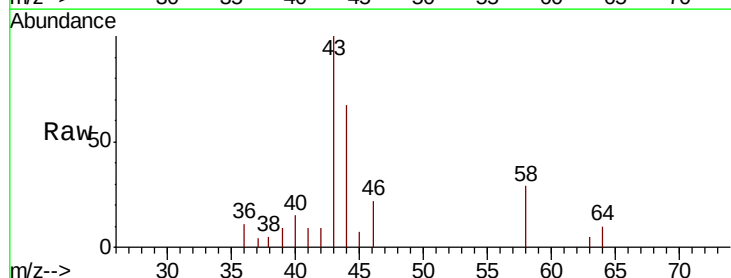
Acq: 22 Oct 2020 18:36

Tgt Ion: 43 Resp: 6792

Ion Ratio Lower Upper

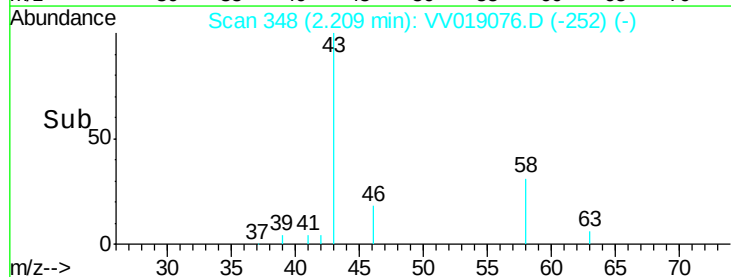
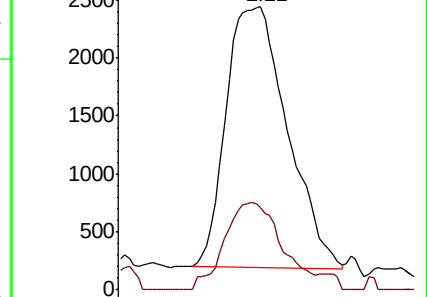
43 100

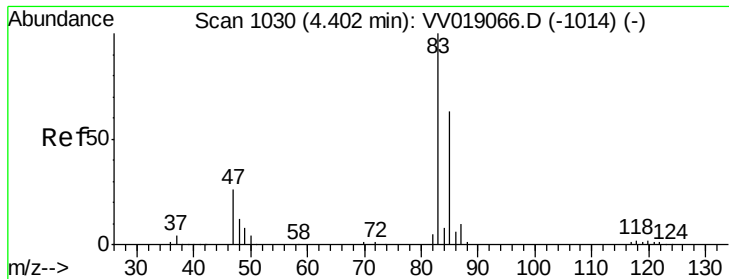
58 22.1 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#25

Chloroform

Concen: 1.564 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

Instrument :

MSVOA_V

ClientSampleId :

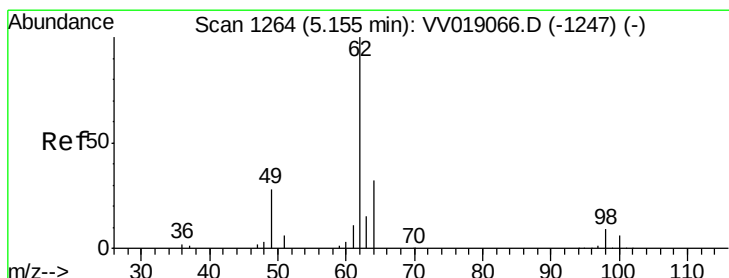
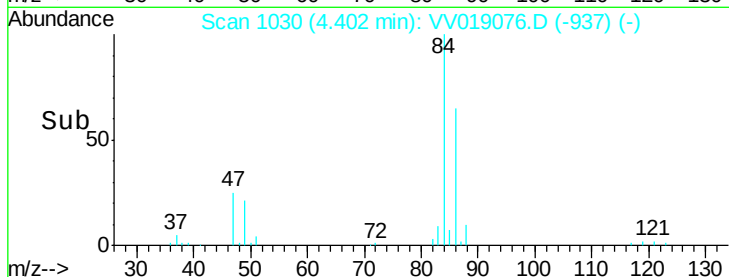
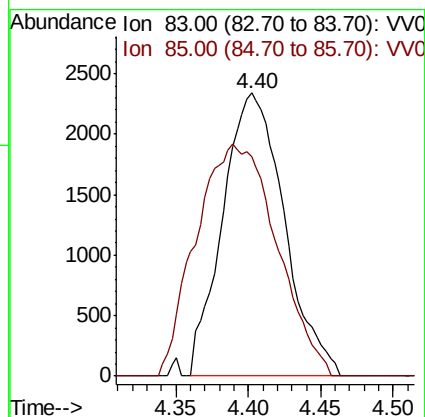
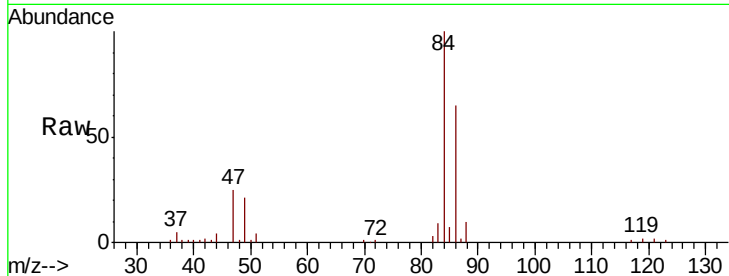
C0FH2

Tot Ion: 83 Resp: 6926

Ion Ratio Lower Upper

83 100

85 77.4 44.5 82.7



#27

1,2-Dichloroethane

Concen: 0.823 ug/L

RT: 5.07 min Scan# 1238

Delta R.T. -0.08 min

Lab File: VV019076.D

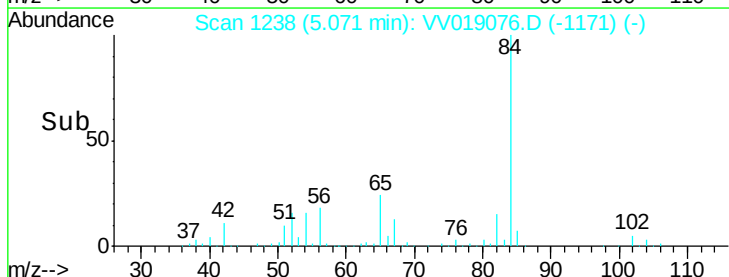
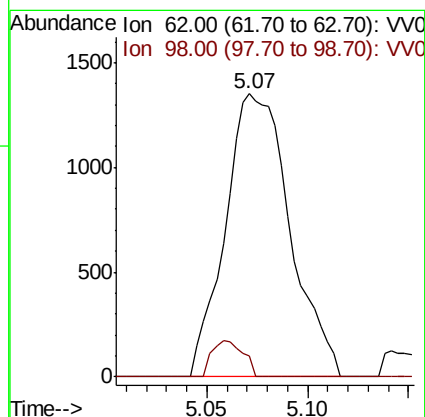
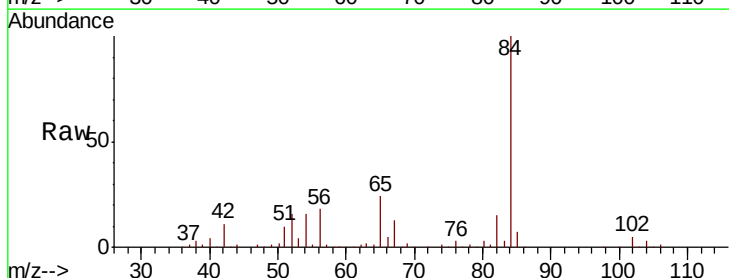
Acq: 22 Oct 2020 18:36

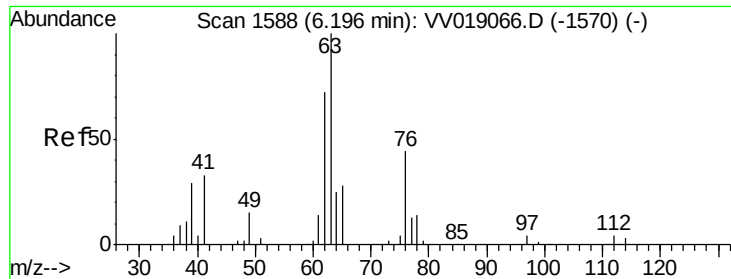
Tgt Ion: 62 Resp: 3023

Ion Ratio Lower Upper

62 100

98 7.5 6.9 10.3





#37

1,2-Dichloropropane

Concen: 6.461 ug/L

RT: 6.09 min Scan# 1555

Delta R.T. -0.11 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

Instrument :

MSVOA_V

ClientSampled :

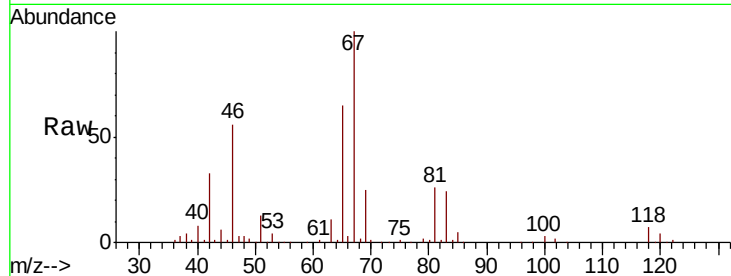
C0FH2

Tot Ion: 63 Resp: 16628

Ion Ratio Lower Upper

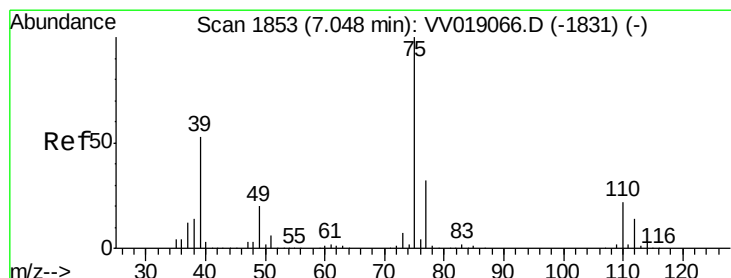
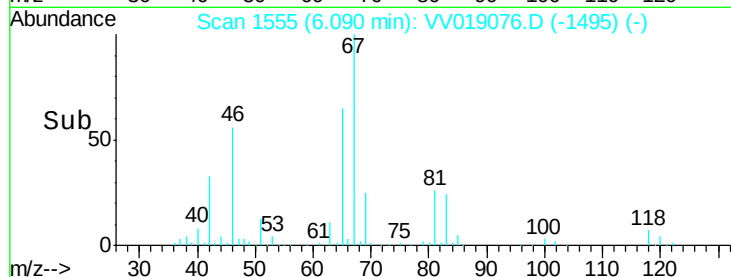
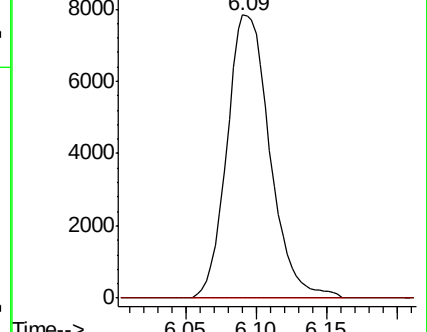
63 100

112 0.0 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VV019066.D (-1570) (-)

Ion 112.00 (111.70 to 112.70): VV019066.D (-1570) (-)



#39

cis-1,3-Dichloropropene

Concen: 1.162 ug/L

RT: 7.01 min Scan# 1840

Delta R.T. -0.04 min

Lab File: VV019076.D

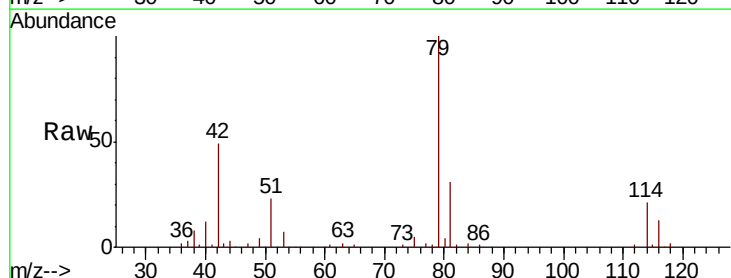
Acq: 22 Oct 2020 18:36

Tgt Ion: 75 Resp: 4420

Ion Ratio Lower Upper

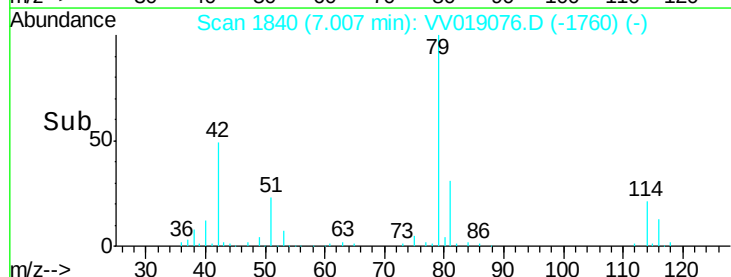
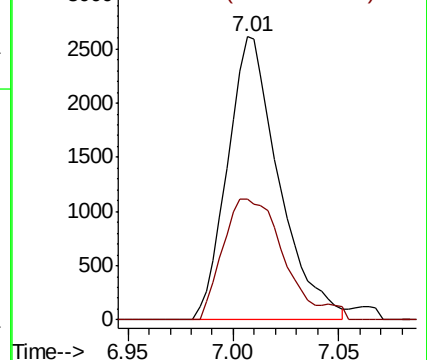
75 100

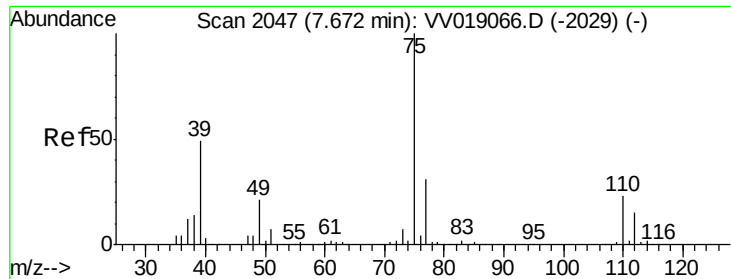
77 42.8 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VV019066.D (-1831) (-)

Ion 77.00 (76.70 to 77.70): VV019066.D (-1831) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.942 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

Instrument :

MSVOA_V

ClientSampleId :

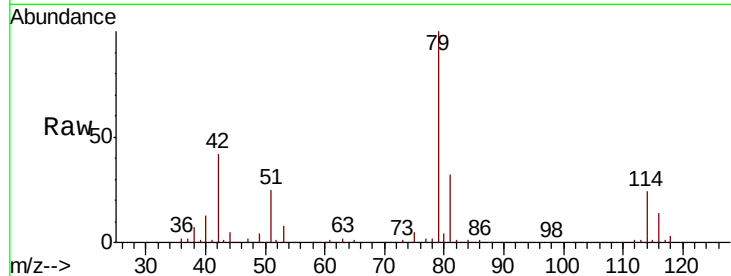
C0FH2

Tot Ion: 75 Resp: 3555

Ion Ratio Lower Upper

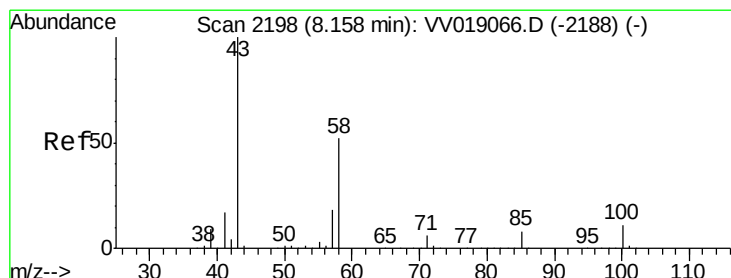
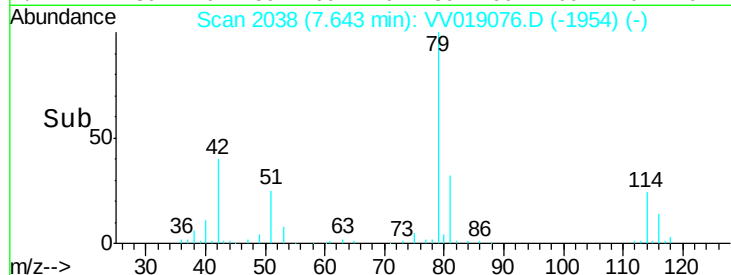
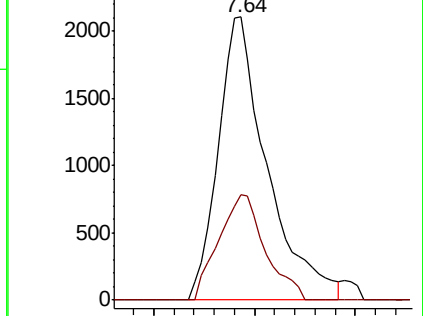
75 100

77 37.2 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#48

2-Hexanone

Concen: 5.881 ug/L

RT: 8.11 min Scan# 2182

Delta R.T. -0.05 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

Tgt Ion: 43 Resp: 15755

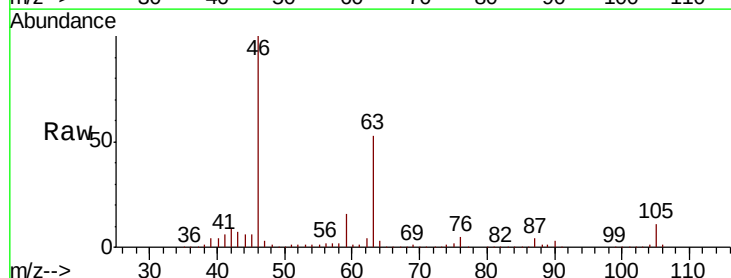
Ion Ratio Lower Upper

43 100

58 26.5 41.1 61.7#

57 28.2 14.7 22.1#

100 1.3 8.6 12.8#

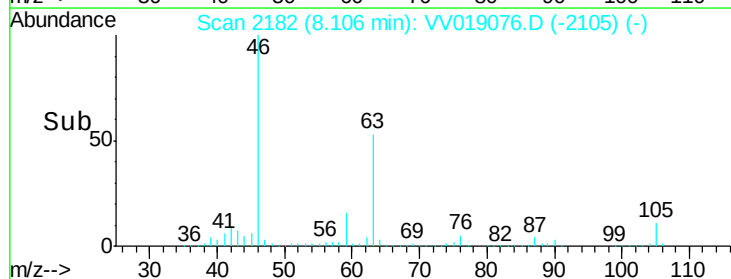
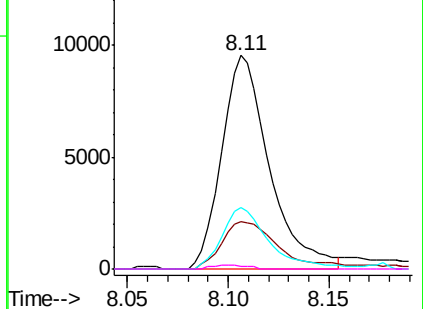


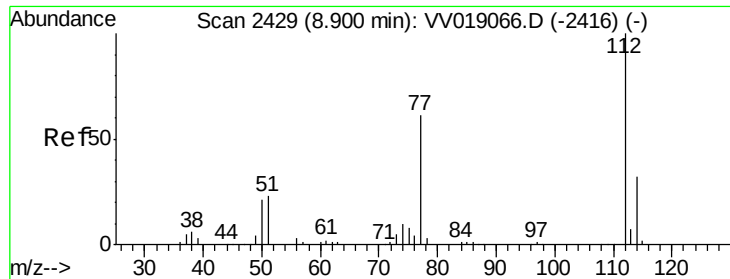
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#51

Chlorobenzene

Concen: 1.993 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

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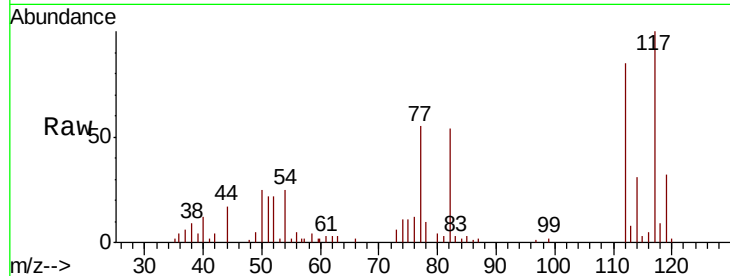
Tot Ion:112 Resp: 12262

Ion Ratio Lower Upper

112 100

114 37.1 22.2 41.2

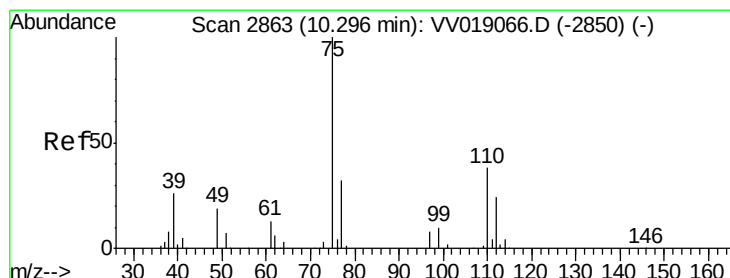
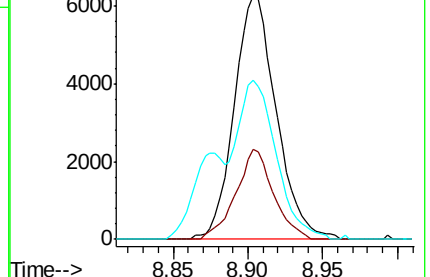
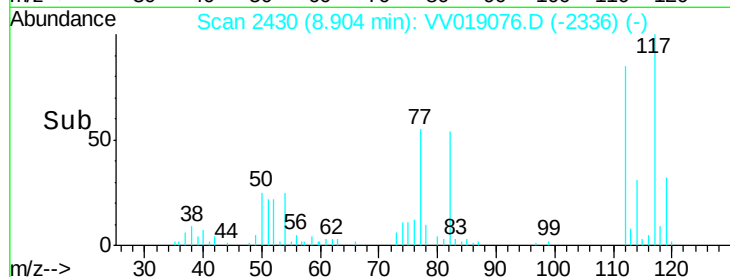
77 65.3 49.1 73.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#59

1,2,3-Trichloropropane

Concen: 6.636 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.97 min

Lab File: VV019076.D

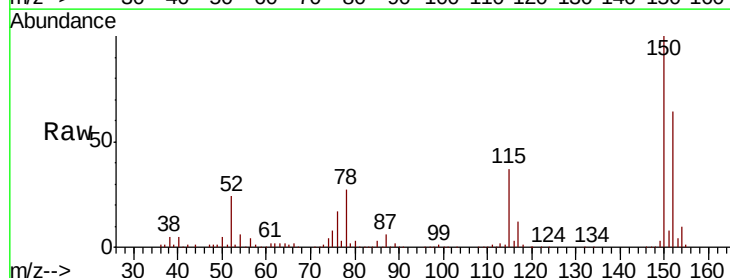
Acq: 22 Oct 2020 18:36

Tgt Ion: 75 Resp: 19970

Ion Ratio Lower Upper

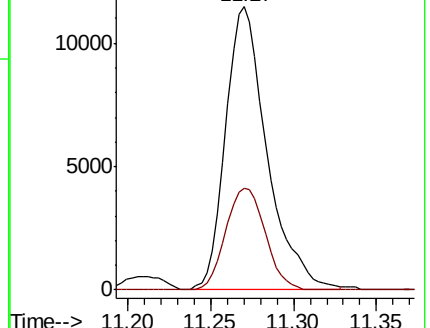
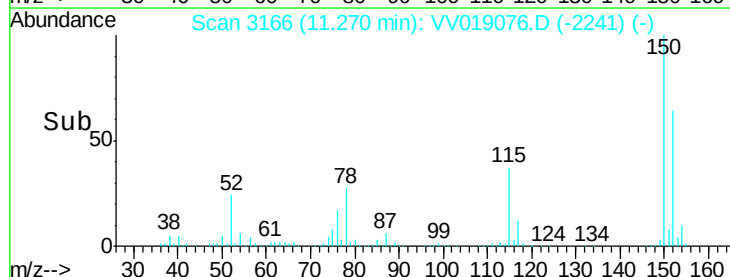
75 100

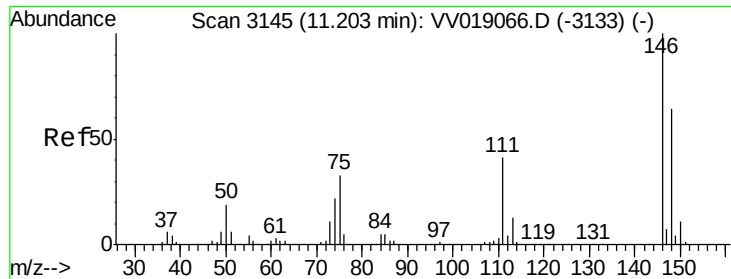
77 34.0 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#62

1,3-Dichlorobenzene

Concen: 0.734 ug/L

RT: 11.21 min Scan# 3147

Delta R.T. 0.01 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

Instrument :

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ClientSampleId :

C0FH2

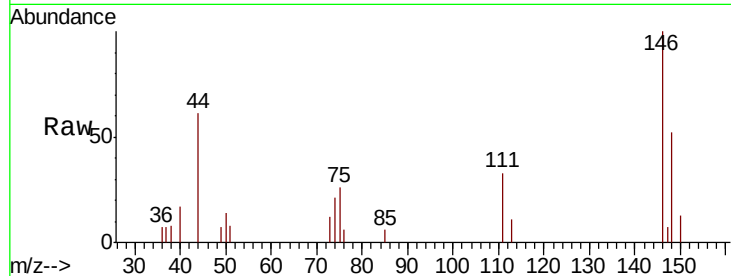
Tot Ion:146 Resp: 3142

Ion Ratio Lower Upper

146 100

111 33.4 28.8 53.4

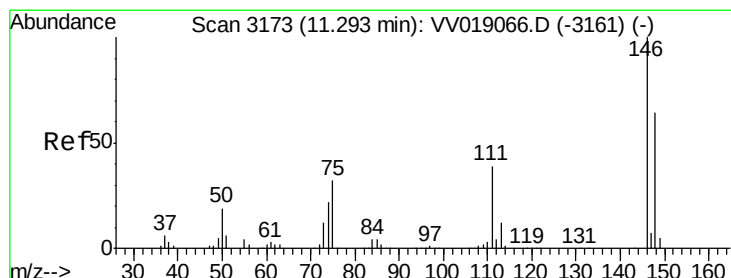
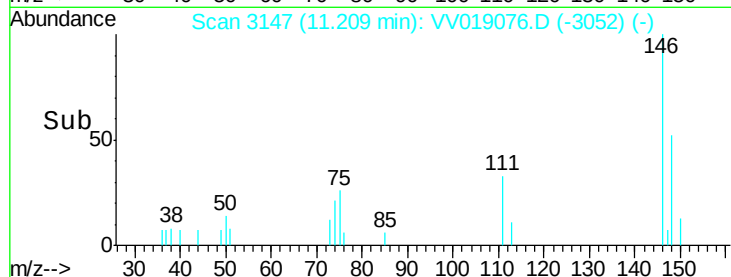
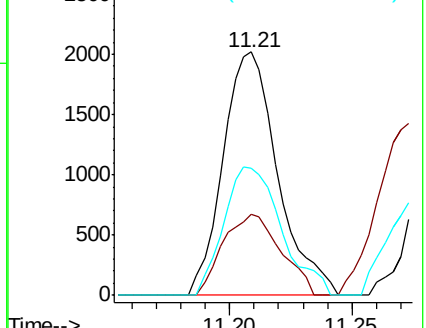
148 52.4 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 1.637 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

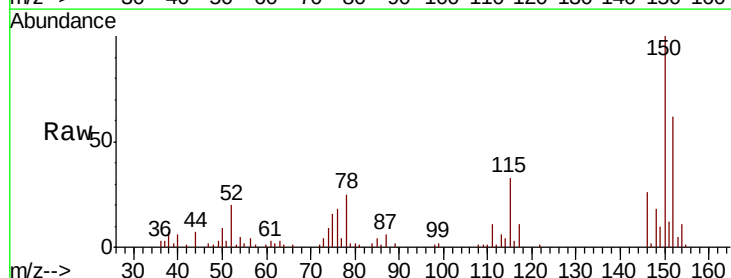
Tgt Ion:146 Resp: 7317

Ion Ratio Lower Upper

146 100

111 40.6 27.8 51.6

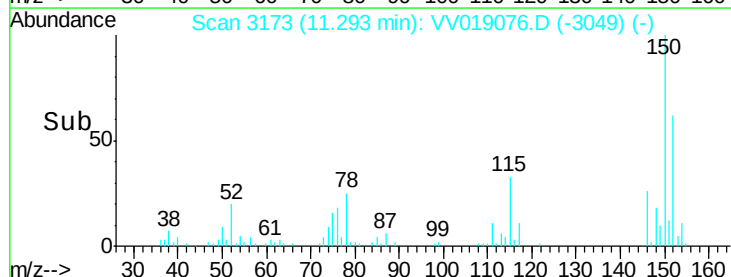
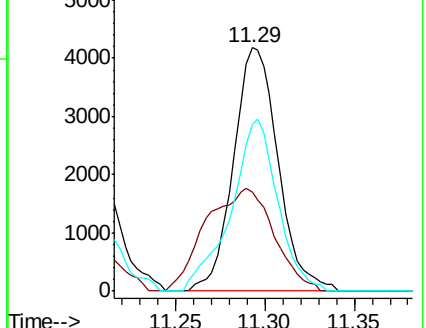
148 68.7 45.1 83.9

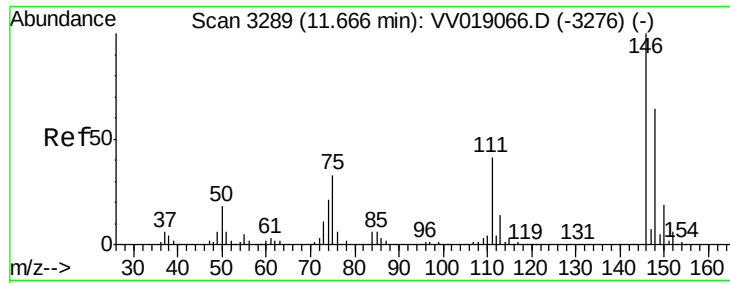


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

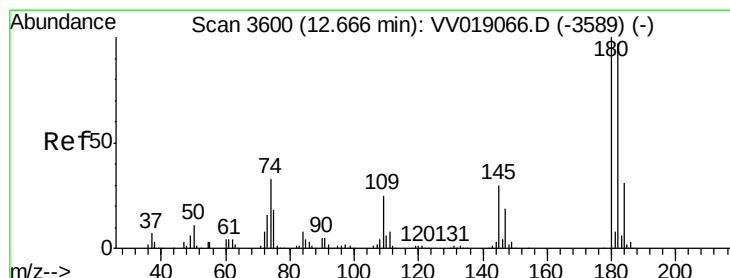
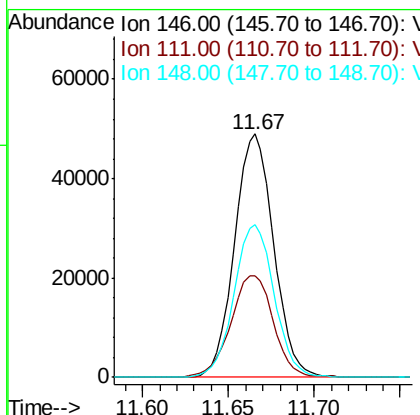
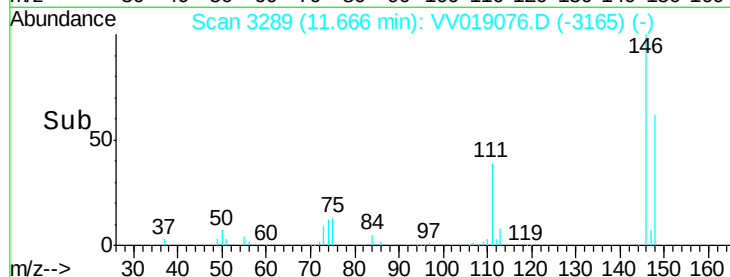
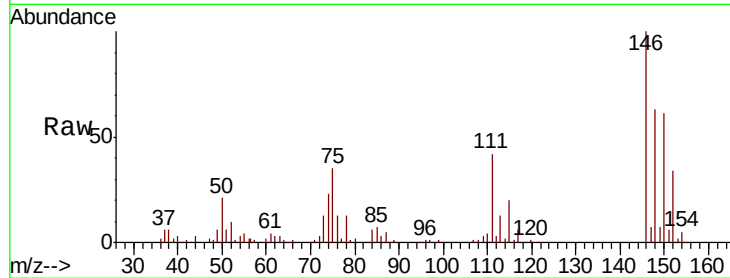




#65
 1,2-Dichlorobenzene
 Concen: 18.061 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV019076.D
 Acq: 22 Oct 2020 18:36

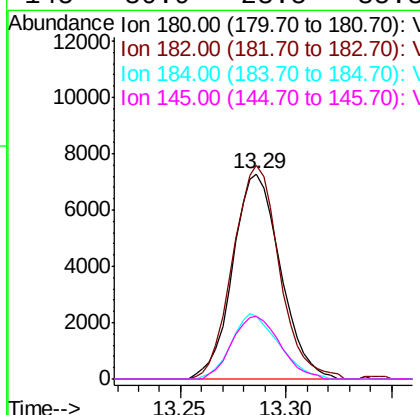
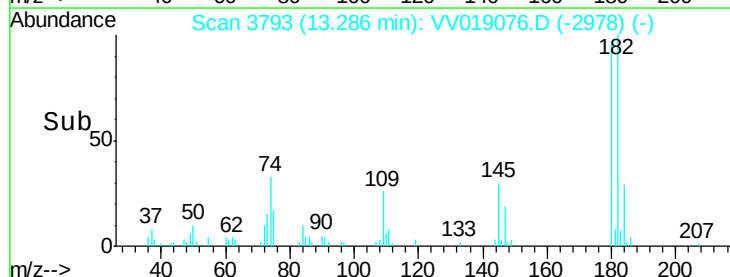
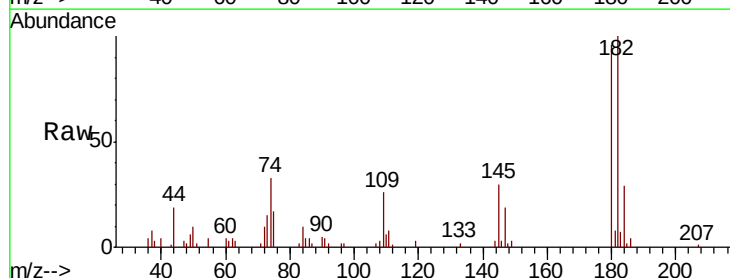
Instrument :
 MSVOA_V
 ClientSampleId :
 C0FH2

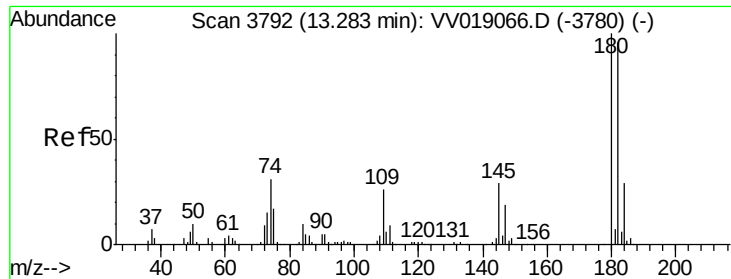
Tot Ion:146 Resp: 77919
 Ion Ratio Lower Upper
 146 100
 111 41.9 33.3 49.9
 148 62.9 51.1 76.7



#67
 1,3,5-Trichlorobenzene
 Concen: 3.913 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.62 min
 Lab File: VV019076.D
 Acq: 22 Oct 2020 18:36

Tgt Ion:180 Resp: 11434
 Ion Ratio Lower Upper
 180 100
 182 101.8 77.4 116.0
 184 31.5 24.7 37.1
 145 30.9 23.5 35.3





#68

1,2,4-trichlorobenzene

Concen: 4.150 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.00 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

Instrument :

MSVOA_V

ClientSampleId :

C0FH2

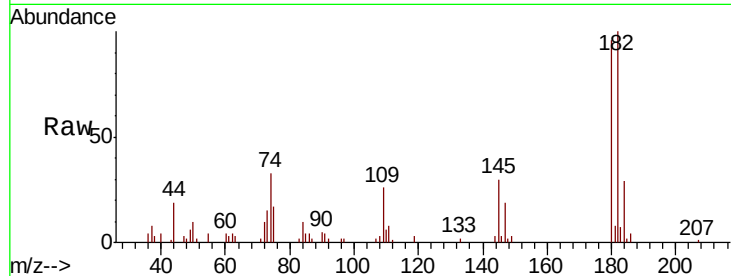
Tot Ion:180 Resp: 11434

Ion Ratio Lower Upper

180 100

182 101.8 77.4 116.2

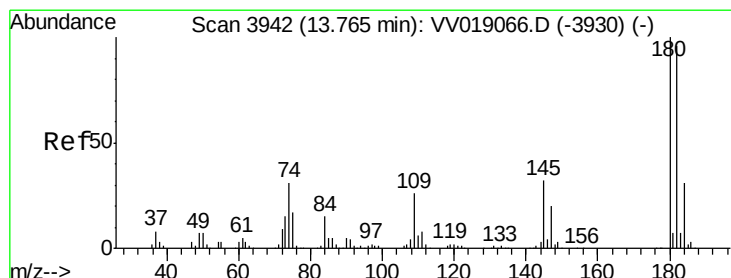
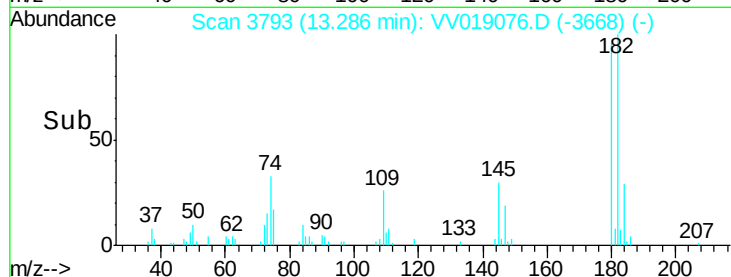
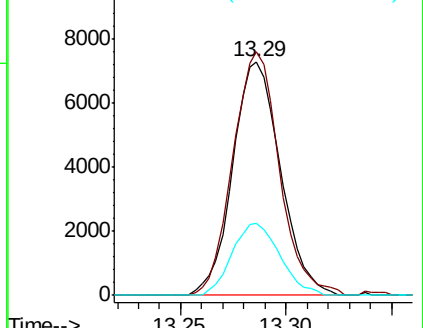
145 30.9 23.7 35.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.780 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV019076.D

Acq: 22 Oct 2020 18:36

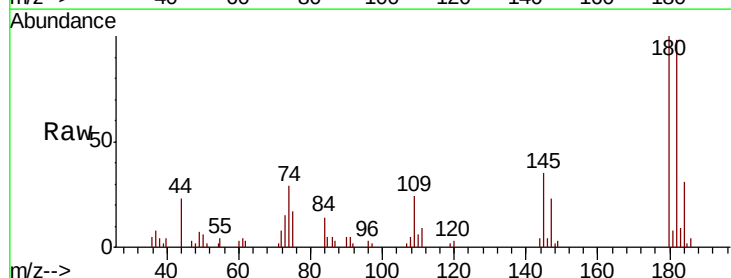
Tgt Ion:180 Resp: 10551

Ion Ratio Lower Upper

180 100

182 101.0 76.9 115.3

145 34.1 25.6 38.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

