

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081220\
 Data File : VV017957.D
 Acq On : 13 Aug 2020 04:03
 Operator : SY/MD
 Sample : L3644-16
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F2L98

Quant Time: Aug 13 06:03:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 13 05:58:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	249587	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	239477	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	112432	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	76959	40.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.82%
7) Chloroethane-d5	1.58	69	69797	44.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.12	63	113060	31.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.08%
21) 2-Butanone-d5	3.91	46	150585	120.73	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.73%
24) Chloroform-d	4.38	84	157276	45.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.74%
26) 1,2-Dichloroethane-d4	5.06	65	110225	48.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.90%
32) Benzene-d6	5.07	84	309941	46.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.92%
36) 1,2-Dichloropropane-d6	6.09	67	106407	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.64%
41) Toluene-d8	7.34	98	277422	46.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.48%
43) trans-1,3-Dichloropropene-	7.64	79	15035	15.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	30.72%#
47) 2-Hexanone-d5	8.11	63	95891	138.49	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	138.49%#
57) 1,1,2,2-Tetrachloroethane-	10.24	84	146002	51.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.92%
64) 1,2-Dichlorobenzene-d4	11.65	152	104078	47.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.08%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.13	62	1678	0.757	ug/L	90
8) Chloroethane	1.32	64	5483	3.874	ug/L	92
13) Acetone	2.19	43	2394139	1858.419	ug/L	93
14) Carbon disulfide	2.31	76	18055	3.918	ug/L	100
15) Methyl Acetate	2.45	43	335890	161.564	ug/L #	90
17) trans-1,2-Dichloroethene	2.78	96	1202	0.698	ug/L	90
20) cis-1,2-Dichloroethene	3.94	96	17507	9.257	ug/L	96
22) 2-Butanone	3.99	43	160196	110.845	ug/L	98
33) Benzene	5.13	78	21457	2.896	ug/L	100
34) Trichloroethene	5.94	95	7602	3.882	ug/L	97
35) Methylcyclohexane	6.09	83	24811	8.520	ug/L #	17
37) 1,2-Dichloropropane	6.09	63	11523	5.703	ug/L #	87
39) cis-1,3-Dichloropropene	7.20	75	1776	0.620	ug/L #	43
40) 4-Methyl-2-pentanone	7.25	43	177809	67.318	ug/L	99
42) Toluene	7.41	91	15254	1.973	ug/L	100
46) Tetrachloroethene	8.00	164	3452	2.403	ug/L	96
49) Dibromochloromethane	8.00	129	3025	1.656	ug/L #	10

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Quant Title : VOC Analysis
QLast Update : Thu Aug 13 05:58:58 2020
Response via : Initial Calibration

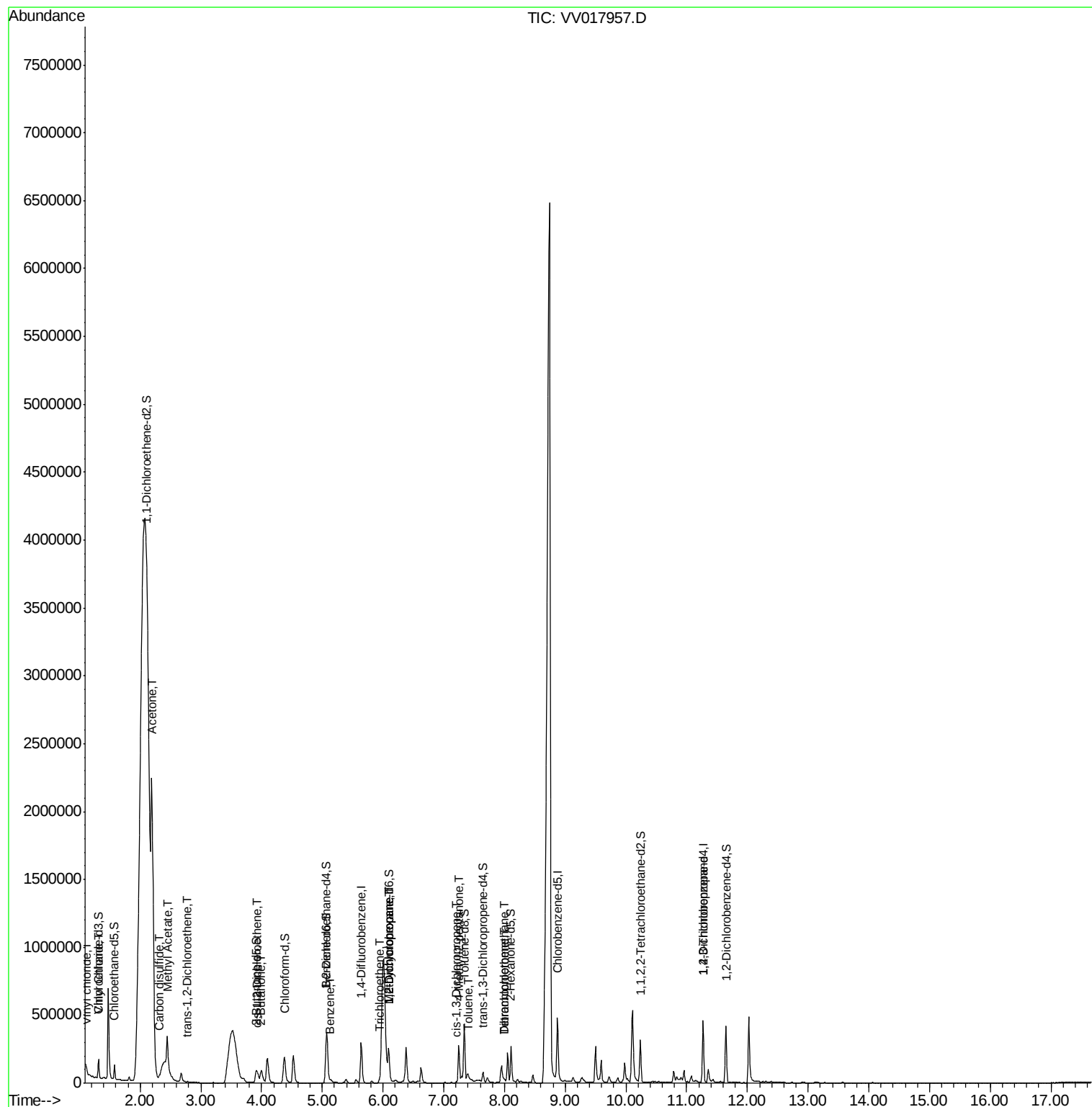
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.27	75	14301	5.731	ug/L	91

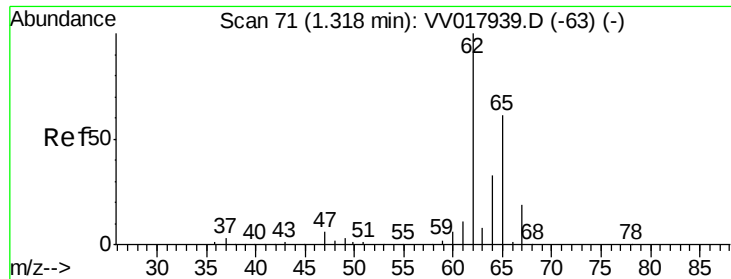
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.757 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.19 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

Instrument :

MSVOA_V

ClientSampleId :

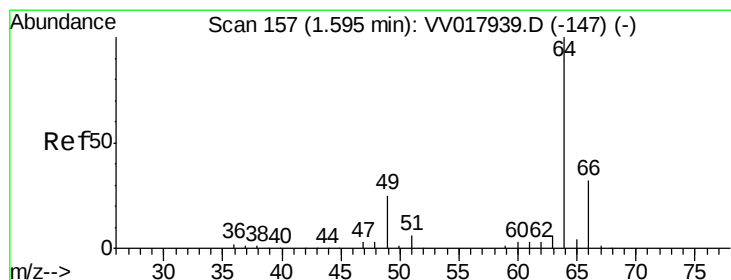
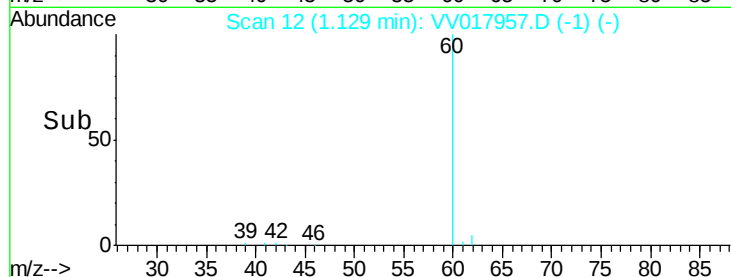
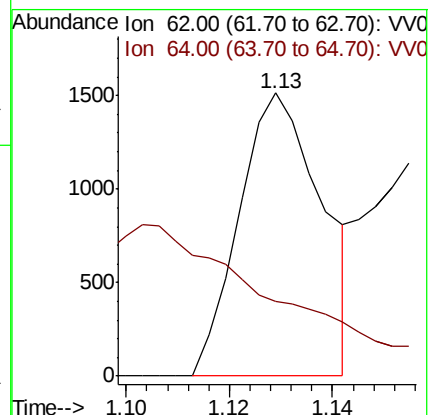
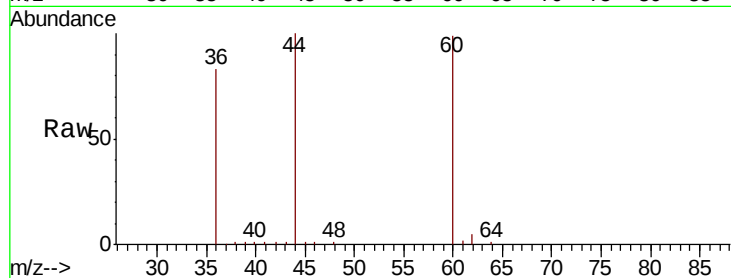
F2L98

Tot Ion: 62 Resp: 1678

Ion Ratio Lower Upper

62 100

64 26.4 22.4 41.6



#8

Chloroethane

Concen: 3.874 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV017957.D

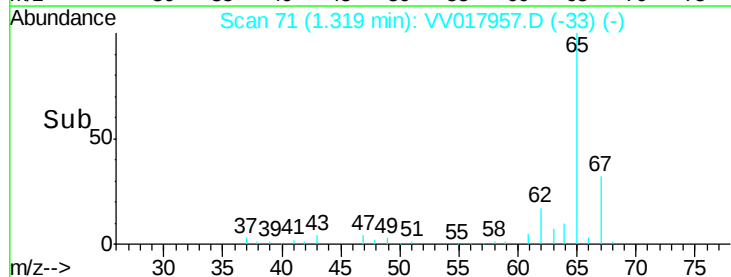
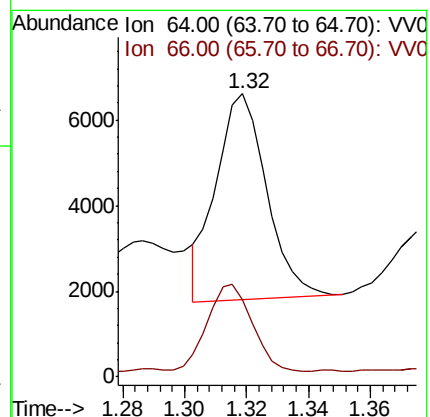
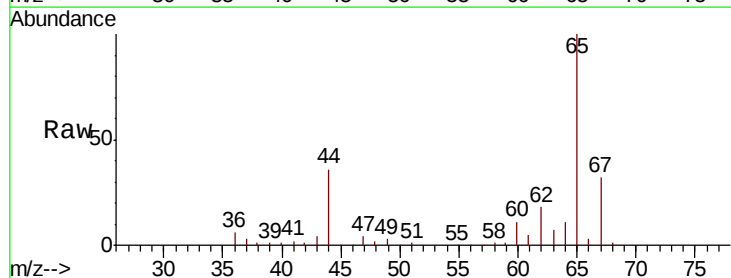
Acq: 13 Aug 2020 04:03

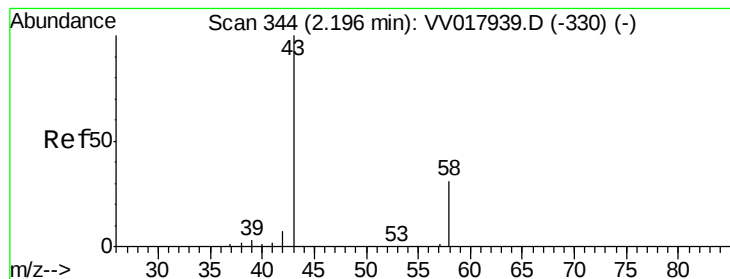
Tgt Ion: 64 Resp: 5483

Ion Ratio Lower Upper

64 100

66 27.2 22.3 41.3





#13

Acetone

Concen: 1858.419 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

Instrument :

MSVOA_V

ClientSampleId :

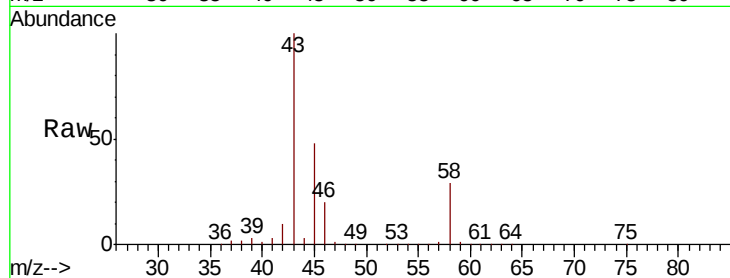
F2L98

Tot Ion: 43 Resp: 2394139

Ion Ratio Lower Upper

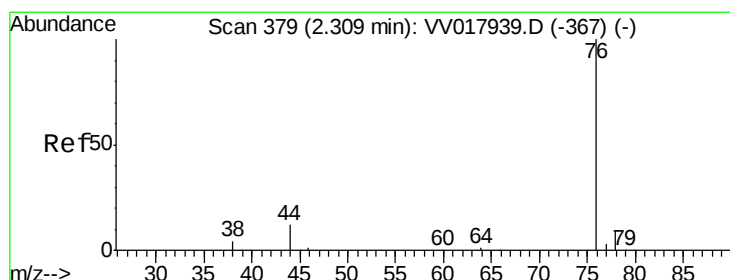
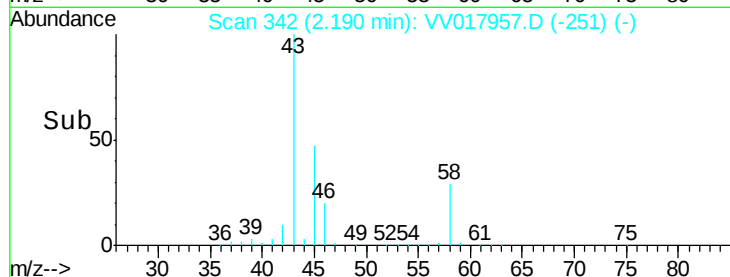
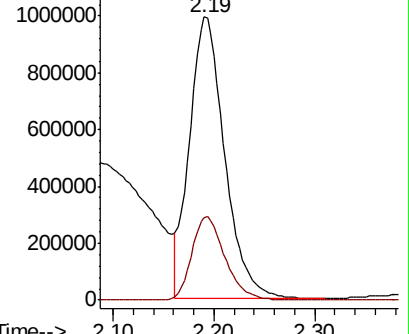
43 100

58 28.0 0.0 63.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 3.918 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV017957.D

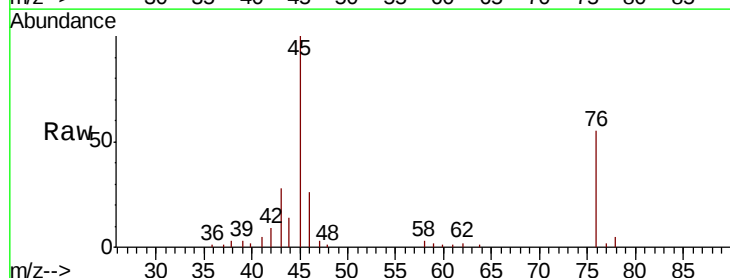
Acq: 13 Aug 2020 04:03

Tgt Ion: 76 Resp: 18055

Ion Ratio Lower Upper

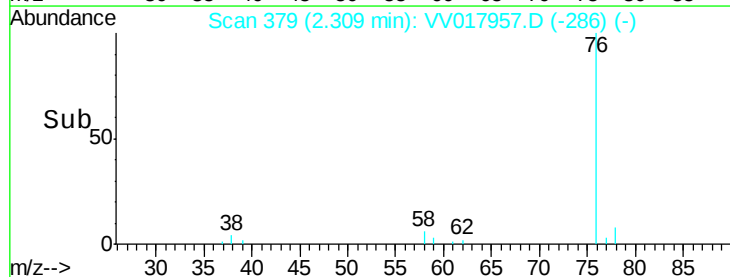
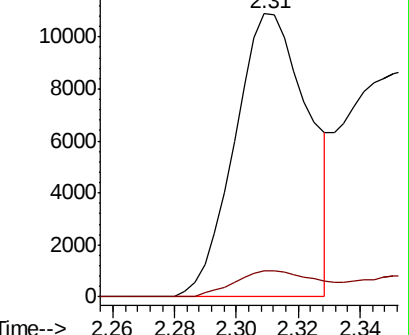
76 100

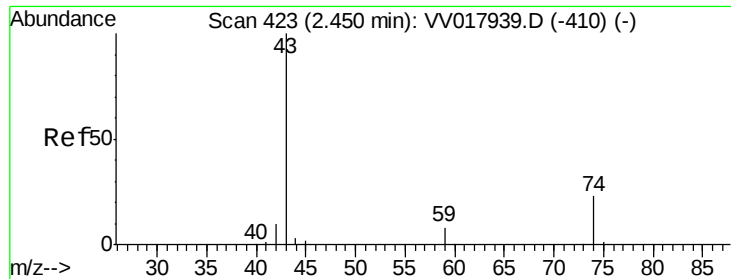
78 9.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 161.564 ug/L

RT: 2.45 min Scan# 422

Delta R.T. -0.00 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

Instrument :

MSVOA_V

ClientSampled :

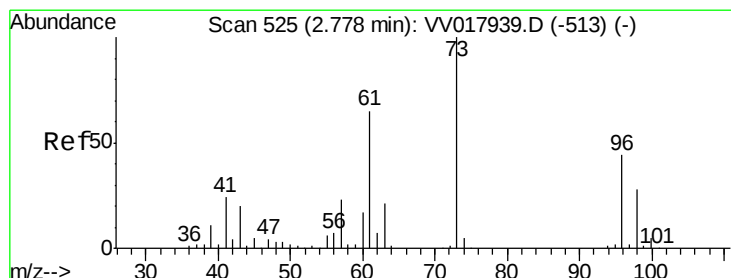
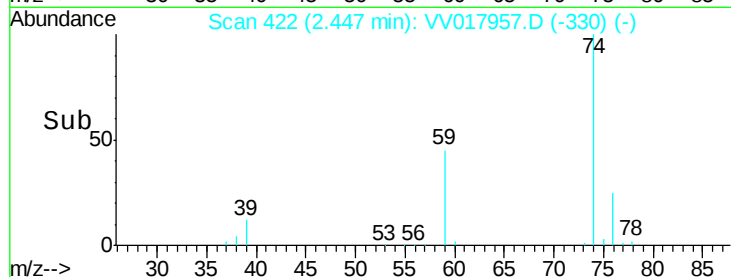
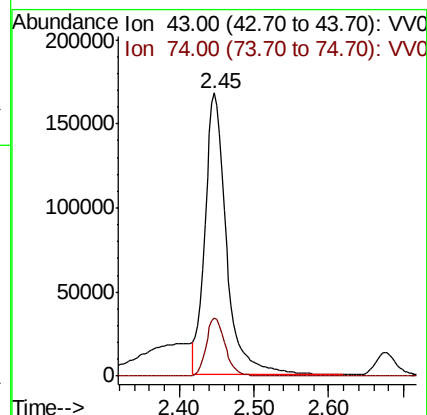
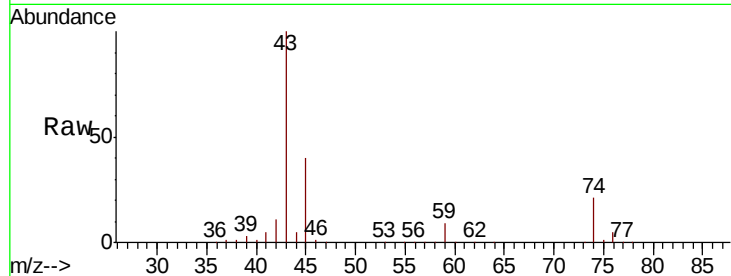
F2L98

Tot Ion: 43 Resp: 335890

Ion Ratio Lower Upper

43 100

74 18.4 18.4 27.6#



#17

trans-1,2-Dichloroethene

Concen: 0.698 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

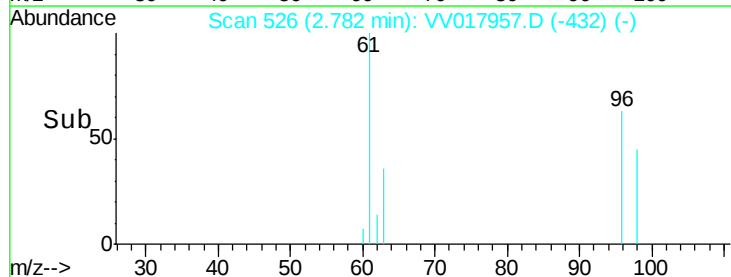
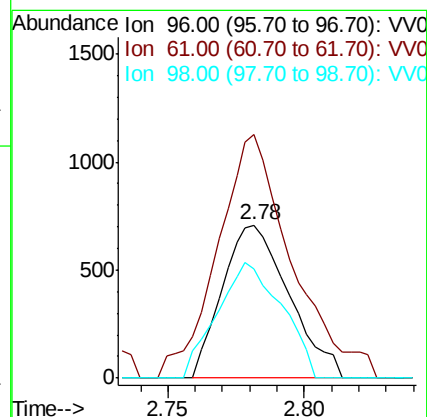
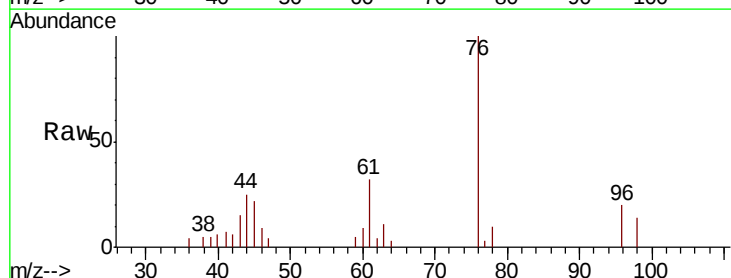
Tgt Ion: 96 Resp: 1202

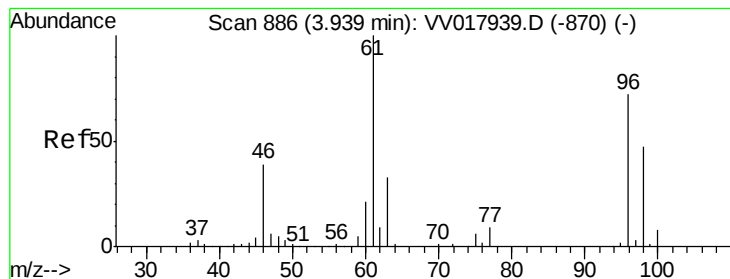
Ion Ratio Lower Upper

96 100

61 159.0 102.4 190.2

98 71.1 44.4 82.5





#20

cis-1,2-Dichloroethene

Concen: 9.257 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

Instrument :

MSVOA_V

ClientSampleId :

F2L98

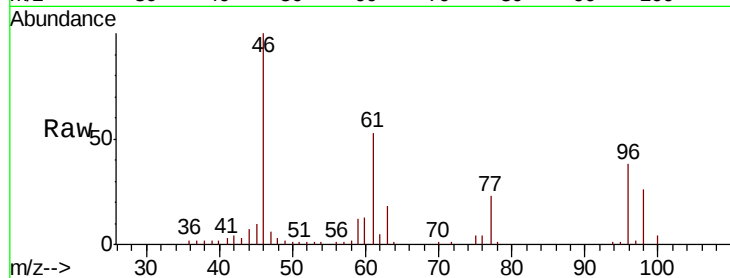
Tot Ion: 96 Resp: 17507

Ion Ratio Lower Upper

96 100

61 140.6 95.0 176.4

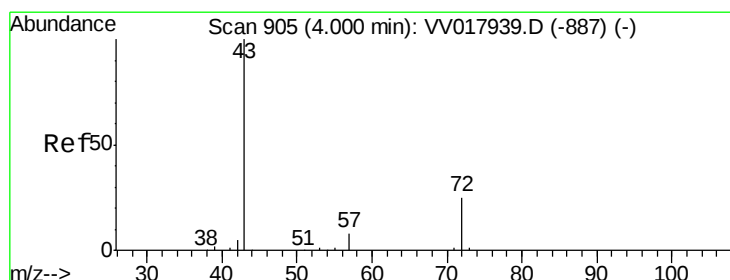
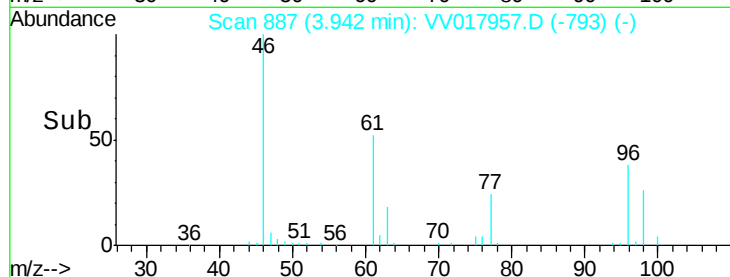
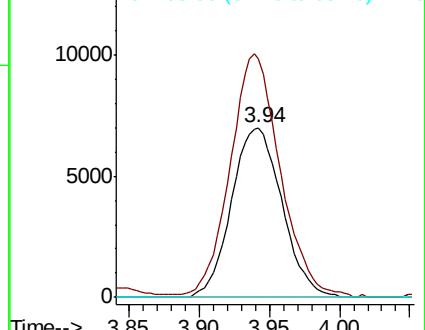
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0



#22

2-Butanone

Concen: 110.845 ug/L

RT: 3.99 min Scan# 903

Delta R.T. -0.01 min

Lab File: VV017957.D

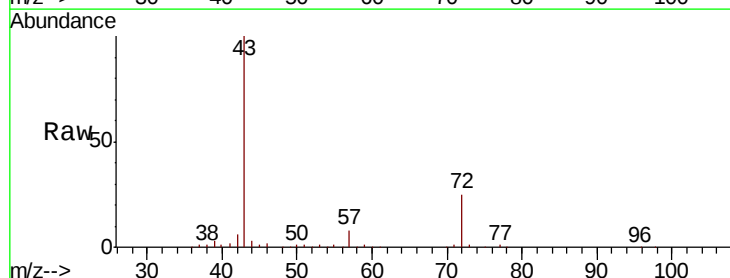
Acq: 13 Aug 2020 04:03

Tgt Ion: 43 Resp: 160196

Ion Ratio Lower Upper

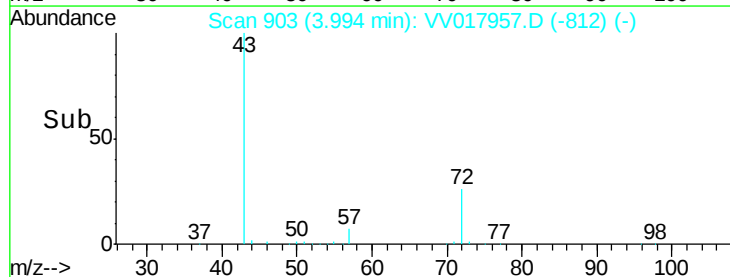
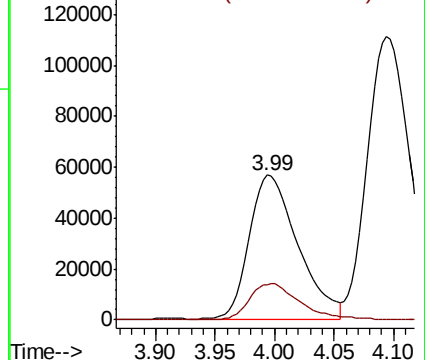
43 100

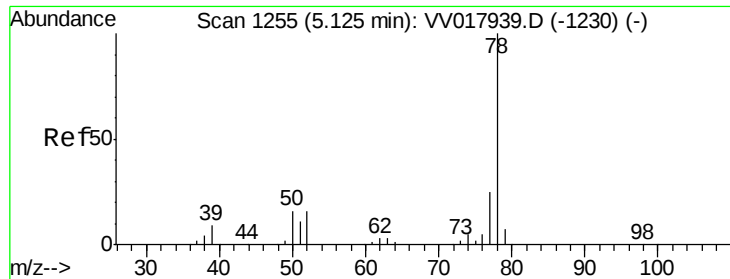
72 26.1 12.7 38.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0





#33

Benzene

Concen: 2.896 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

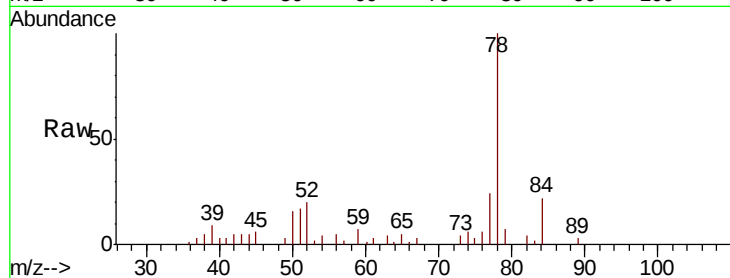
Instrument :

MSVOA_V

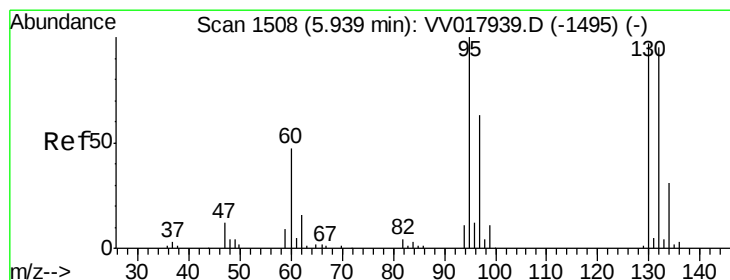
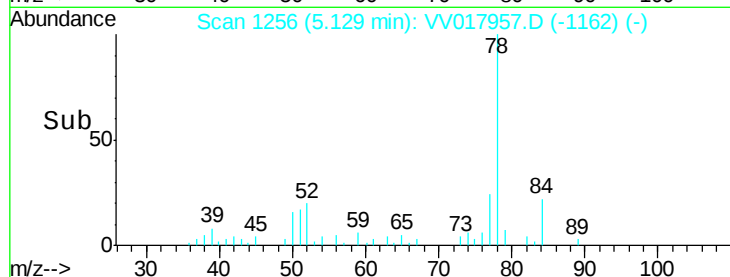
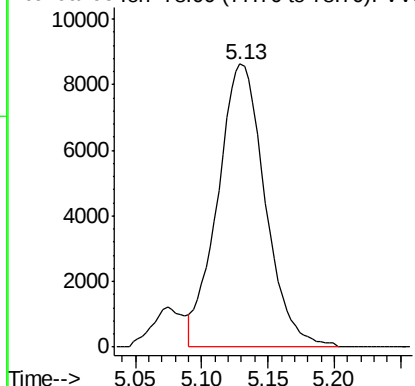
ClientSampleId :

F2L98

Tgt Ion: 78 Resp: 21457



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 3.882 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

Tgt Ion: 95 Resp: 7602

Ion	Ratio	Lower	Upper
95	100		
97	63.7	46.0	85.4
132	97.3	65.8	122.2
130	96.5	69.2	128.6

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

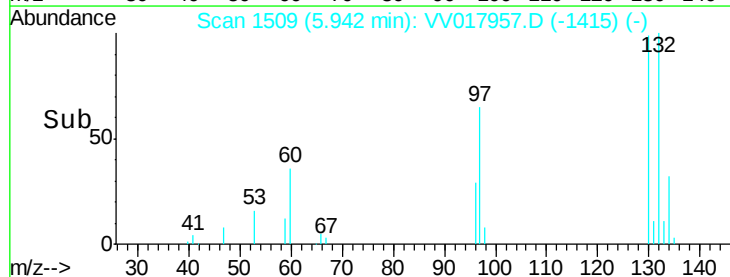
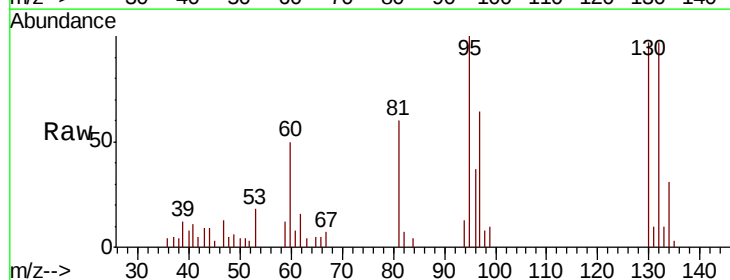
Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

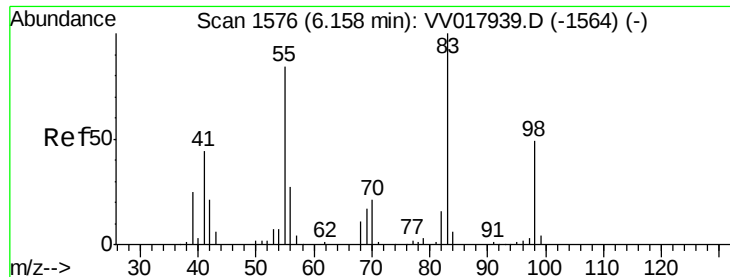
Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

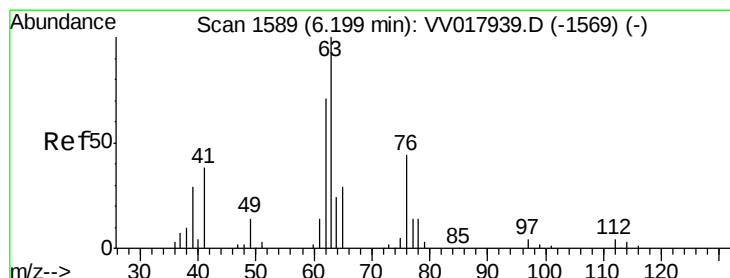
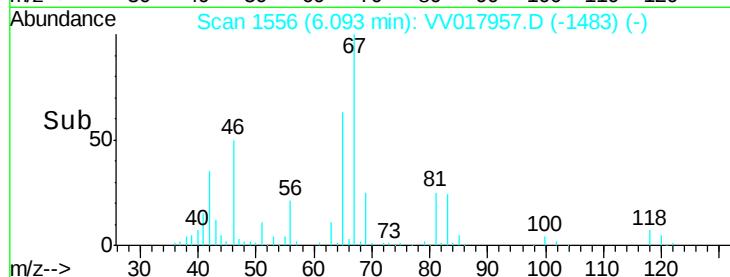
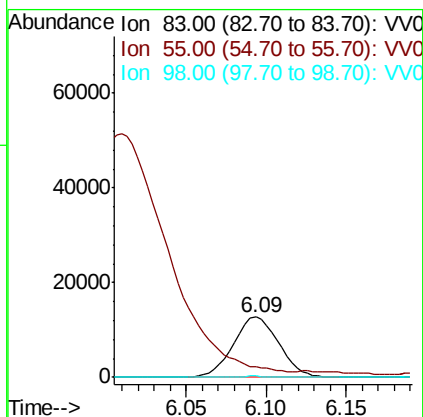
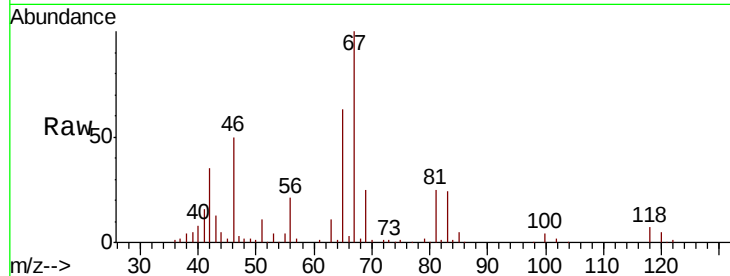
Ion 130.00 (129.70 to 130.70): VV0



#35
Methvlcvclohexane
Concen: 8.520 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.06 min
Lab File: VV017957.D
Acq: 13 Aug 2020 04:03

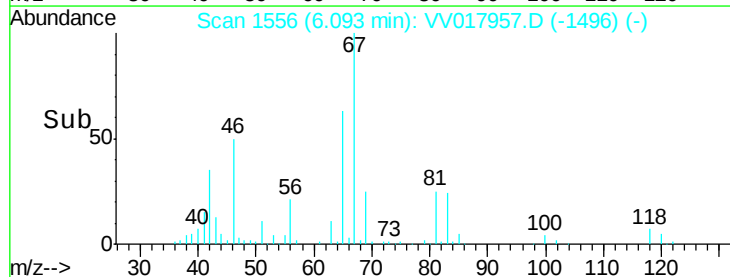
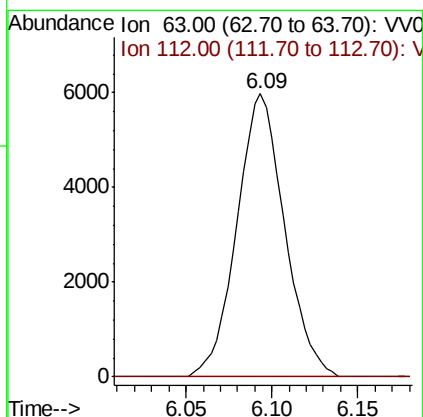
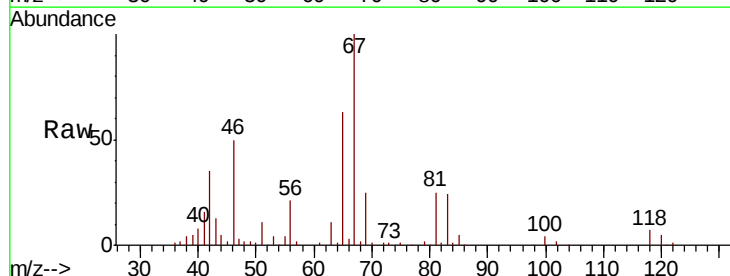
Instrument :
MSVOA_V
ClientSampled :
F2L98

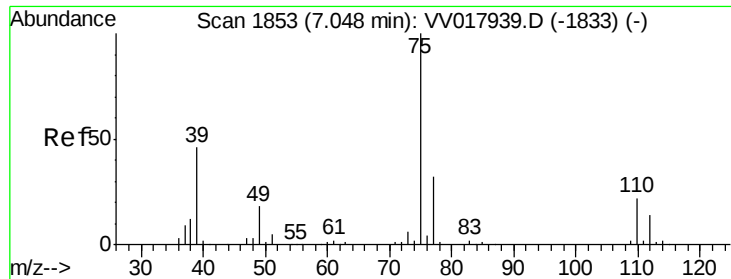
Tot Ion: 83 Resp: 24811
Ion Ratio Lower Upper
83 100
55 0.0 64.9 97.3#
98 1.2 38.7 58.1#



#37
1,2-Dichloropropane
Concen: 5.703 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.11 min
Lab File: VV017957.D
Acq: 13 Aug 2020 04:03

Tgt Ion: 63 Resp: 11523
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#

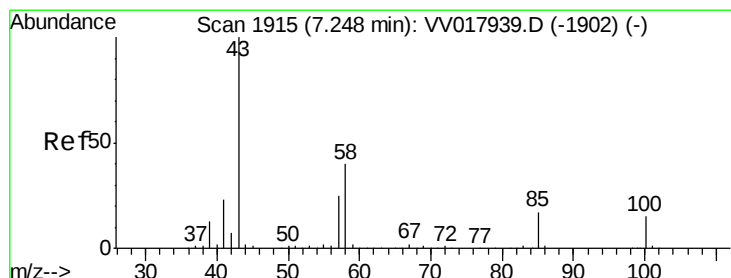
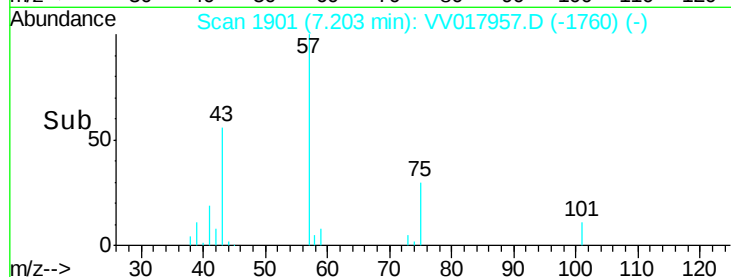
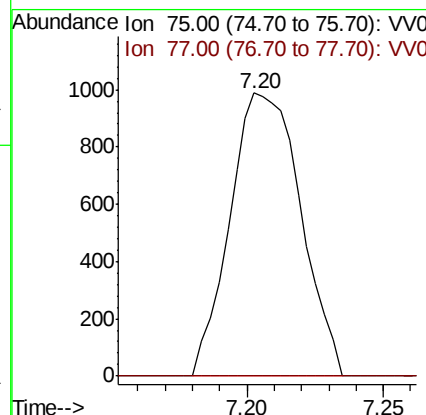
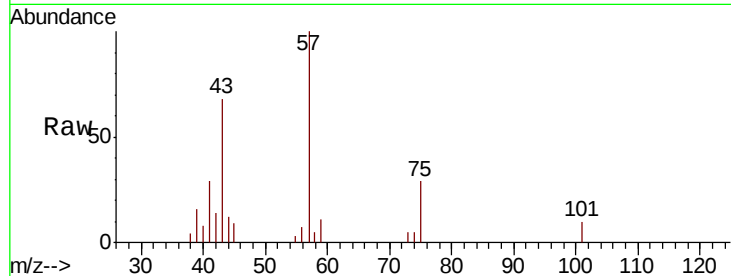




#39
 cis-1,3-Dichloropropene
 Concen: 0.620 ug/L
 RT: 7.20 min Scan# 1901
 Delta R.T. 0.15 min
 Lab File: VV017957.D
 Acq: 13 Aug 2020 04:03

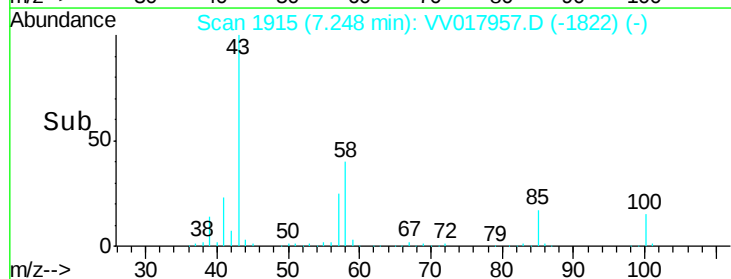
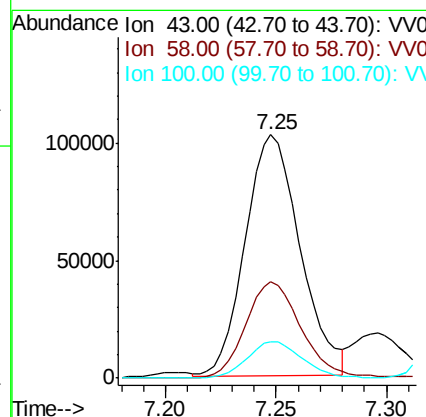
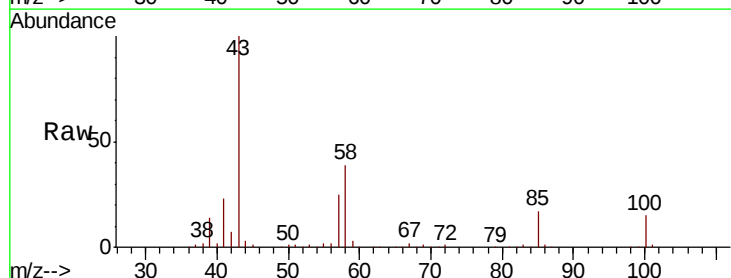
Instrument :
 MSVOA_V
 ClientSampled :
 F2L98

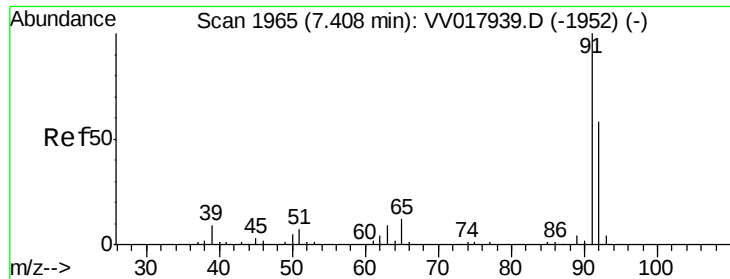
Tot Ion: 75 Resp: 1776
 Ion Ratio Lower Upper
 75 100
 77 0.0 22.3 41.5#



#40
 4-Methyl-2-pentanone
 Concen: 67.318 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VV017957.D
 Acq: 13 Aug 2020 04:03

Tgt Ion: 43 Resp: 177809
 Ion Ratio Lower Upper
 43 100
 58 40.8 31.9 47.9
 100 15.2 12.2 18.2





#42

Toluene

Concen: 1.973 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

Instrument :

MSVOA_V

ClientSampleId :

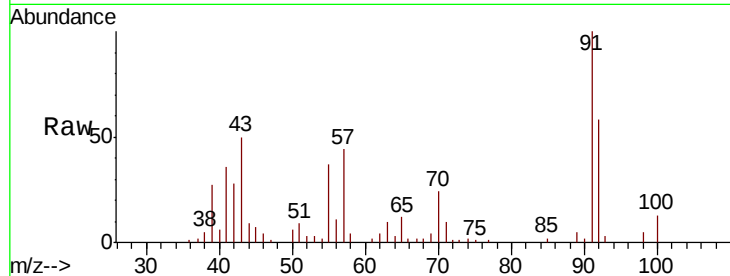
F2L98

Tot Ion: 91 Resp: 15254

Ion Ratio Lower Upper

91 100

92 58.3 40.6 75.4

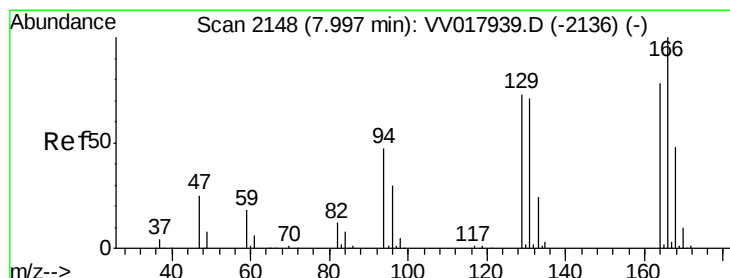
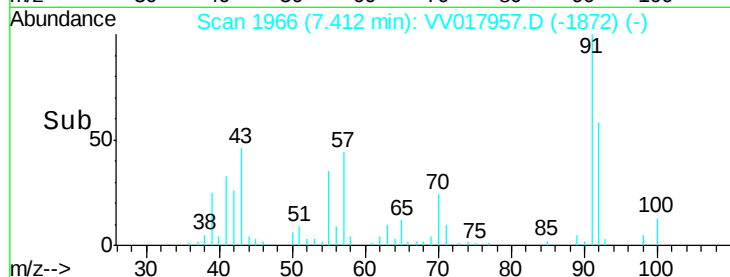


Abundance Ion 91.00 (90.70 to 91.70): VV017939.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV017939.D (-1952) (-)

7.41

Time-->



#46

Tetrachloroethene

Concen: 2.403 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017957.D

Acq: 13 Aug 2020 04:03

Tgt Ion: 164 Resp: 3452

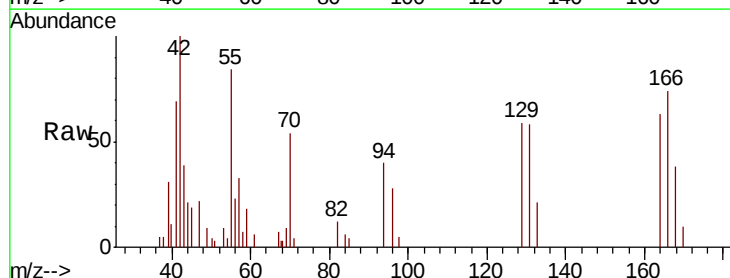
Ion Ratio Lower Upper

164 100

129 92.7 64.8 120.3

131 92.2 64.5 119.9

166 116.9 88.9 165.1



Abundance Ion 164.00 (163.70 to 164.70): VV017939.D (-2136) (-)

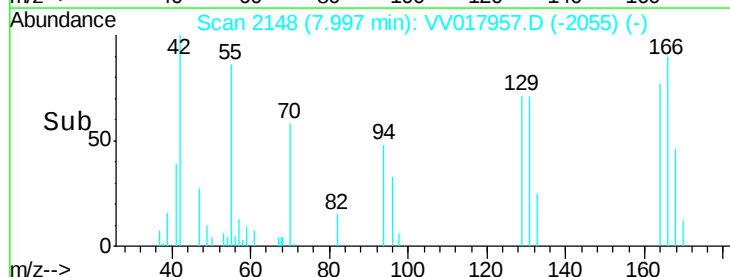
Ion 129.00 (128.70 to 129.70): VV017939.D (-2136) (-)

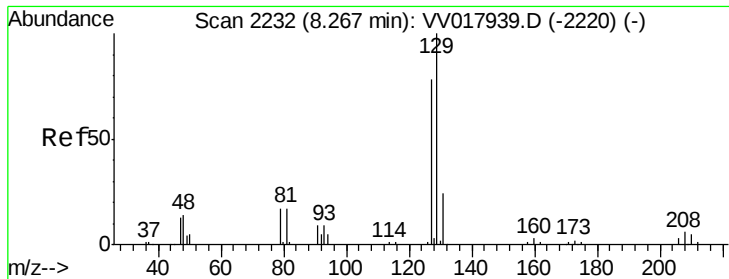
Ion 131.00 (130.70 to 131.70): VV017939.D (-2136) (-)

Ion 166.00 (165.70 to 166.70): VV017939.D (-2136) (-)

8.00

Time-->

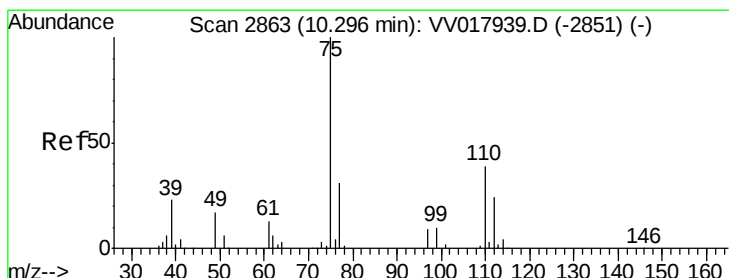
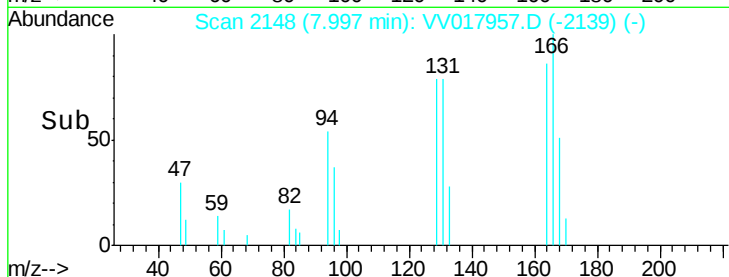
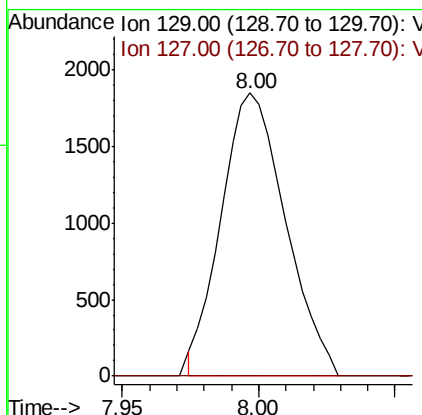
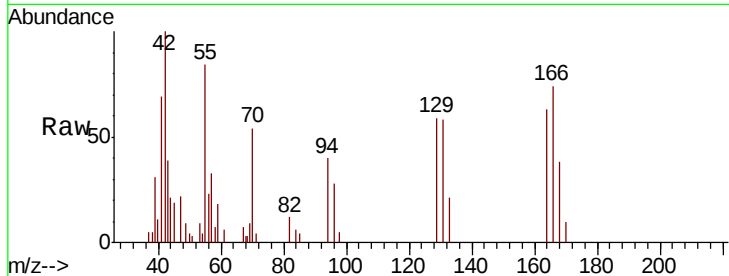




#49
 Dibromochloromethane
 Concen: 1.656 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.27 min
 Lab File: VV017957.D
 Acq: 13 Aug 2020 04:03

Instrument :
 MSVOA_V
 ClientSampleId :
 F2L98

Tot Ion:129 Resp: 3025
 Ion Ratio Lower Upper
 129 100
 127 0.0 54.9 101.9#



#59
 1,2,3-Trichloropropane
 Concen: 5.731 ug/L
 RT: 11.27 min Scan# 3166
 Delta R.T. 0.97 min
 Lab File: VV017957.D
 Acq: 13 Aug 2020 04:03

Tgt Ion: 75 Resp: 14301
 Ion Ratio Lower Upper
 75 100
 77 36.9 25.7 38.5

