

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042420\
 Data File : VV015675.D
 Acq On : 24 Apr 2020 15:43
 Operator : SY/MD
 Sample : L2370-14
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 25 00:19:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 25 00:15:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	121301	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	116559	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	57684	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	35698	5.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.60%
7) Chloroethane-d5	1.58	69	28486	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.20%
11) 1,1-Dichloroethene-d2	2.12	63	45435	3.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.40%
20) 2-Butanone-d5	3.91	46	105206	51.69	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.38%
24) Chloroform-d	4.38	84	70793	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.06	65	41089	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	5.08	84	131563	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.10	67	42986	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.34	98	121297	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	7.65	79	14461	4.21	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.20%
46) 2-Hexanone-d5	8.11	63	80120	47.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.58%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	31209	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.20%
64) 1,2-Dichlorobenzene-d4	11.65	152	47163	4.81	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	719	0.080	ug/L	83
5) Vinyl chloride	1.32	62	1114655	116.111	ug/L	100
8) Chloroethane	1.40	64	13788	2.187	ug/L #	52
12) 1,1-Dichloroethene	2.14	96	1820	0.258	ug/L #	1
14) Carbon disulfide	2.31	76	955	0.048	ug/L #	75
17) Methyl tert-butyl Ether	2.79	73	3506	0.177	ug/L #	89
18) trans-1,2-Dichloroethene	2.78	96	2888	0.365	ug/L	95
22) cis-1,2-Dichloroethene	3.94	96	574233	65.700	ug/L	98
34) Trichloroethene	5.94	95	18761	2.040	ug/L	95
35) Methylcyclohexane	6.10	83	10829	0.767	ug/L #	16
37) 1,2-Dichloropropane	6.10	63	5427	0.641	ug/L #	86
39) cis-1,3-Dichloropropene	7.01	75	1331	0.113	ug/L	86
44) trans-1,3-Dichloropropene	7.65	75	783	0.079	ug/L #	43
47) Tetrachloroethene	8.00	164	14712	2.222	ug/L	94
48) 2-Hexanone	8.17	43	2341	0.598	ug/L #	47
49) Dibromochloromethane	8.00	129	14919	2.499	ug/L #	12

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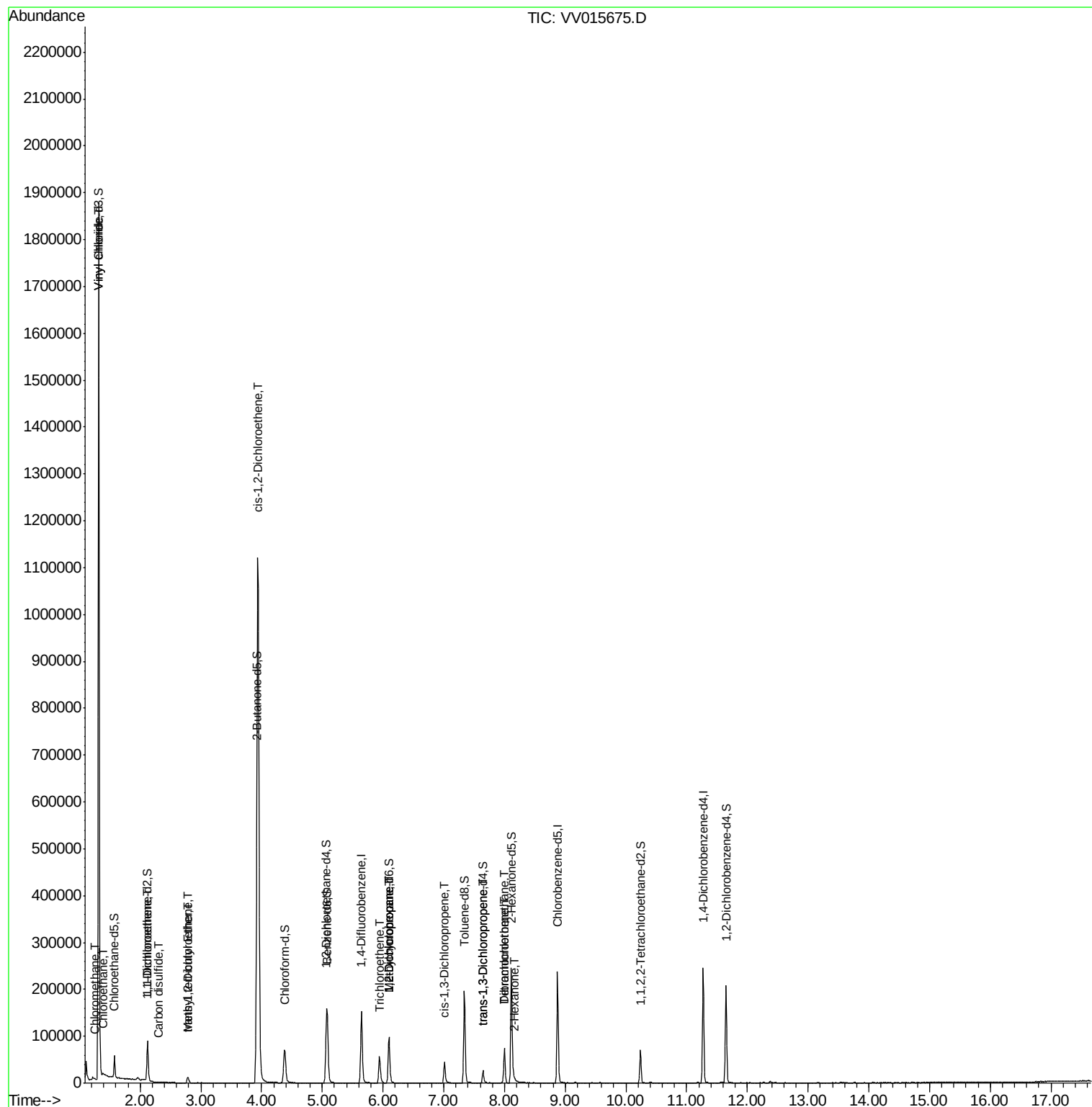
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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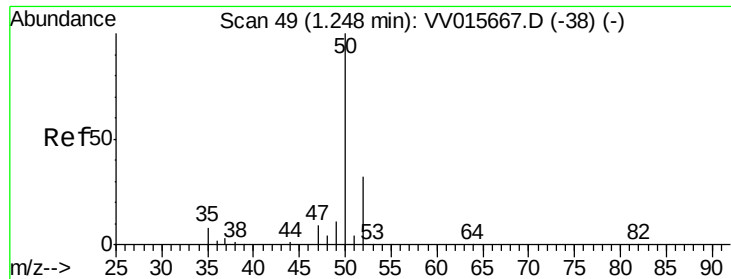
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.080 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

Instrument :

MSVOA_V

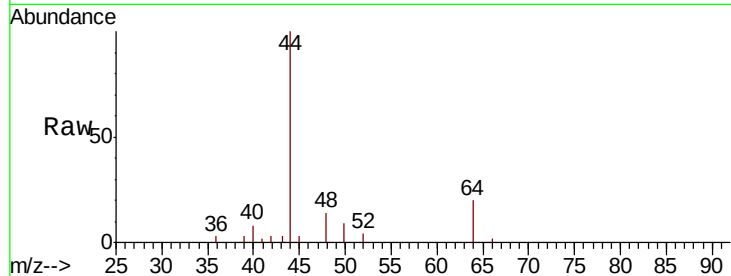
ClientSampled :

Tot Ion: 50 Resp: 719

Ion Ratio Lower Upper

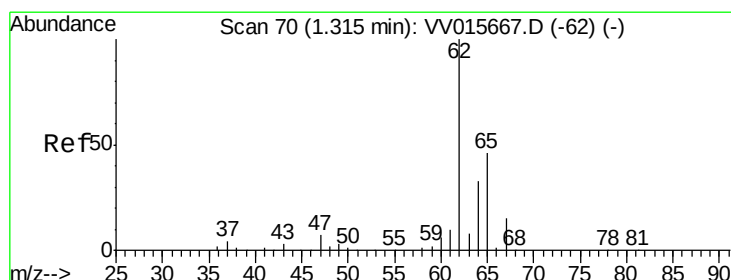
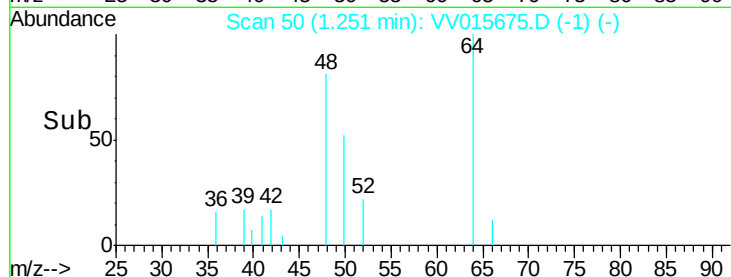
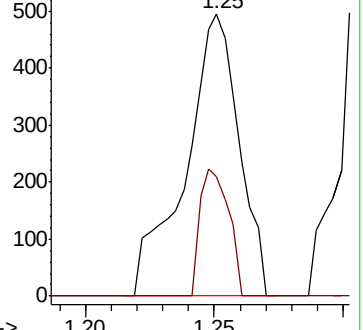
50 100

52 42.2 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 116.111 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015675.D

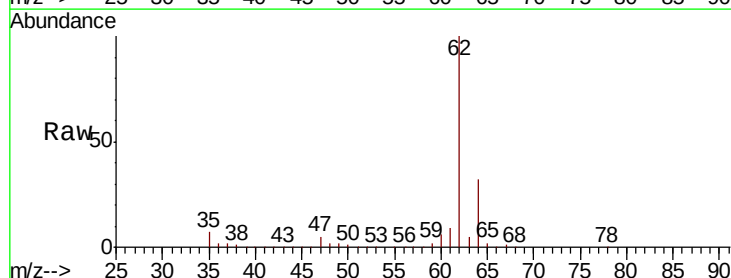
Acq: 24 Apr 2020 15:43

Tgt Ion: 62 Resp: 1114655

Ion Ratio Lower Upper

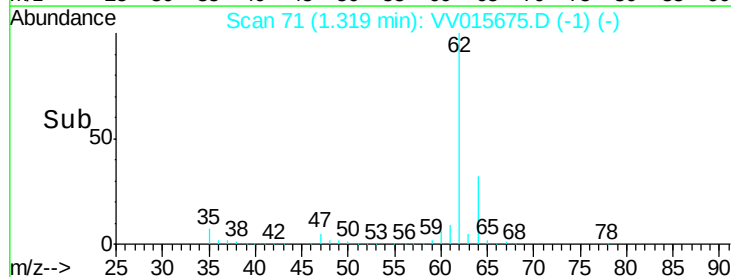
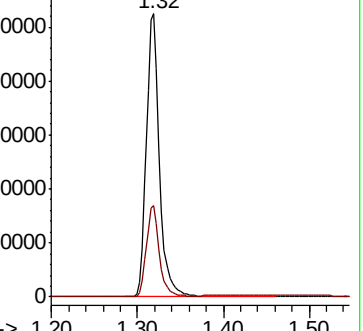
62 100

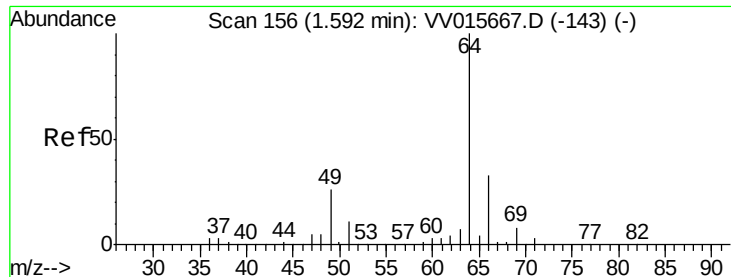
64 32.2 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 2.187 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.19 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

Instrument :

MSVOA_V

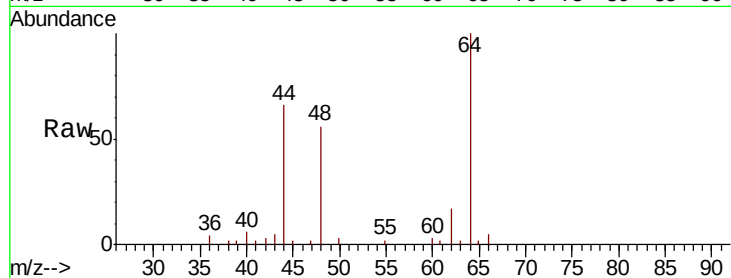
ClientSampleId :

Tot Ion: 64 Resp: 13788

Ion Ratio Lower Upper

64 100

66 5.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

200000

150000

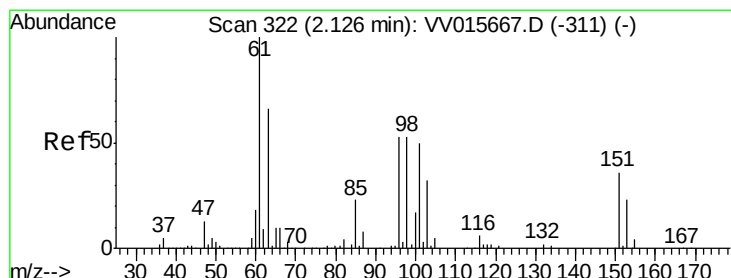
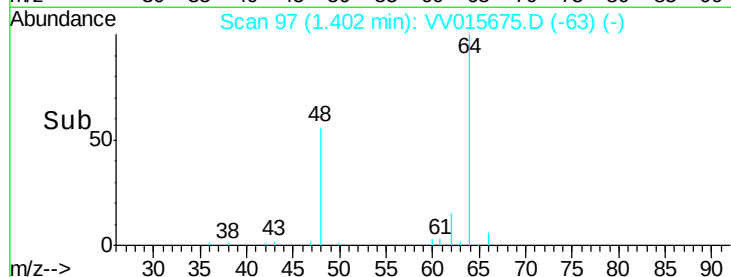
100000

50000

0

1.35 1.40 1.45

Time-->



#12

1,1-Dichloroethene

Concen: 0.258 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

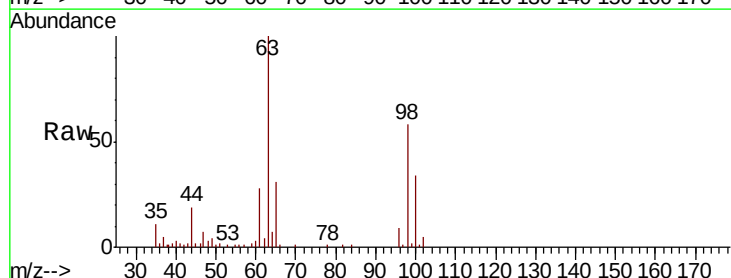
Tgt Ion: 96 Resp: 1820

Ion Ratio Lower Upper

96 100

61 300.6 130.1 241.7#

63 1066.8 91.4 169.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

40000

30000

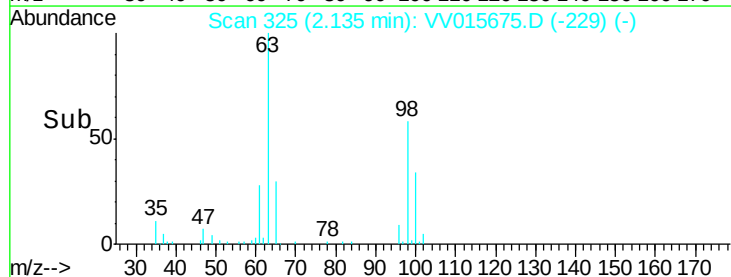
20000

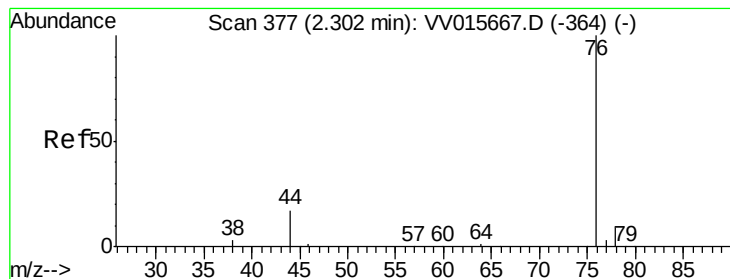
10000

0

2.10 2.15

Time-->





#14

Carbon disulfide

Concen: 0.048 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

Instrument :

MSVOA_V

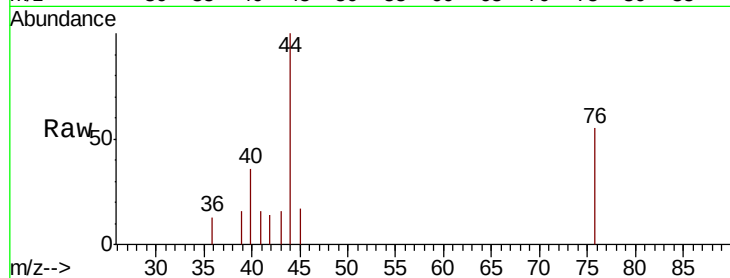
ClientSampled :

Tot Ion: 76 Resp: 955

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

400

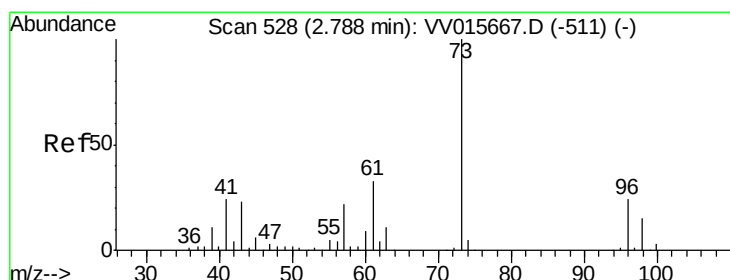
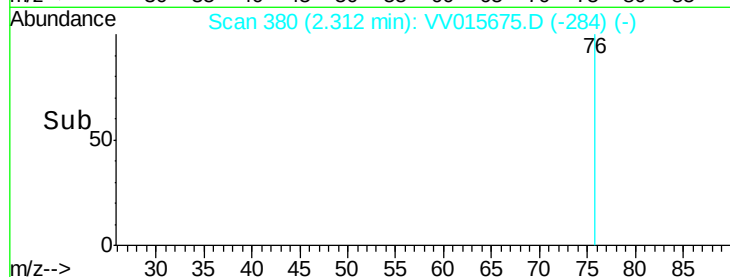
300

200

100

0

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.177 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.01 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

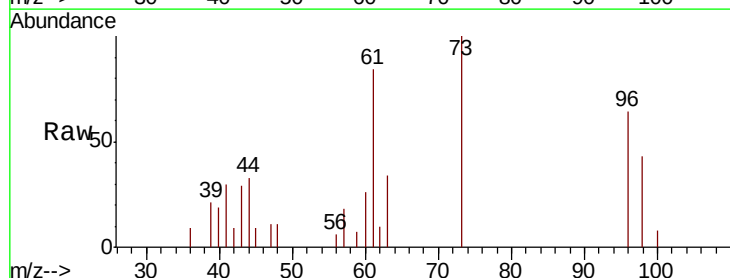
Tgt Ion: 73 Resp: 3506

Ion Ratio Lower Upper

73 100

43 32.7 20.1 30.1#

57 19.6 17.8 26.8



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

2000

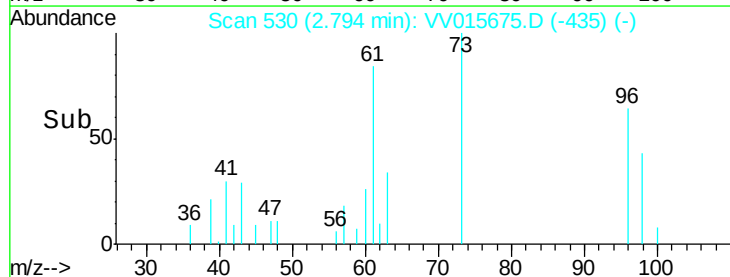
1500

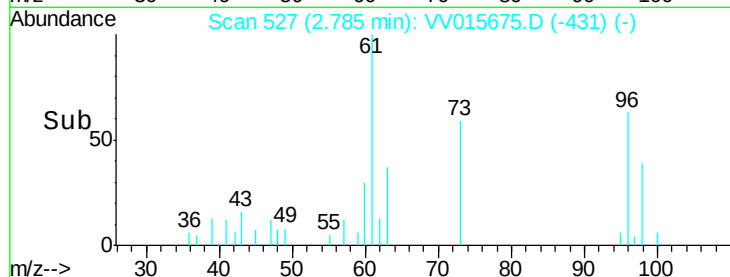
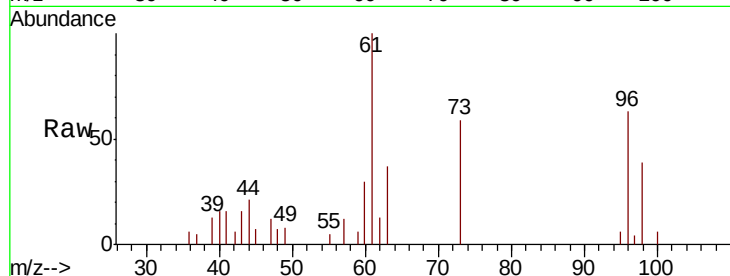
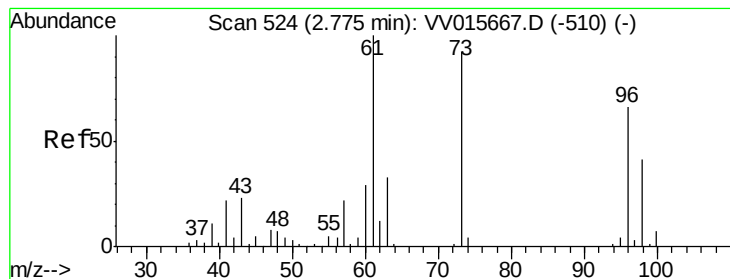
1000

500

0

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.365 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.01 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

Instrument :

MSVOA_V

ClientSampleId :

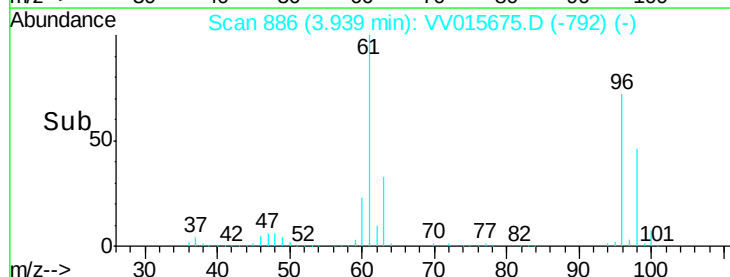
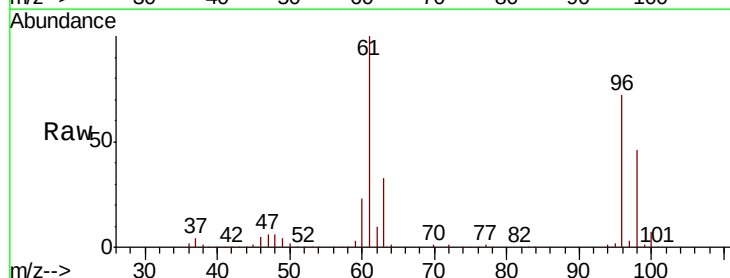
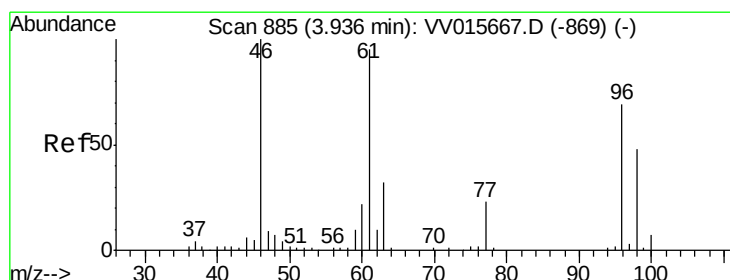
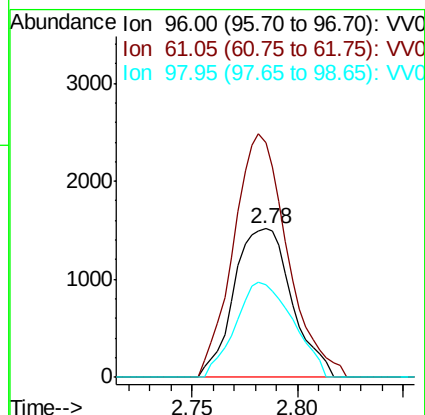
Tot Ion: 96 Resp: 2888

Ion Ratio Lower Upper

96 100

61 158.3 105.5 195.9

98 62.4 44.2 82.0



#22

cis-1,2-Dichloroethene

Concen: 65.700 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

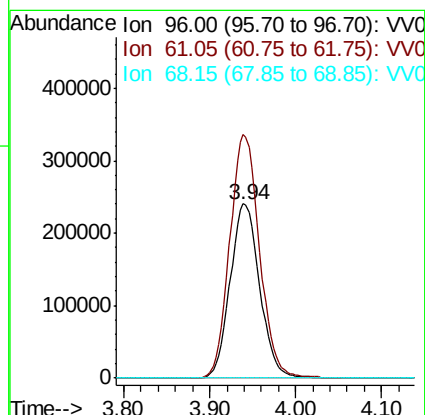
Tgt Ion: 96 Resp: 574233

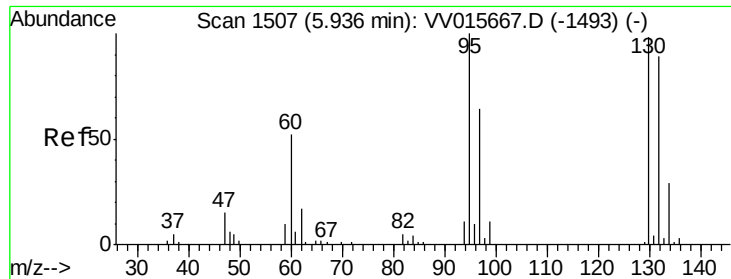
Ion Ratio Lower Upper

96 100

61 139.6 96.4 179.0

68 0.0 0.0 0.0





#34

Trichloroethene

Concen: 2.040 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 18761

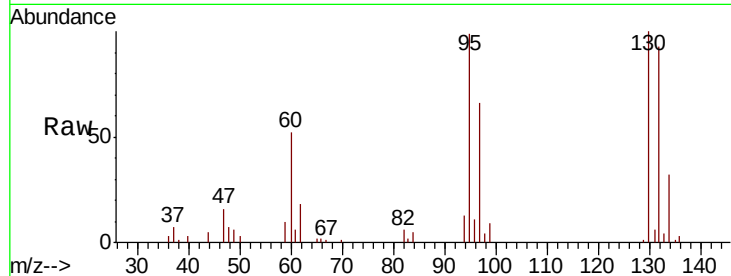
Ion Ratio Lower Upper

95 100

97 66.4 44.7 82.9

132 94.1 65.2 121.0

130 101.2 65.0 120.6

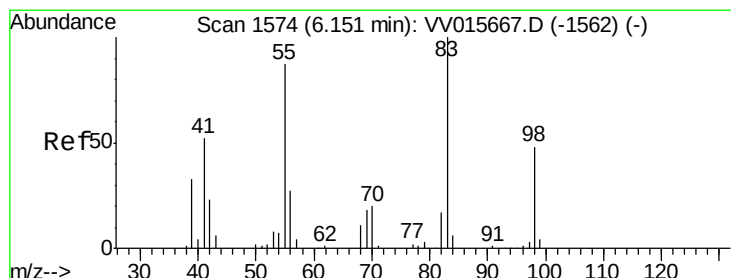
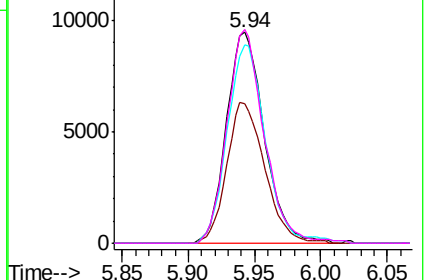
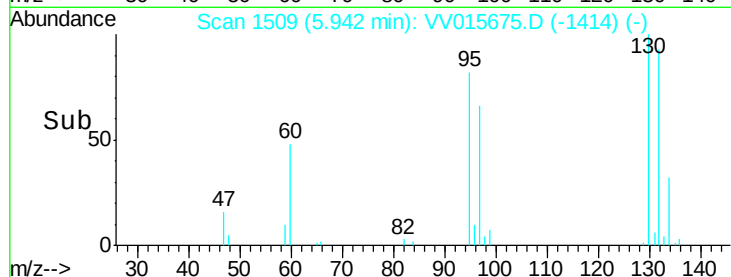


Abundance Ion 95.00 (94.70 to 95.70): VV015667.D (-1493) (-)

Ion 96.95 (96.65 to 97.65): VV015667.D (-1493) (-)

Ion 131.95 (131.65 to 132.65): VV015667.D (-1493) (-)

Ion 129.95 (129.65 to 130.65): VV015667.D (-1493) (-)



#35

Methylcyclohexane

Concen: 0.767 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.05 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

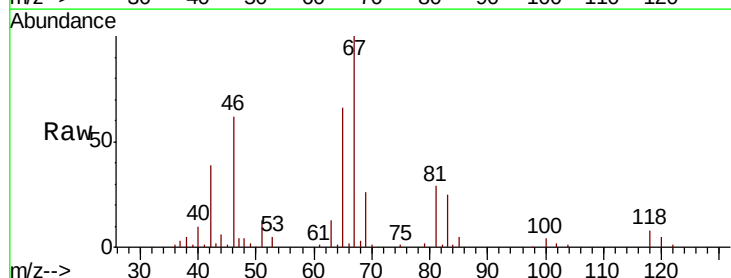
Tgt Ion: 83 Resp: 10829

Ion Ratio Lower Upper

83 100

55 0.4 66.6 99.8#

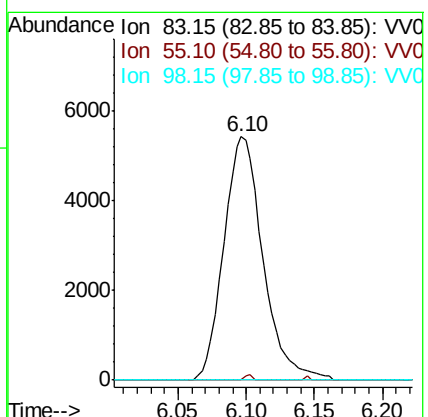
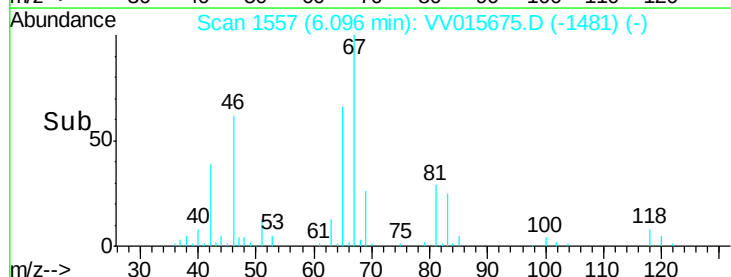
98 0.7 39.5 59.3#

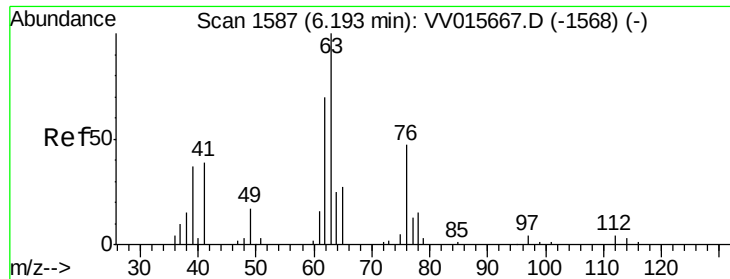


Abundance Ion 83.15 (82.85 to 83.85): VV015667.D (-1562) (-)

Ion 55.10 (54.80 to 55.80): VV015667.D (-1562) (-)

Ion 98.15 (97.85 to 98.85): VV015667.D (-1562) (-)

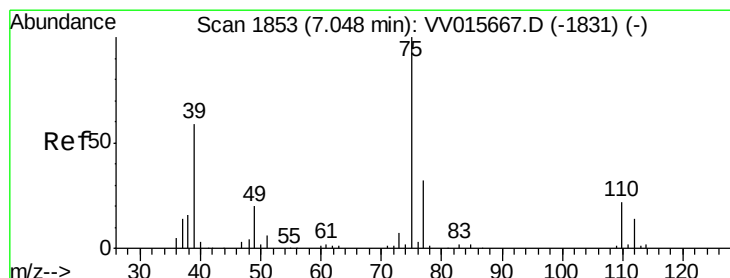
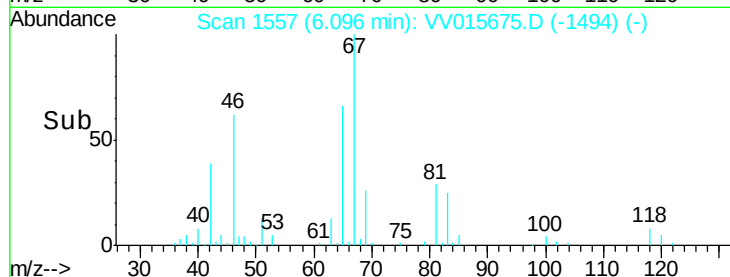
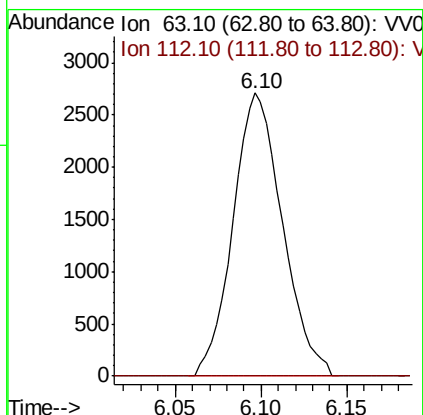
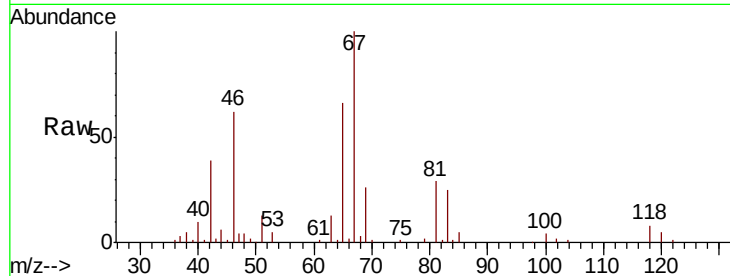




#37
 1,2-Dichloropropane
 Concen: 0.641 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV015675.D
 Acq: 24 Apr 2020 15:43

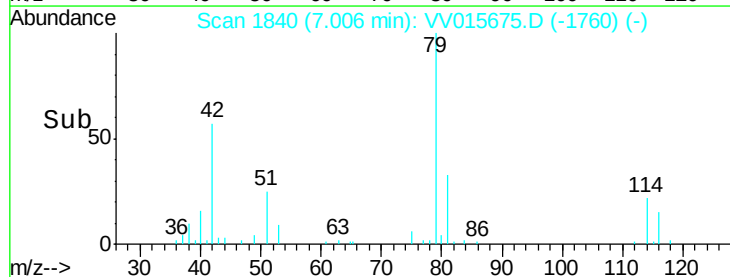
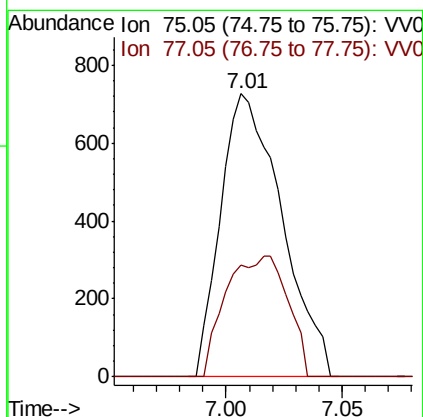
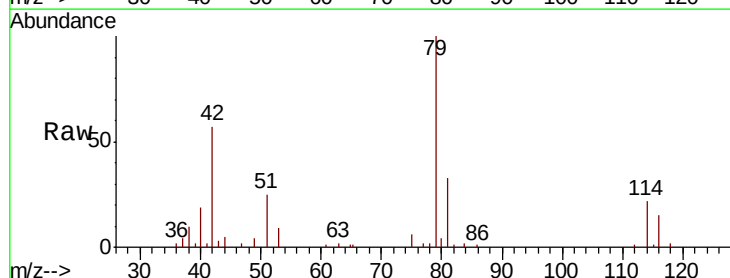
Instrument :
 MSVOA_V
 ClientSampleId :

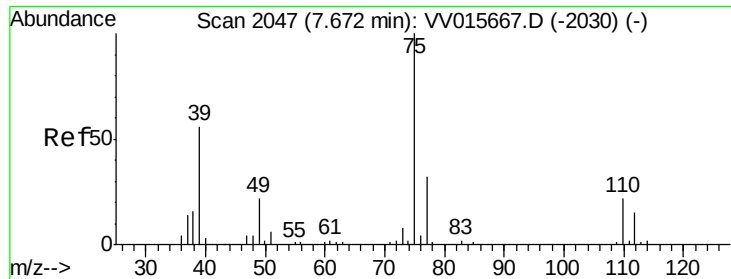
Tot Ion: 63 Resp: 5427
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.113 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV015675.D
 Acq: 24 Apr 2020 15:43

Tgt Ion: 75 Resp: 1331
 Ion Ratio Lower Upper
 75 100
 77 39.5 22.3 41.5





#44

trans-1,3-Dichloropropene

Concen: 0.079 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

Instrument :

MSVOA_V

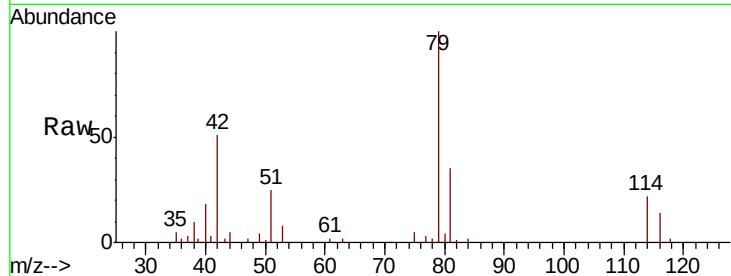
ClientSampleId :

Tot Ion: 75 Resp: 783

Ion Ratio Lower Upper

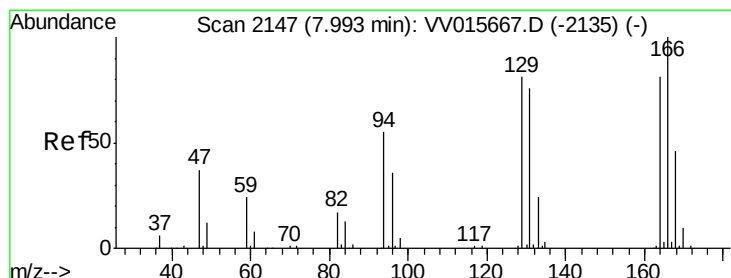
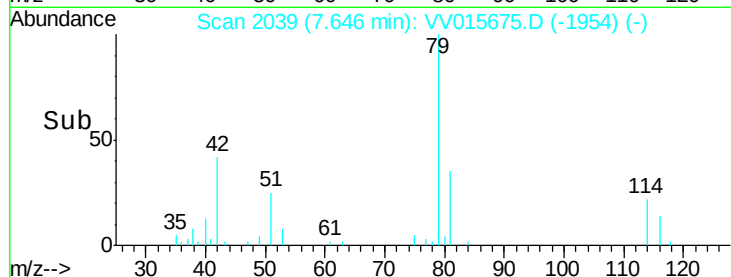
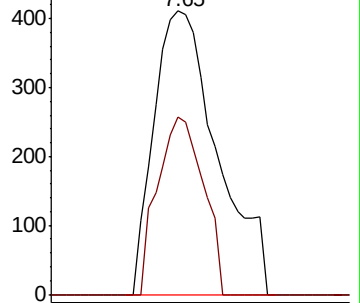
75 100

77 62.8 21.8 40.6#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#47

Tetrachloroethene

Concen: 2.222 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV015675.D

Acq: 24 Apr 2020 15:43

Tgt Ion:164 Resp: 14712

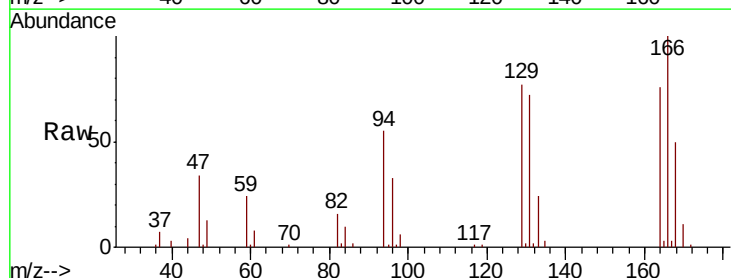
Ion Ratio Lower Upper

164 100

129 101.8 66.7 123.9

131 94.7 66.6 123.6

166 132.4 85.3 158.5

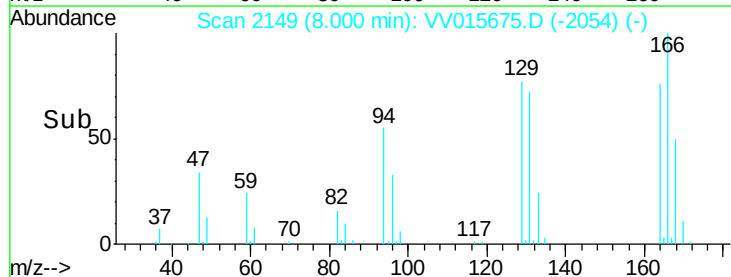
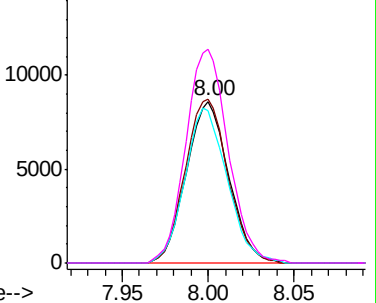


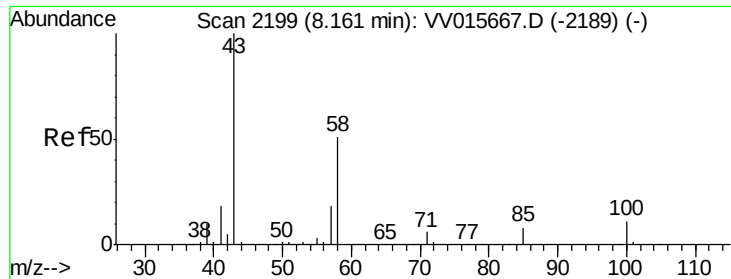
Abundance Ion 163.90 (163.60 to 164.60): V

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

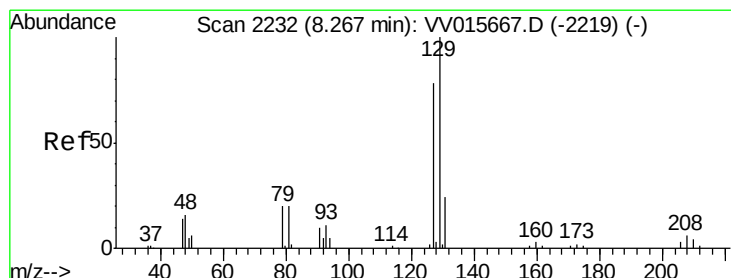
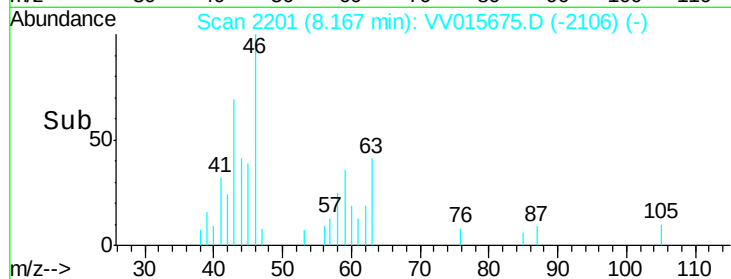
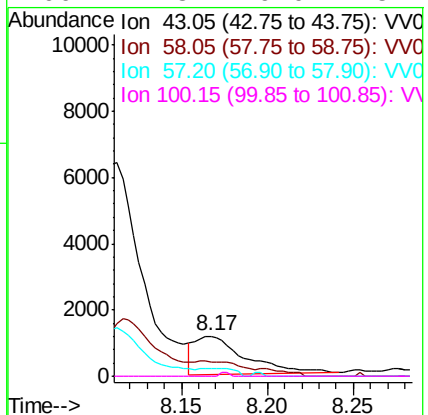
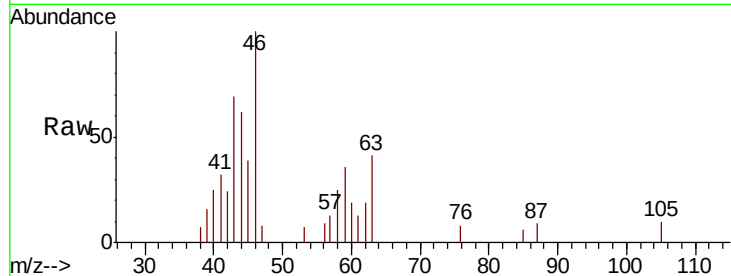




#48
2-Hexanone
Concen: 0.598 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV015675.D
Acq: 24 Apr 2020 15:43

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 2341
Ion Ratio Lower Upper
43 100
58 0.0 41.1 61.7#
57 12.4 15.0 22.4#
100 1.8 9.0 13.4#



#49
Dibromochloromethane
Concen: 2.499 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. -0.27 min
Lab File: VV015675.D
Acq: 24 Apr 2020 15:43

Tgt Ion: 129 Resp: 14919
Ion Ratio Lower Upper
129 100
127 0.0 52.6 97.8#

