

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050820\
 Data File : VV015976.D
 Acq On : 08 May 2020 19:26
 Operator : SY/MD
 Sample : L2520-19
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 09 00:51:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 09 00:44:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	138386	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	138419	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	65120	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	31576	4.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.20%
7) Chloroethane-d5	1.58	69	32800	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.12	63	52886	3.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.60%
20) 2-Butanone-d5	3.92	46	106231	49.60	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.20%
24) Chloroform-d	4.38	84	75699	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
26) 1,2-Dichloroethane-d4	5.06	65	46900	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.08	84	155262	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.10	67	49968	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.34	98	135648	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
45) trans-1,3-Dichloropropene-	7.65	79	15887	4.03	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.60%
48) 2-Hexanone-d5	8.11	63	75818	43.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.48%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	34439	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	52827	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	755	0.070	ug/L #	79
8) Chloroethane	1.44	64	36699	5.017	ug/L #	53
13) Acetone	2.20	43	2429	1.719	ug/L	69
17) Methyl tert-butyl Ether	2.79	73	3302	0.167	ug/L	99
25) Chloroform	4.40	83	10498	0.588	ug/L	94
31) Carbon tetrachloride	4.86	117	1662	0.126	ug/L	99
34) Trichloroethene	5.94	95	3027	0.305	ug/L	88
35) Methylcyclohexane	6.10	83	11946	0.795	ug/L #	17
37) 1,2-Dichloropropane	6.10	63	6105	0.690	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	1321	0.106	ug/L #	68
46) trans-1,3-Dichloropropene	7.65	75	801	0.076	ug/L #	63
47) 1,1,2-Trichloroethane	8.00	97	795	0.135	ug/L #	1
49) Tetrachloroethene	8.00	164	81044	11.685	ug/L	98
50) 2-Hexanone	8.16	43	3932	1.008	ug/L #	84
51) Dibromochloromethane	8.00	129	78266	11.789	ug/L #	9

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QLast Update : Sat May 09 00:44:25 2020
Response via : Initial Calibration

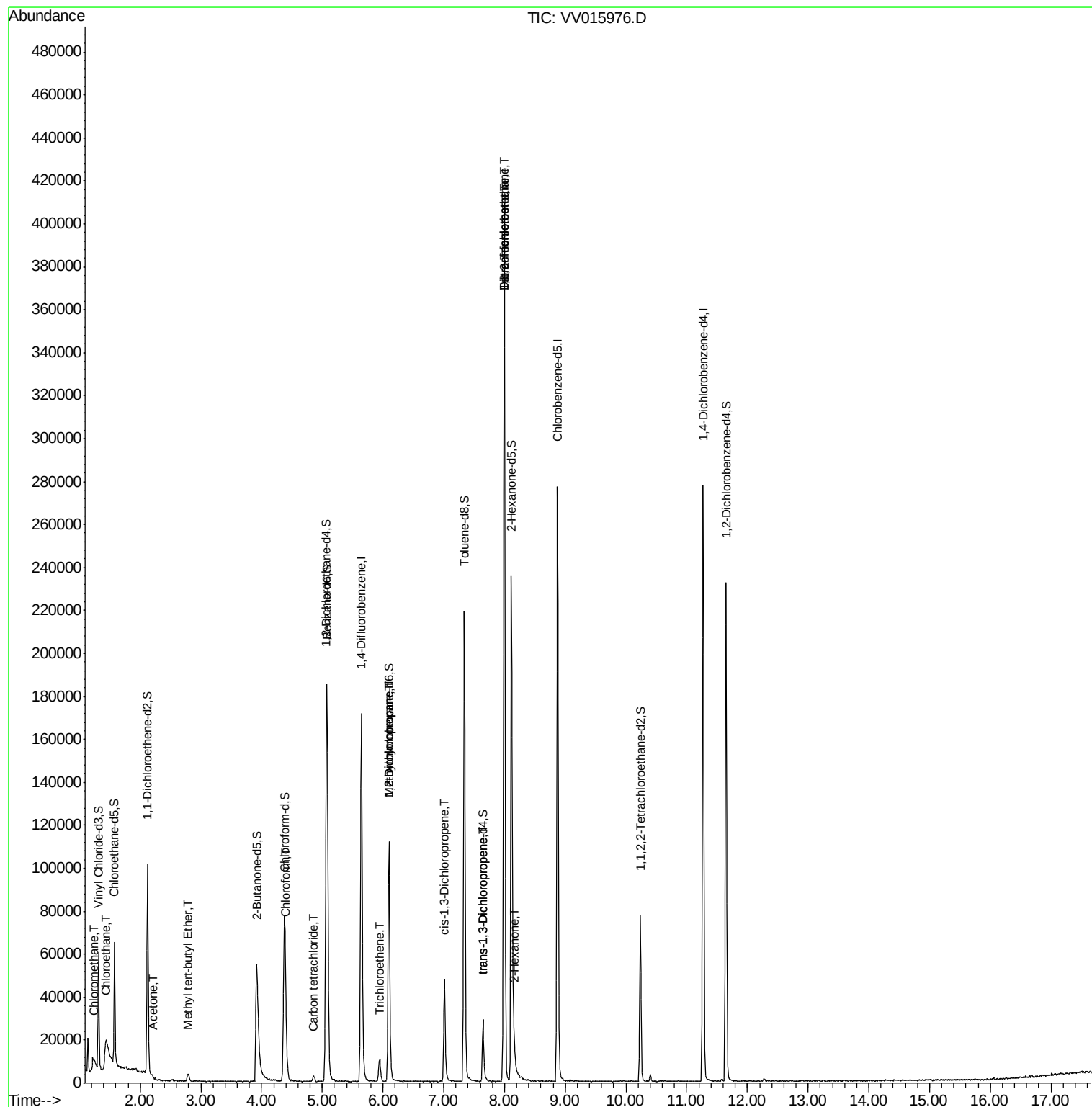
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

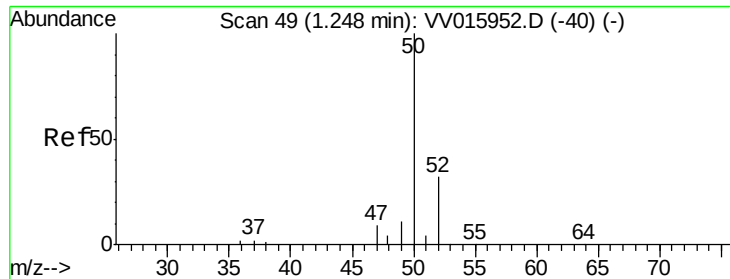
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.070 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

Instrument :

MSVOA_V

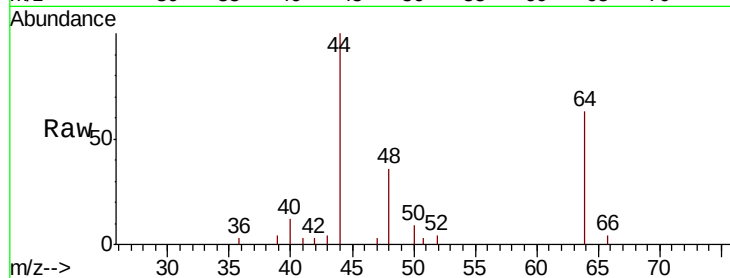
ClientSampled :

Tot Ion: 50 Resp: 755

Ion Ratio Lower Upper

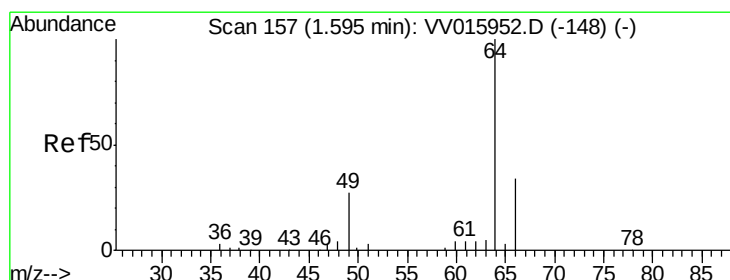
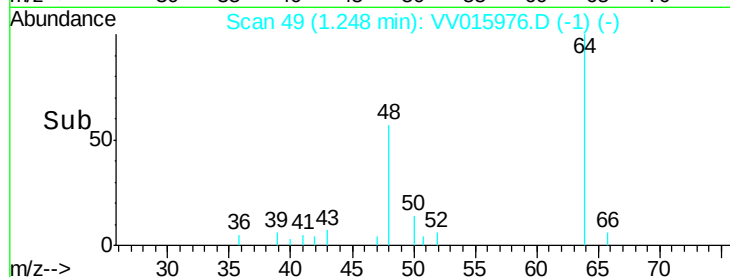
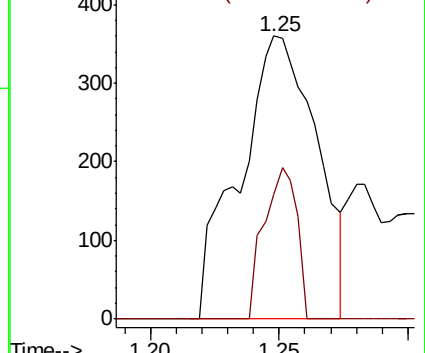
50 100

52 44.2 22.8 42.4#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#8

Chloroethane

Concen: 5.017 ug/L

RT: 1.44 min Scan# 109

Delta R.T. -0.15 min

Lab File: VV015976.D

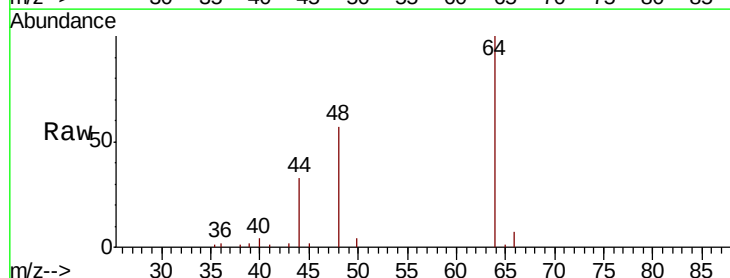
Acq: 08 May 2020 19:26

Tgt Ion: 64 Resp: 36699

Ion Ratio Lower Upper

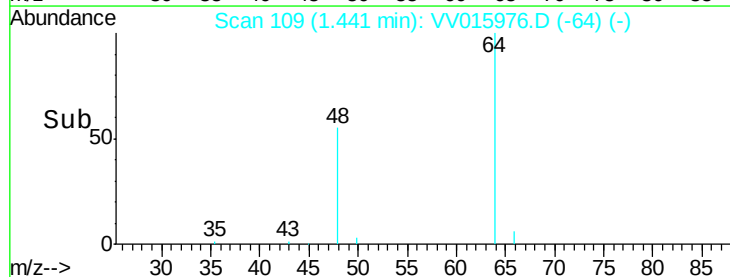
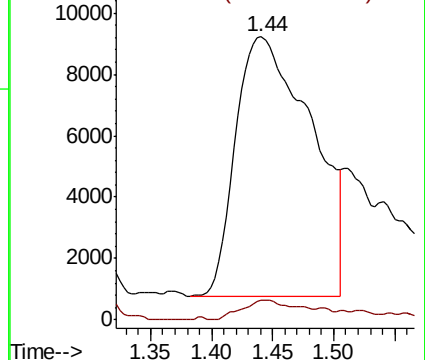
64 100

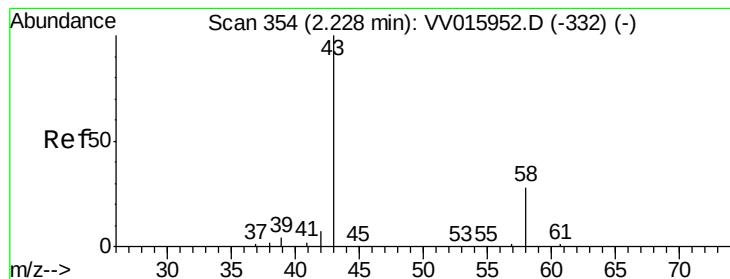
66 6.9 23.6 43.8#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#13

Acetone

Concen: 1.719 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.03 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

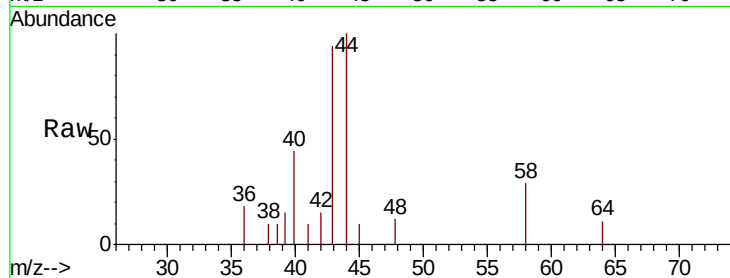
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 2429

Ion Ratio Lower Upper

43 100

58 28.3 0.0 30.8



Abundance Ion 43.05 (42.75 to 43.75): VV015976.D (-261) (-)

Ion 58.05 (57.75 to 58.75): VV015976.D (-261) (-)

2.20

1000

800

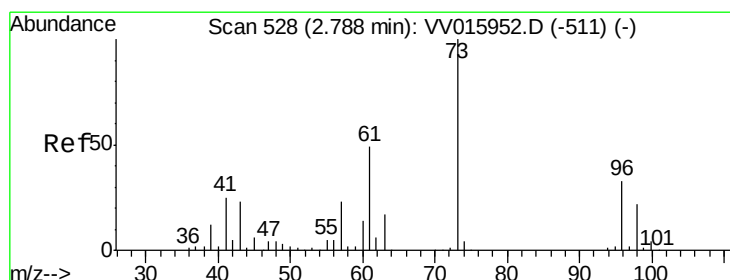
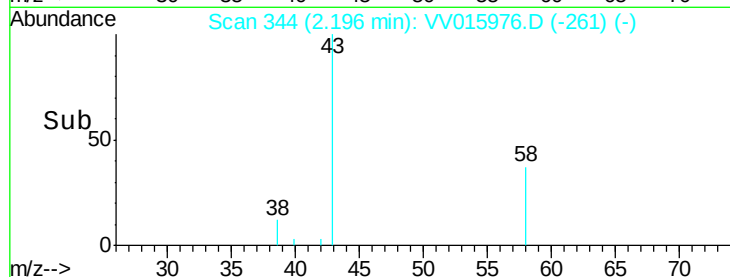
600

400

200

0

Time--> 2.10 2.15 2.20 2.25



#17

Methyl tert-butyl Ether

Concen: 0.167 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

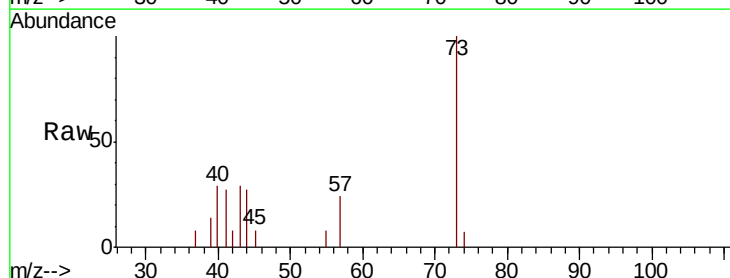
Tgt Ion: 73 Resp: 3302

Ion Ratio Lower Upper

73 100

43 23.8 18.8 28.2

57 22.9 17.8 26.6



Abundance Ion 73.10 (72.80 to 73.80): VV015976.D (-435) (-)

Ion 43.05 (42.75 to 43.75): VV015976.D (-435) (-)

Ion 57.10 (56.80 to 57.80): VV015976.D (-435) (-)

2.79

2000

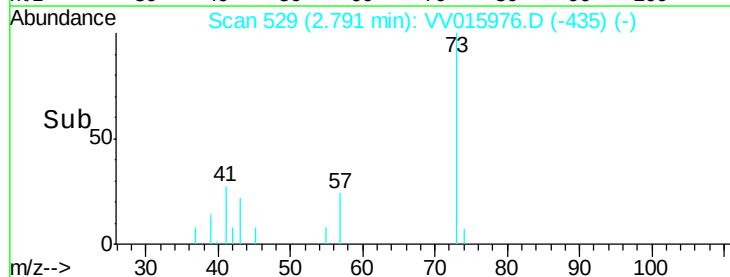
1500

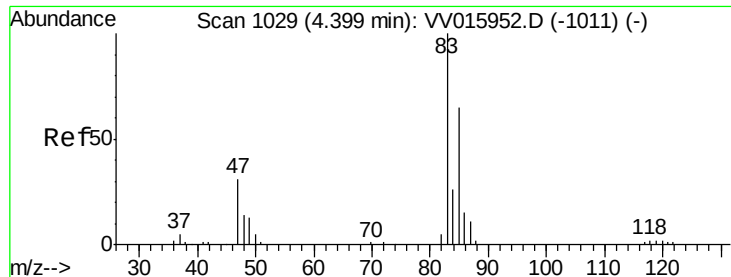
1000

500

0

Time--> 2.75 2.80 2.85

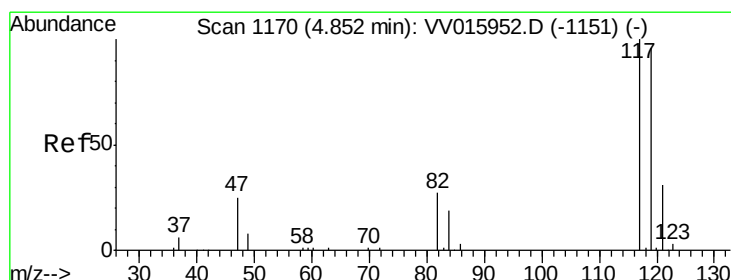
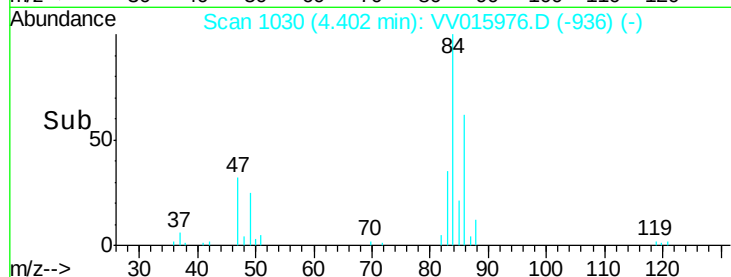
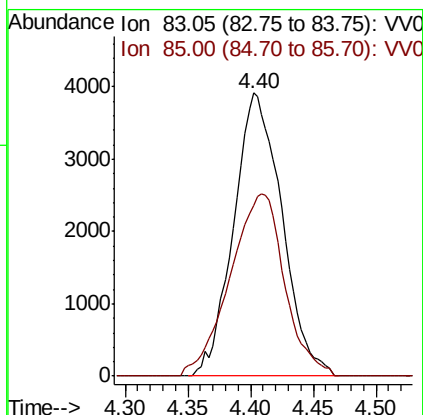
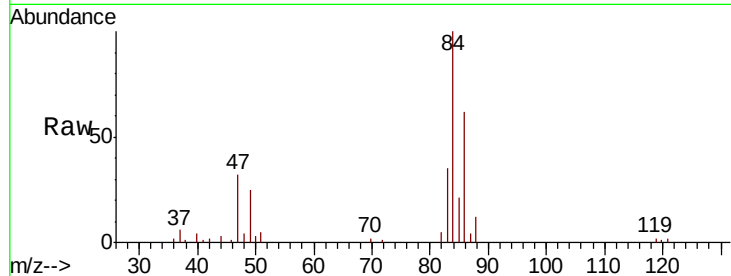




#25
Chloroform
Concen: 0.588 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV015976.D
Acq: 08 May 2020 19:26

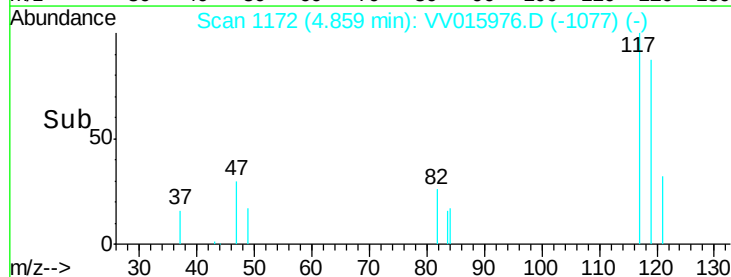
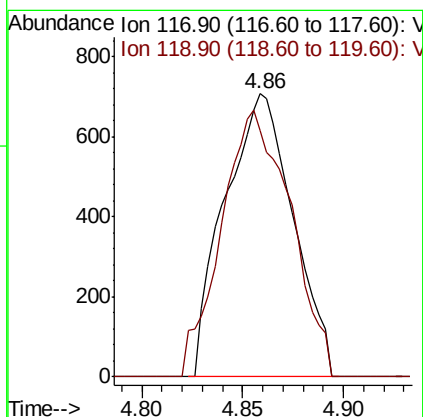
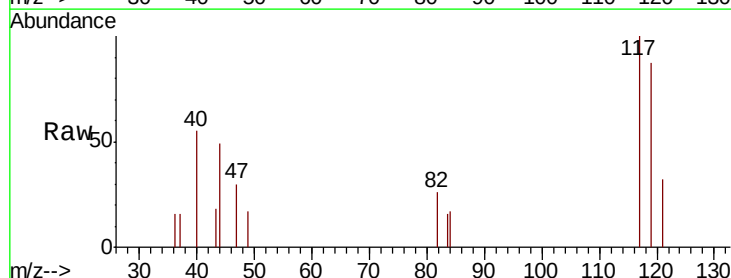
Instrument :
MSVOA_V
ClientSampleId :

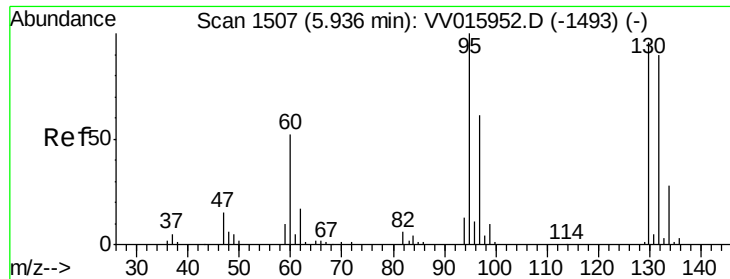
Tot Ion: 83 Resp: 10498
Ion Ratio Lower Upper
83 100
85 60.5 45.7 84.9



#31
Carbon tetrachloride
Concen: 0.126 ug/L
RT: 4.86 min Scan# 1172
Delta R.T. 0.01 min
Lab File: VV015976.D
Acq: 08 May 2020 19:26

Tgt Ion: 117 Resp: 1662
Ion Ratio Lower Upper
117 100
119 95.9 77.3 115.9





#34

Trichloroethene

Concen: 0.305 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 3027

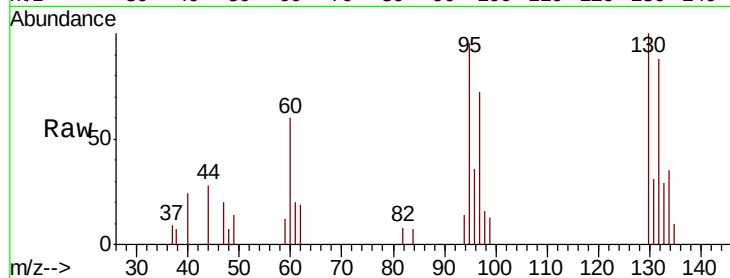
Ion Ratio Lower Upper

95 100

97 76.3 43.3 80.5

132 93.2 60.3 112.1

130 105.7 66.0 122.6

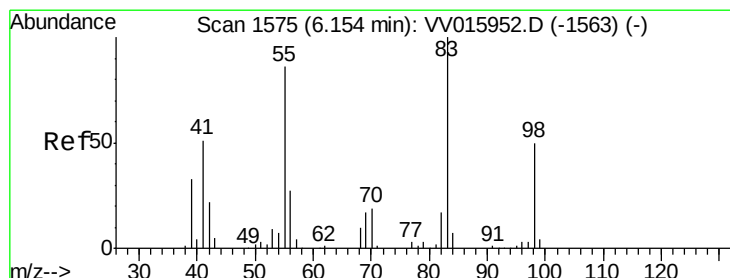
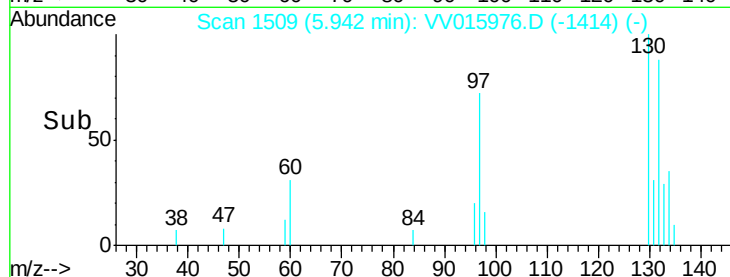
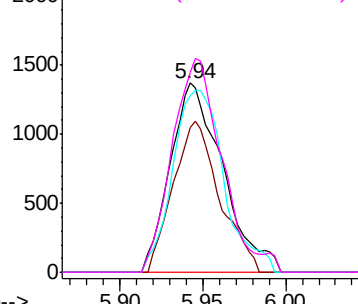


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 0.795 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.06 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

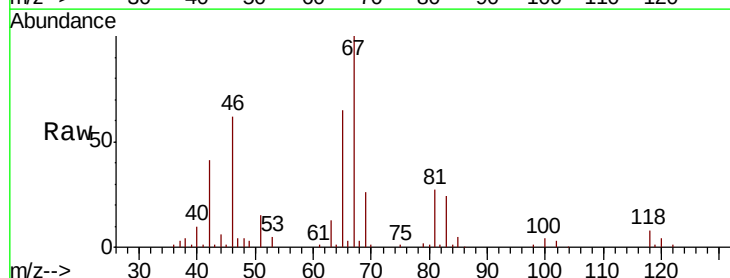
Tgt Ion: 83 Resp: 11946

Ion Ratio Lower Upper

83 100

55 0.7 66.2 99.2#

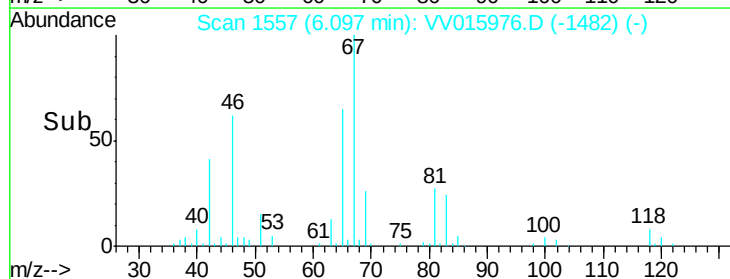
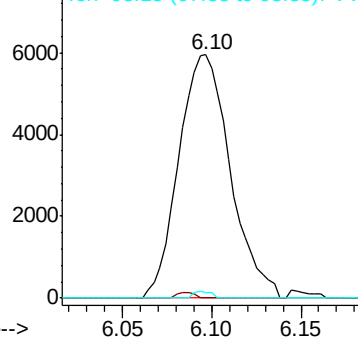
98 1.0 37.9 56.9#

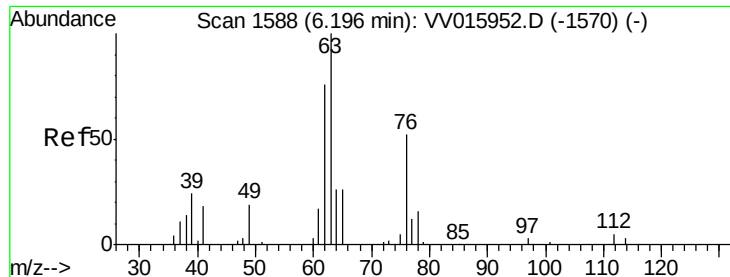


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

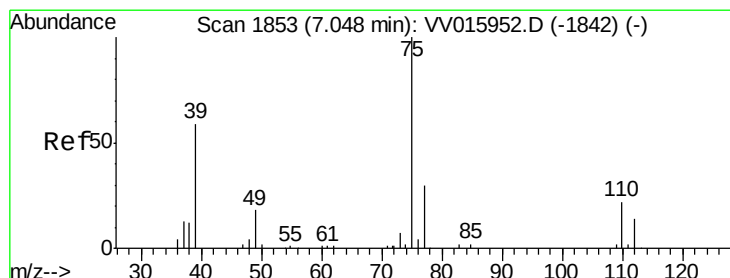
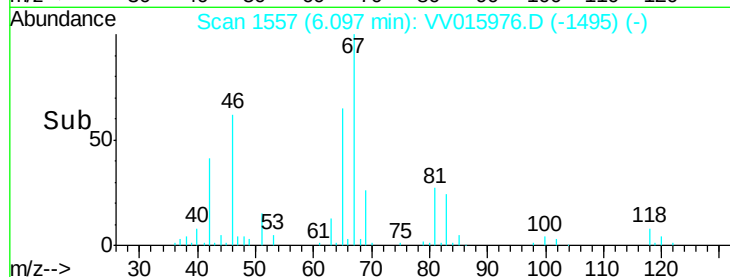
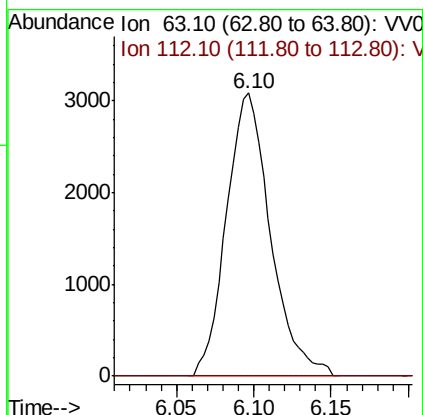
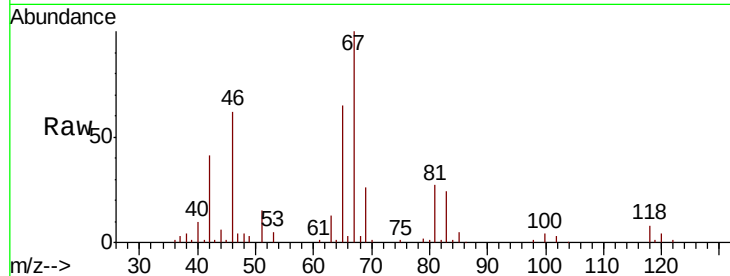




#37
 1,2-Dichloropropane
 Concen: 0.690 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV015976.D
 Acq: 08 May 2020 19:26

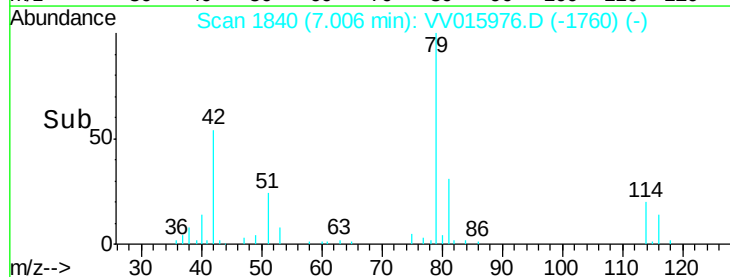
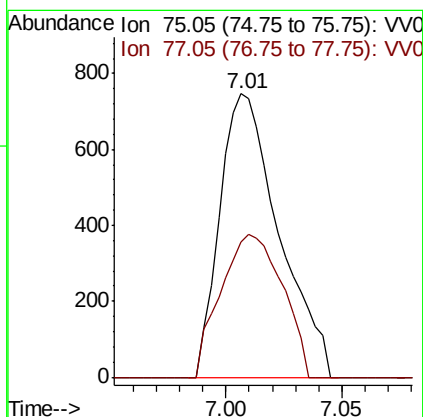
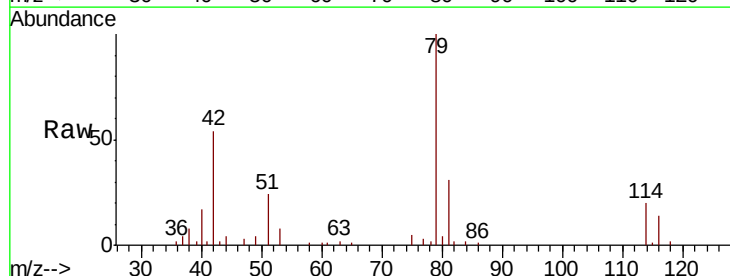
Instrument :
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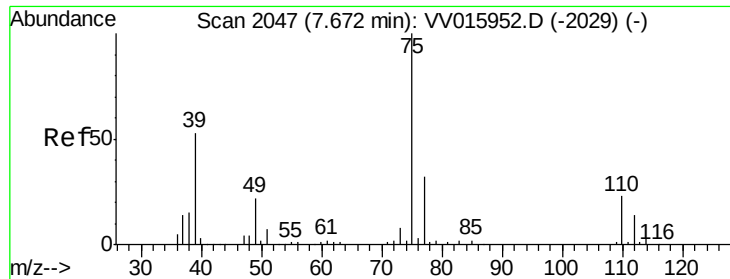
Tot Ion: 63 Resp: 6105
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#39
 cis-1,3-Dichloropropene
 Concen: 0.106 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV015976.D
 Acq: 08 May 2020 19:26

Tgt Ion: 75 Resp: 1321
 Ion Ratio Lower Upper
 75 100
 77 47.8 21.3 39.5#





#46

trans-1,3-Dichloropropene

Concen: 0.076 ug/L

RT: 7.65 min Scan# 2040

Delta R.T. -0.02 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

Instrument :

MSVOA_V

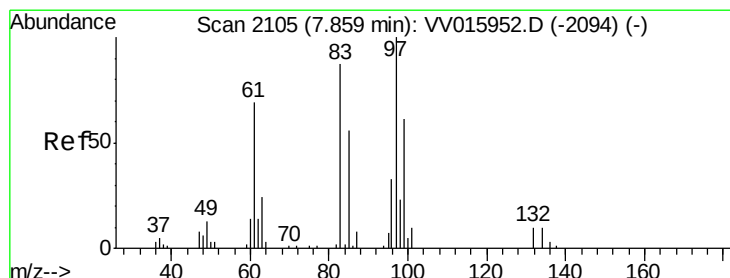
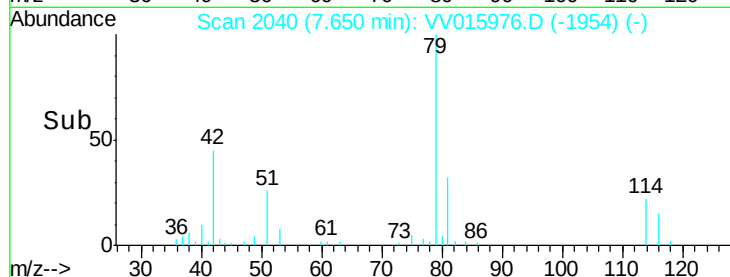
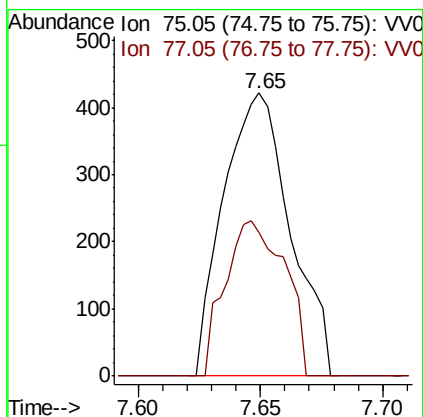
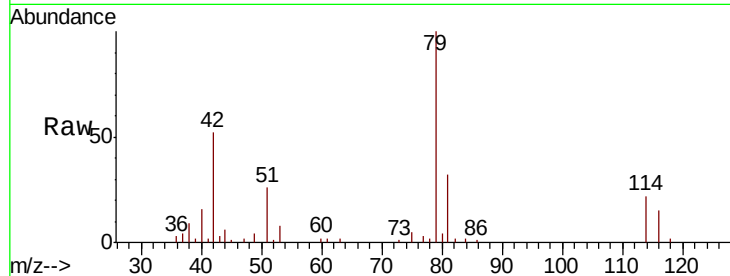
ClientSampleId :

Tot Ion: 75 Resp: 801

Ion Ratio Lower Upper

75 100

77 50.9 21.3 39.6#



#47

1,1,2-Trichloroethane

Concen: 0.135 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.14 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

Tgt Ion: 97 Resp: 795

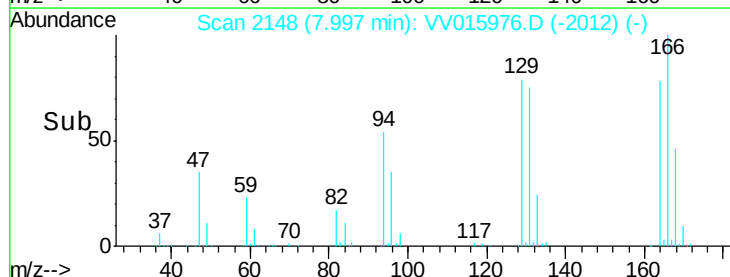
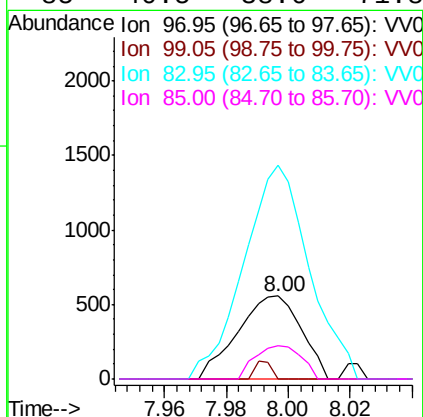
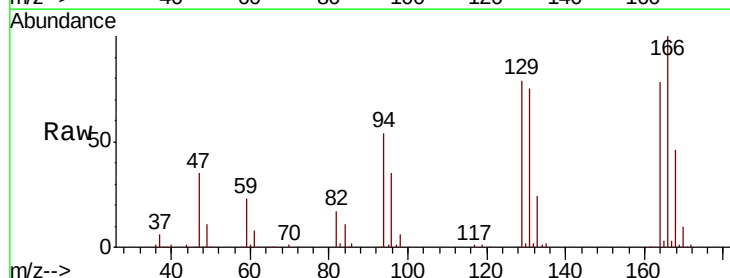
Ion Ratio Lower Upper

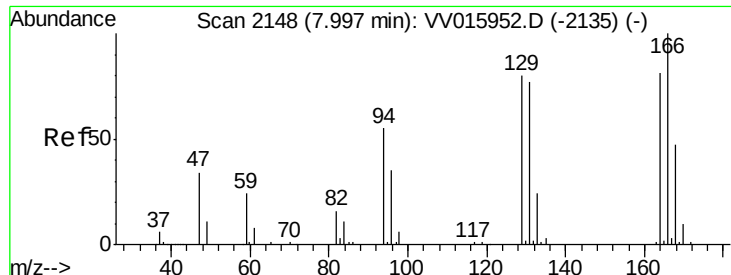
97 100

99 0.0 42.1 78.1#

83 258.2 59.2 110.0#

85 40.5 38.6 71.8





#49

Tetrachloroethene

Concen: 11.685 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 81044

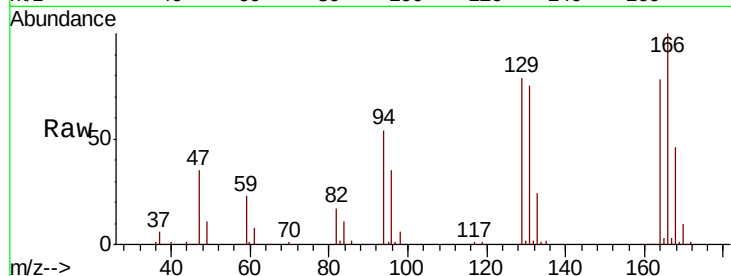
Ion Ratio Lower Upper

164 100

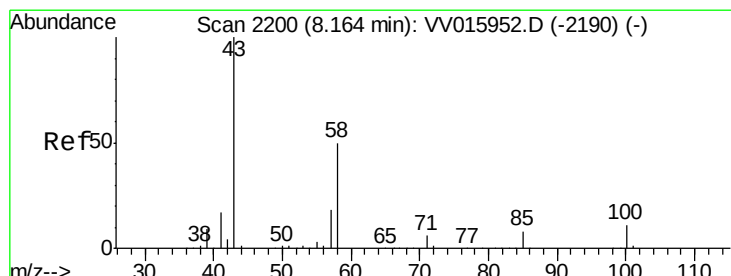
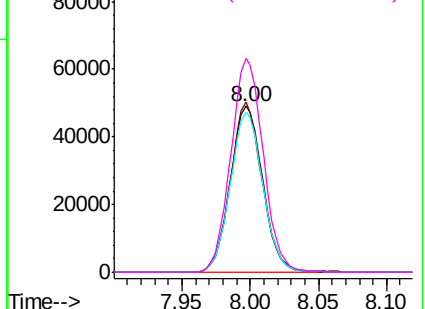
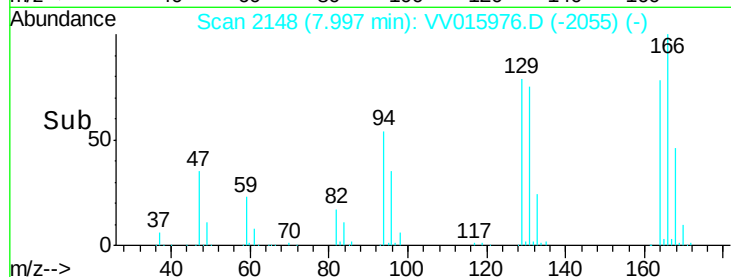
129 102.2 69.7 129.4

131 96.4 66.8 124.2

166 128.6 89.1 165.5



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



#50

2-Hexanone

Concen: 1.008 ug/L

RT: 8.16 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VV015976.D

Acq: 08 May 2020 19:26

Tgt Ion: 43 Resp: 3932

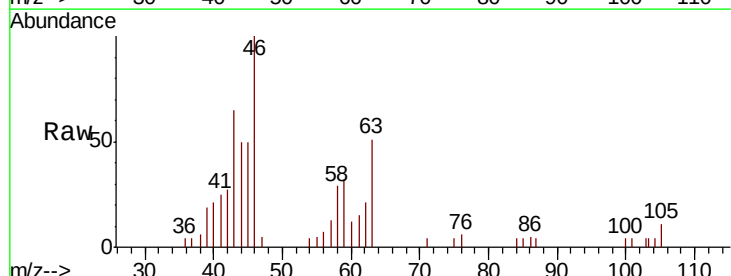
Ion Ratio Lower Upper

43 100

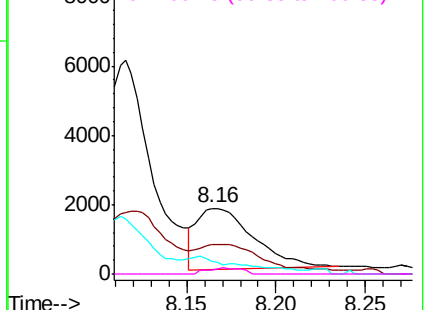
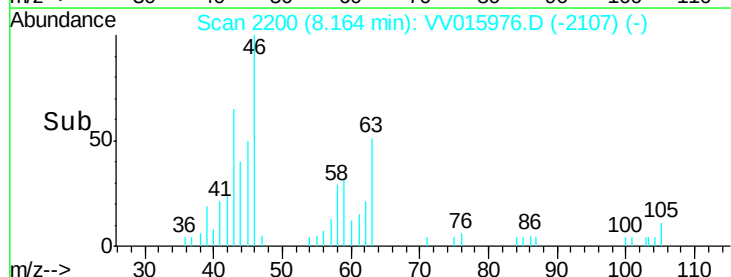
58 40.8 40.8 61.2#

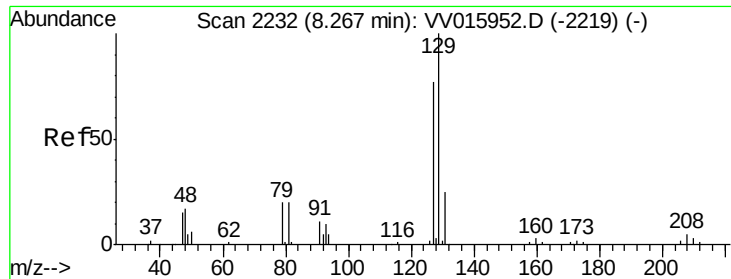
57 27.7 14.7 22.1#

100 5.8 9.0 13.6#



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





#51
 Dibromochloromethane
 Concen: 11.789 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.27 min
 Lab File: VV015976.D
 Acq: 08 May 2020 19:26

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:129 Resp: 78266
 Ion Ratio Lower Upper
 129 100
 127 0.0 56.0 104.0#

