

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051320\
 Data File : VV016041.D
 Acq On : 13 May 2020 15:22
 Operator : SY/MD
 Sample : L2542-19MSD
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 14 02:29:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 14 02:25:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	156680	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	155760	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	68810	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	48880	5.75	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	115.00%
7) Chloroethane-d5	1.58	69	44914	5.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	111.60%
11) 1,1-Dichloroethene-d2	2.13	63	96115	5.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.20%
20) 2-Butanone-d5	3.94	46	124766	51.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.92%
24) Chloroform-d	4.38	84	94518	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.80%
26) 1,2-Dichloroethane-d4	5.06	65	54176	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.08	84	188273	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
36) 1,2-Dichloropropane-d6	6.10	67	58601	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.34	98	167576	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
45) trans-1,3-Dichloropropene-	7.65	79	18237	4.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.20%
48) 2-Hexanone-d5	8.12	63	93518	47.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.90%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	40765	5.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	59654	5.34	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1632	0.181	ug/L #	70
12) 1,1-Dichloroethene	2.14	96	44922	5.210	ug/L	91
13) Acetone	2.46	43	2469	1.544	ug/L	84
15) Methyl Acetate	2.46	43	2469	0.668	ug/L #	51
17) Methyl tert-butyl Ether	2.79	73	6581	0.294	ug/L	95
22) cis-1,2-Dichloroethene	3.95	96	3432	0.344	ug/L	98
25) Chloroform	4.41	83	6408	0.317	ug/L	99
27) 1,2-Dichloroethane	5.13	62	1719	0.138	ug/L #	76
33) Benzene	5.13	78	220517	5.627	ug/L	100
34) Trichloroethene	5.94	95	69541	6.217	ug/L	95
35) Methylcyclohexane	6.10	83	14402	0.851	ug/L #	16
37) 1,2-Dichloropropane	6.10	63	7052	0.708	ug/L #	87
42) Toluene	7.41	91	232975	5.609	ug/L	99
46) trans-1,3-Dichloropropene	7.65	75	912	0.077	ug/L	92
49) Tetrachloroethene	8.00	164	90176	11.554	ug/L	99
50) 2-Hexanone	8.12	43	14112	3.216	ug/L #	85
51) Dibromochloromethane	8.00	129	88195	11.805	ug/L #	9

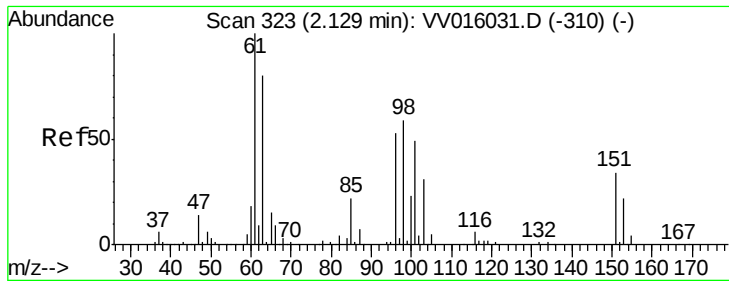
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051320\
Data File : VV016041.D
Acq On : 13 May 2020 15:22
Operator : SY/MD
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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 14 02:25:38 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Chlorobenzene	8.90	112	151686	5.678	ug/L	96

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



#10

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

Concen: 0.181 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

Instrument :

MSVOA_V

ClientSampled :

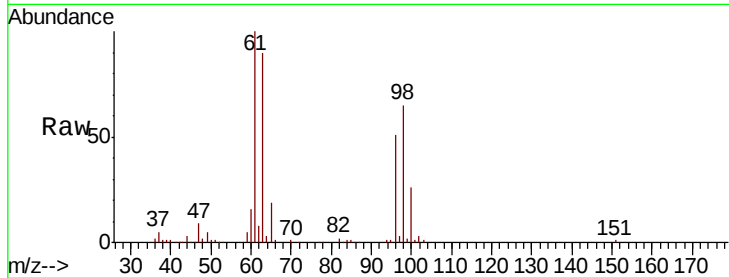
Tot Ion:101 Resp: 1632

Ion Ratio Lower Upper

101 100

85 27.0 35.7 53.5#

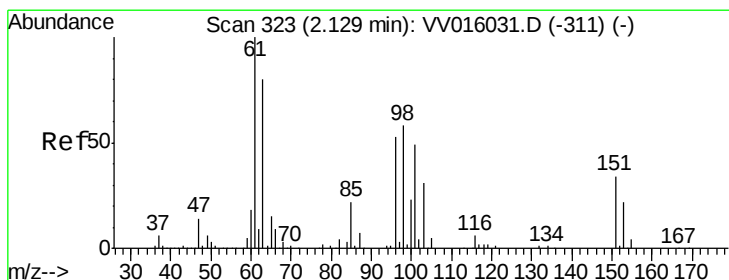
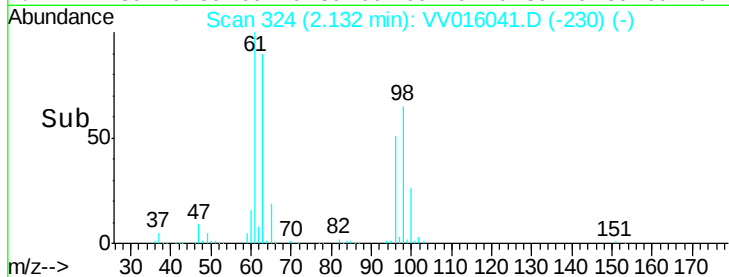
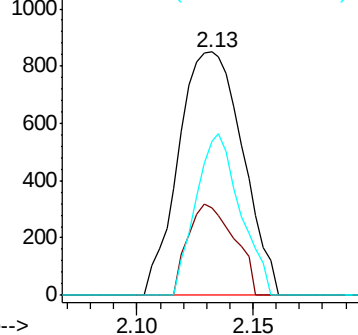
151 45.9 58.0 87.0#



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



#12

1,1-Dichloroethene

Concen: 5.210 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

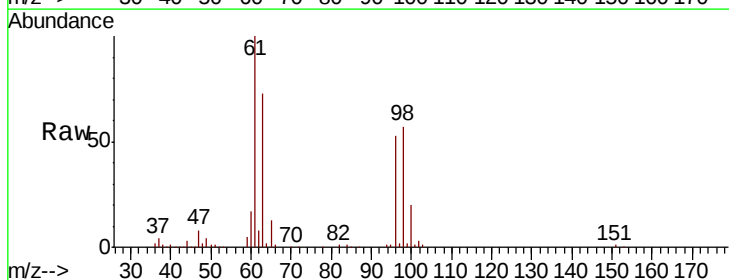
Tgt Ion: 96 Resp: 44922

Ion Ratio Lower Upper

96 100

61 188.2 139.9 259.7

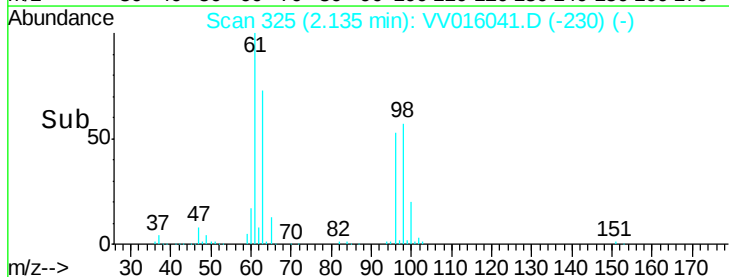
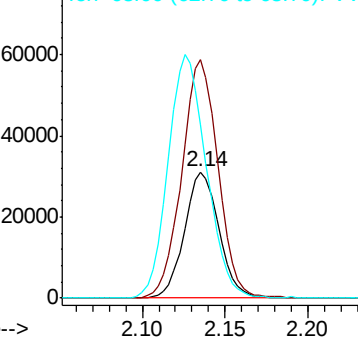
63 137.1 106.4 197.6

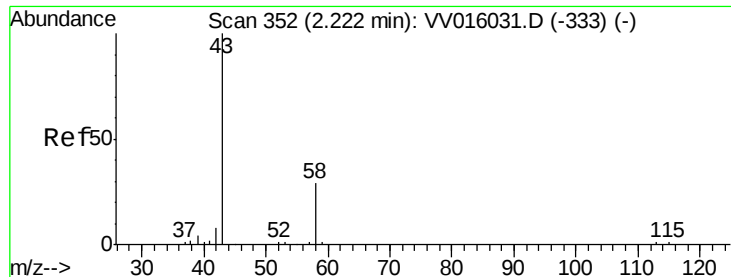


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1.544 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.24 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

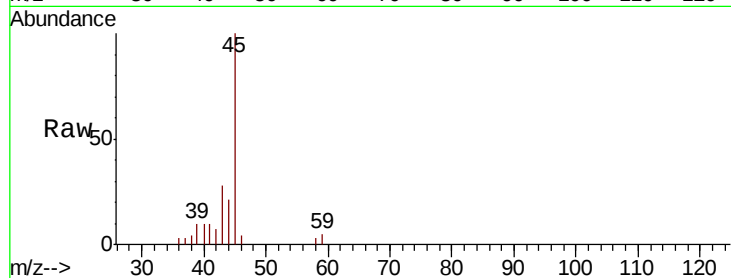
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 2469

Ion Ratio Lower Upper

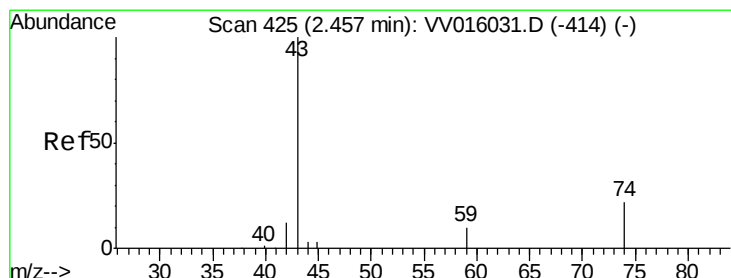
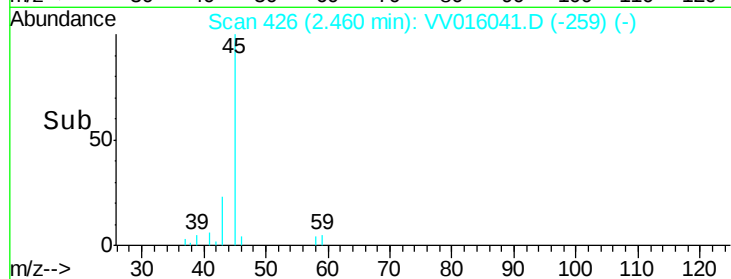
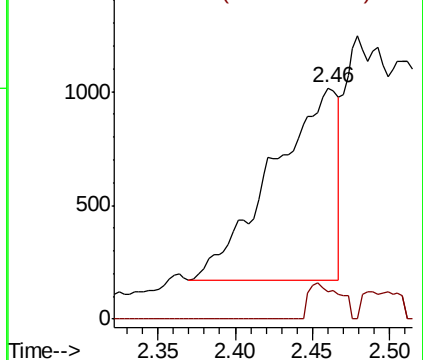
43 100

58 8.8 0.0 30.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#15

Methyl Acetate

Concen: 0.668 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV016041.D

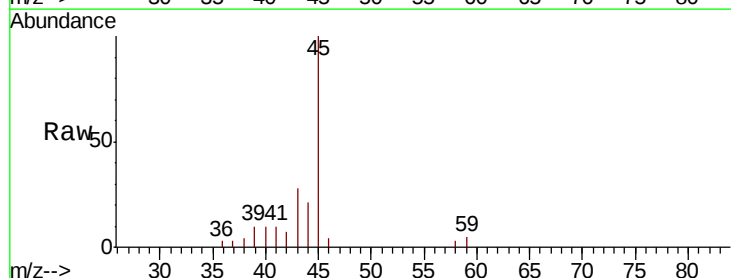
Acq: 13 May 2020 15:22

Tgt Ion: 43 Resp: 2469

Ion Ratio Lower Upper

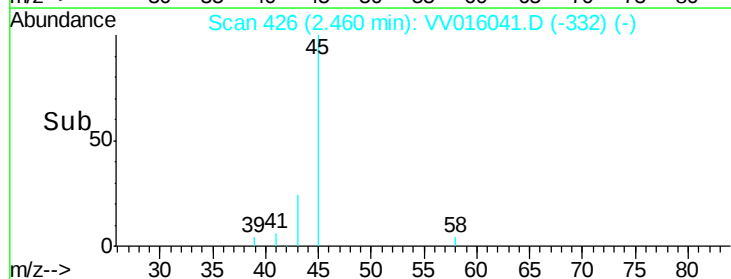
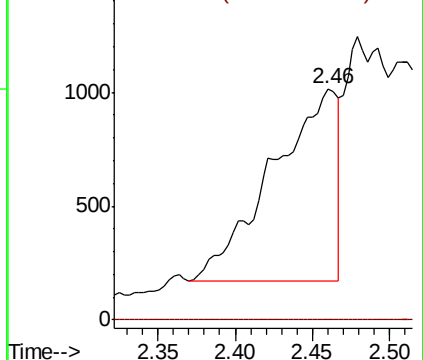
43 100

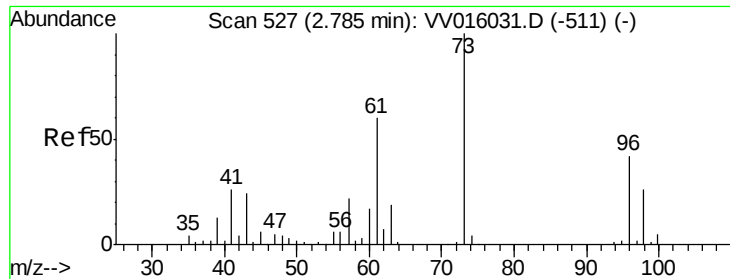
74 0.0 19.2 28.8#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

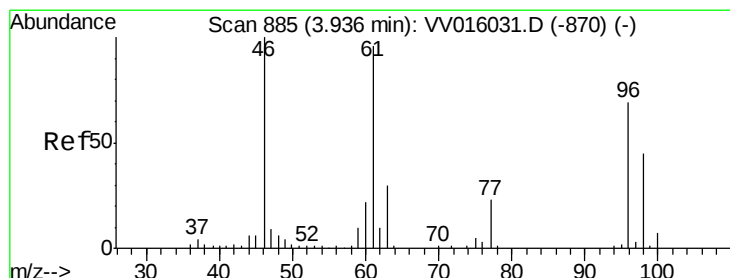
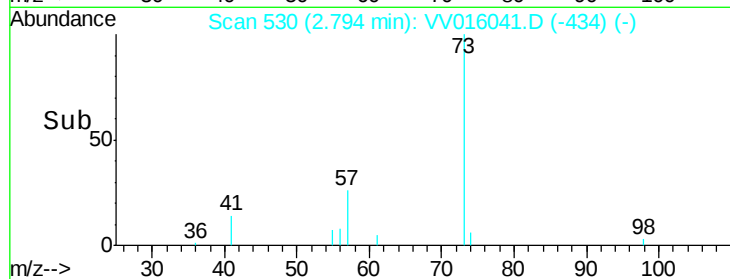
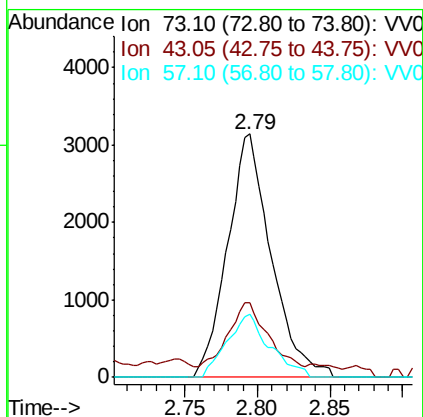
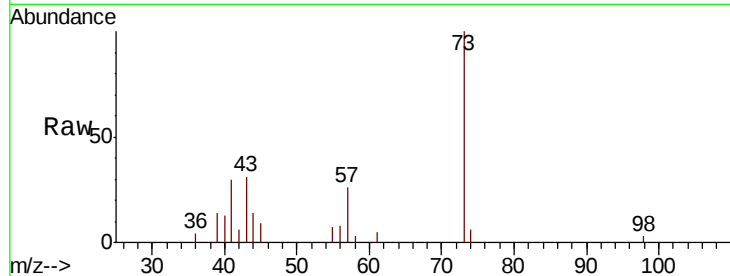




#17
Methvl tert-butvl Ether
Concen: 0.294 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV016041.D
Acq: 13 May 2020 15:22

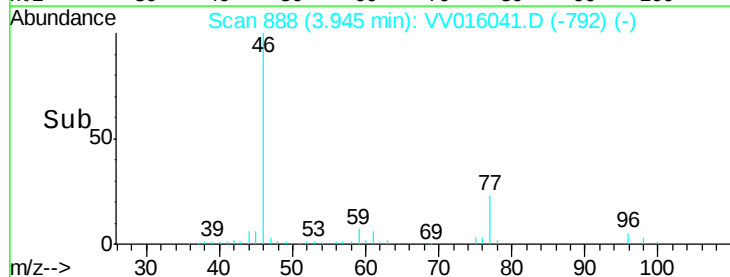
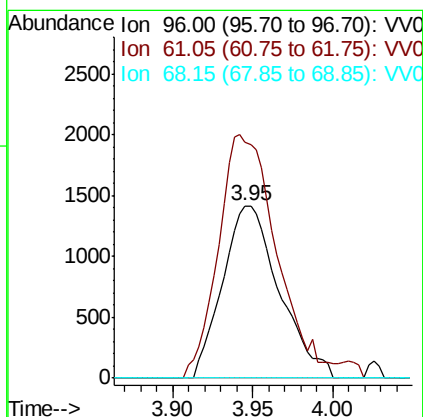
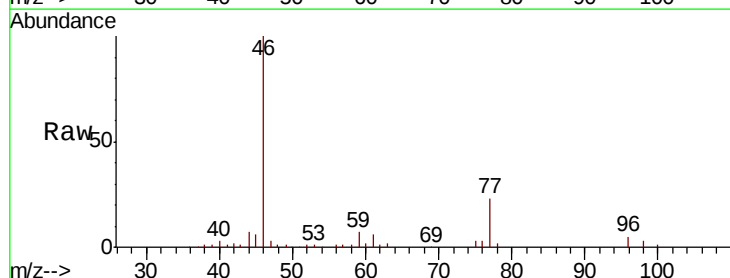
Instrument :
MSVOA_V
ClientSampleId :

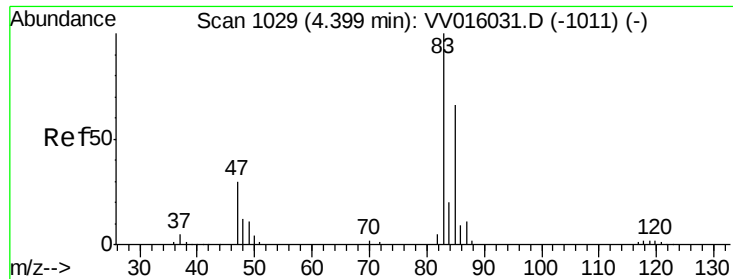
Tot Ion: 73 Resp: 6581
Ion Ratio Lower Upper
73 100
43 24.7 18.8 28.2
57 25.4 17.8 26.6



#22
cis-1,2-Dichloroethene
Concen: 0.344 ug/L
RT: 3.95 min Scan# 888
Delta R.T. 0.01 min
Lab File: VV016041.D
Acq: 13 May 2020 15:22

Tgt Ion: 96 Resp: 3432
Ion Ratio Lower Upper
96 100
61 137.0 97.2 180.6
68 0.0 0.0 0.0

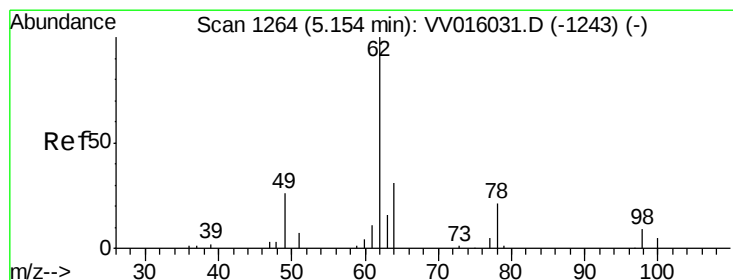
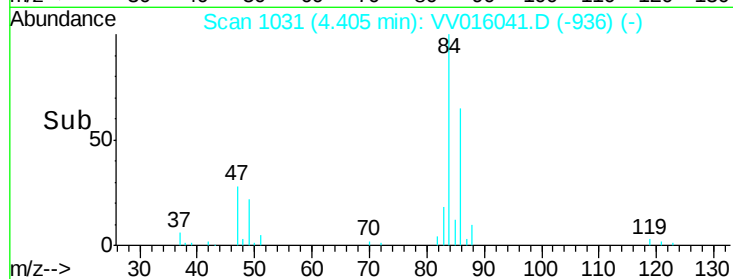
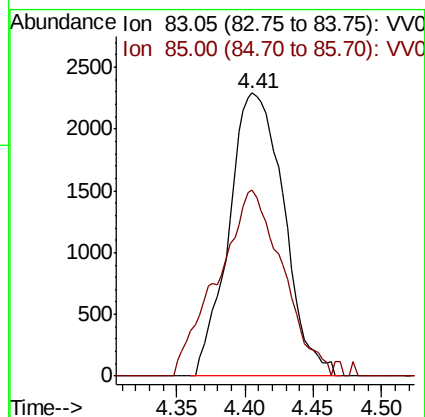
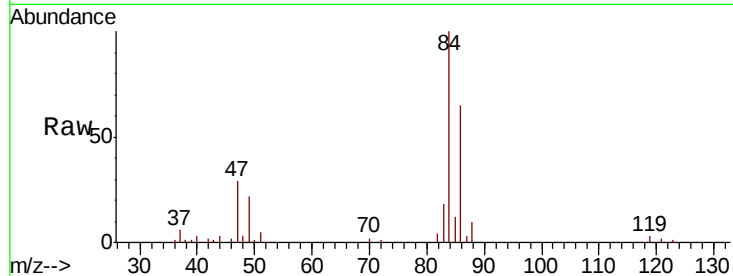




#25
Chloroform
Concen: 0.317 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV016041.D
Acq: 13 May 2020 15:22

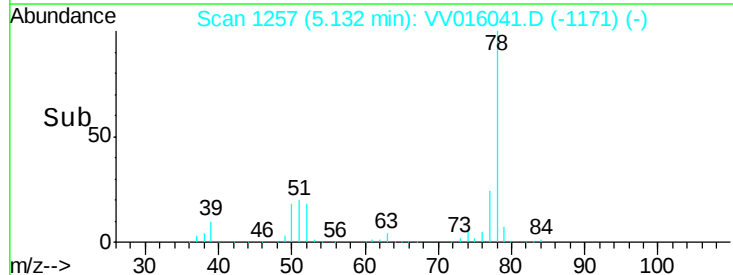
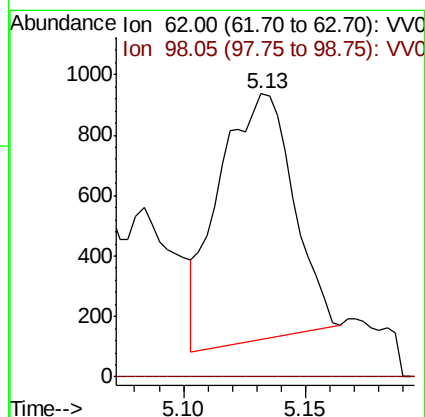
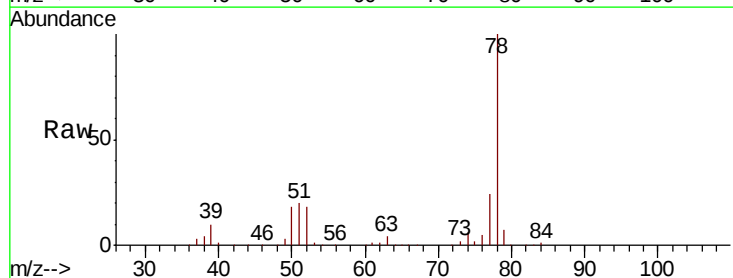
Instrument :
MSVOA_V
ClientSampled :

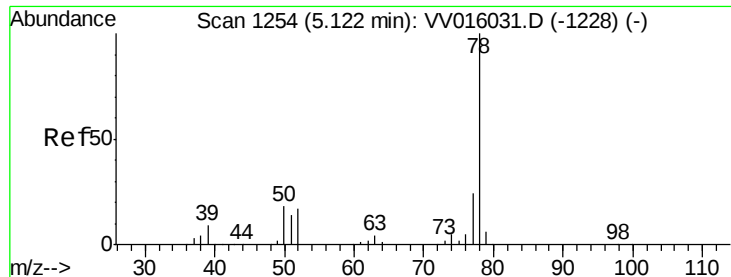
Tot Ion: 83 Resp: 6408
Ion Ratio Lower Upper
83 100
85 65.9 45.7 84.9



#27
1,2-Dichloroethane
Concen: 0.138 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. -0.02 min
Lab File: VV016041.D
Acq: 13 May 2020 15:22

Tgt Ion: 62 Resp: 1719
Ion Ratio Lower Upper
62 100
98 0.0 6.7 10.1#





#33

Benzene

Concen: 5.627 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV016041.D

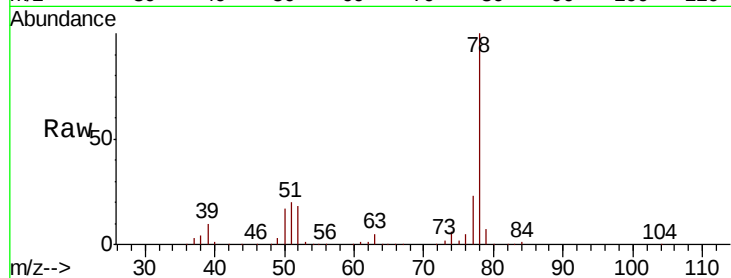
Acq: 13 May 2020 15:22

Instrument :

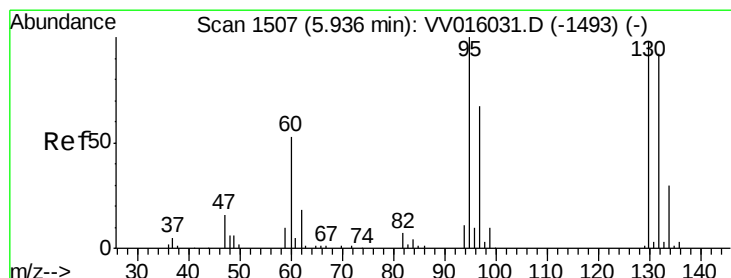
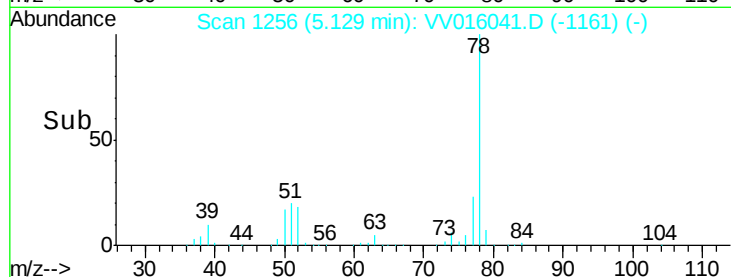
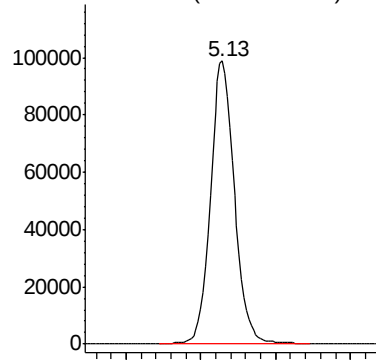
MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 220517



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 6.217 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

Tgt Ion: 95 Resp: 69541

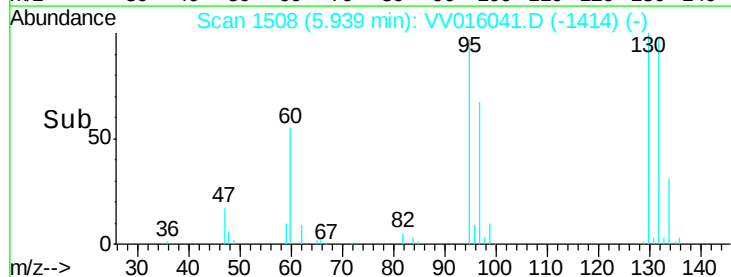
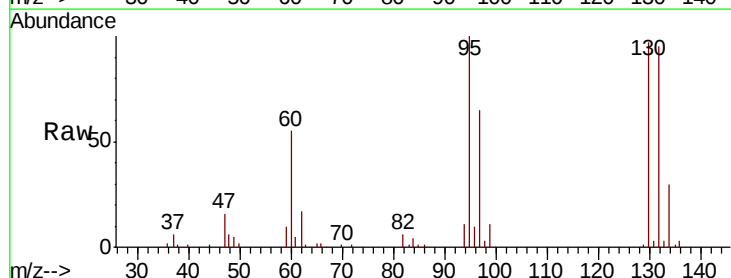
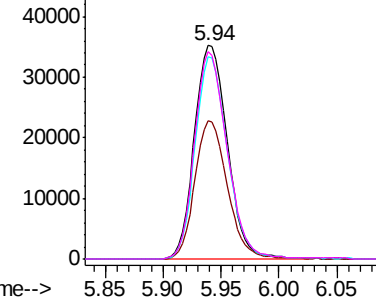
Ion	Ratio	Lower	Upper
95	100		
97	64.7	43.3	80.5
132	94.6	60.3	112.1
130	97.2	66.0	122.6

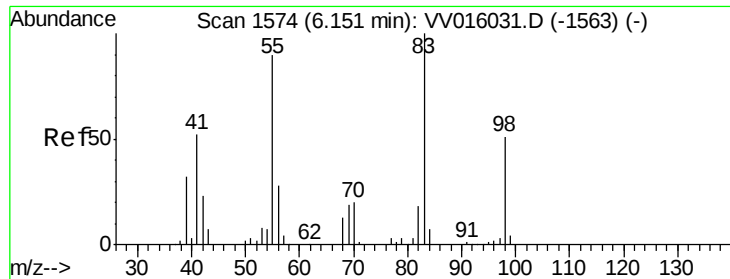
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

Methvlcvclohexane

Concen: 0.851 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.05 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

Instrument :
MSVOA_V
ClientSampleId :

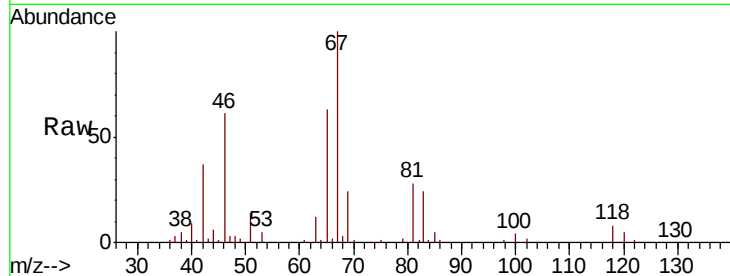
Tot Ion: 83 Resp: 14402

Ion Ratio Lower Upper

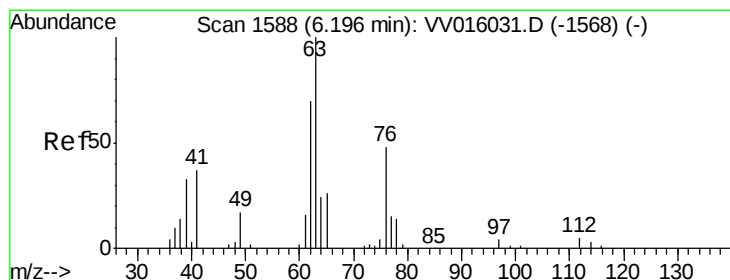
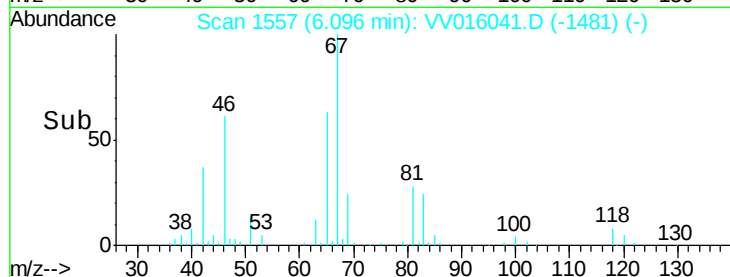
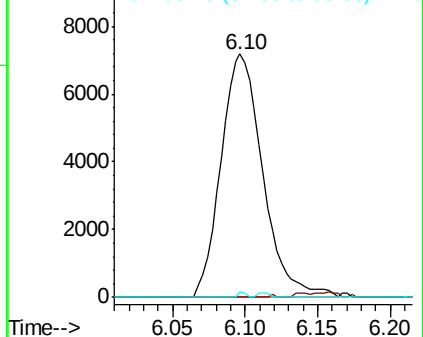
83 100

55 0.1 66.2 99.2#

98 0.5 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: 0.708 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.10 min

Lab File: VV016041.D

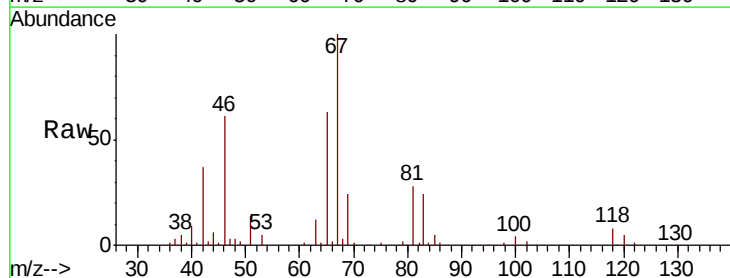
Acq: 13 May 2020 15:22

Tgt Ion: 63 Resp: 7052

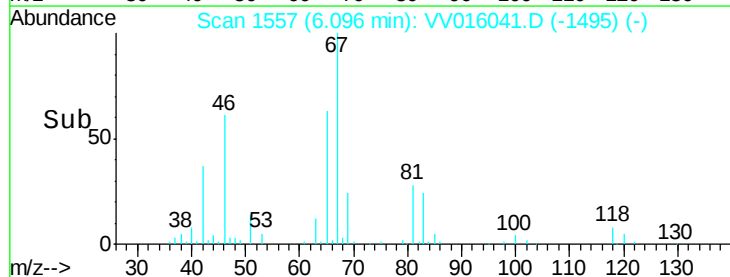
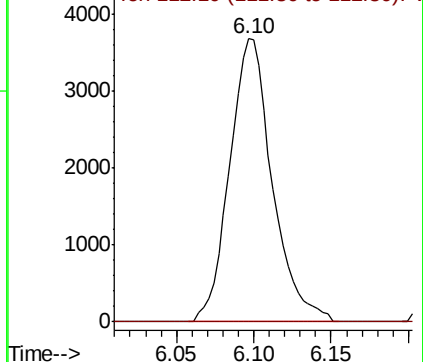
Ion Ratio Lower Upper

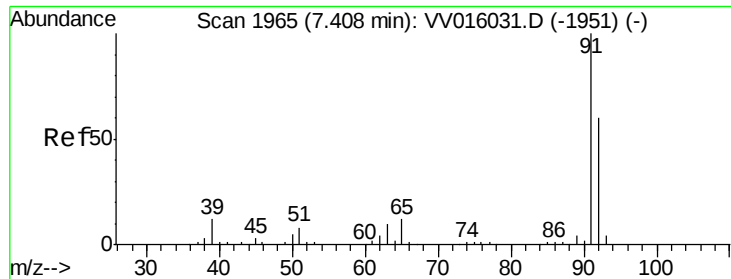
63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 5.609 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

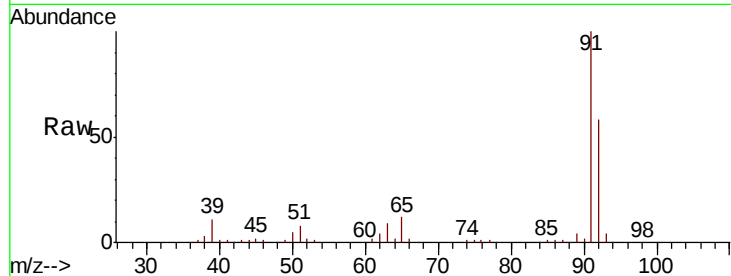
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 232975

Ion Ratio Lower Upper

91 100

92 58.1 40.1 74.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.41

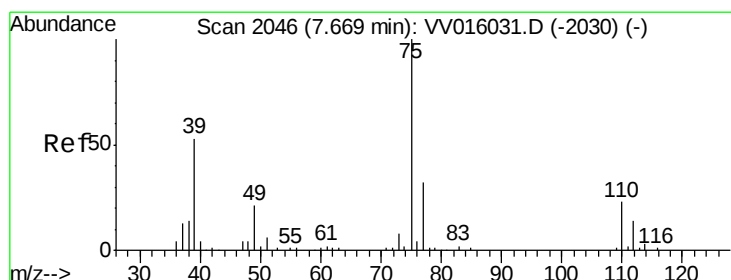
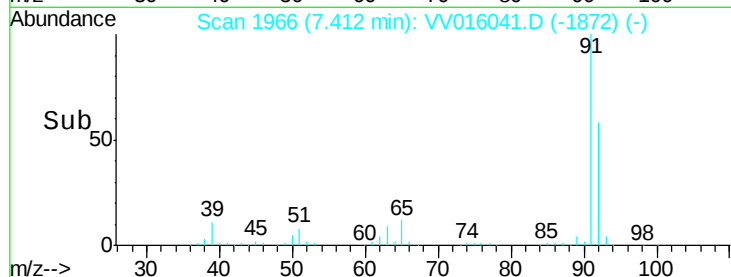
150000

100000

50000

0

Time-->



#46

trans-1,3-Dichloropropene

Concen: 0.077 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.02 min

Lab File: VV016041.D

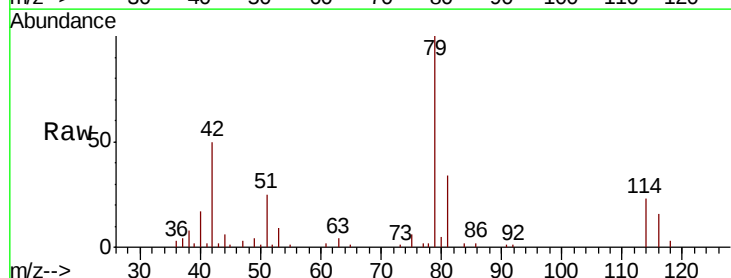
Acq: 13 May 2020 15:22

Tgt Ion: 75 Resp: 912

Ion Ratio Lower Upper

75 100

77 34.6 21.3 39.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.65

600

500

400

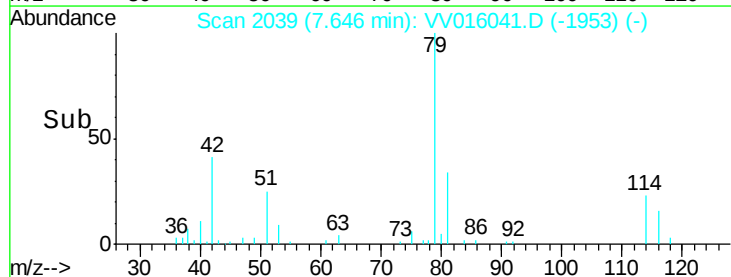
300

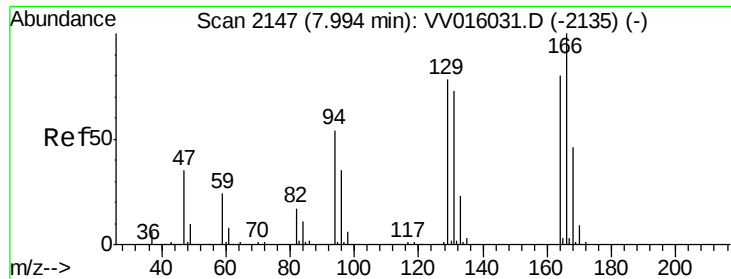
200

100

0

Time-->





#49

Tetrachloroethene

Concen: 11.554 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 90176

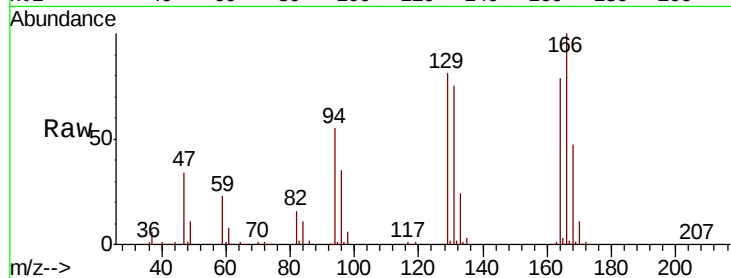
Ion Ratio Lower Upper

164 100

129 102.6 69.7 129.4

131 95.7 66.8 124.2

166 127.0 89.1 165.5

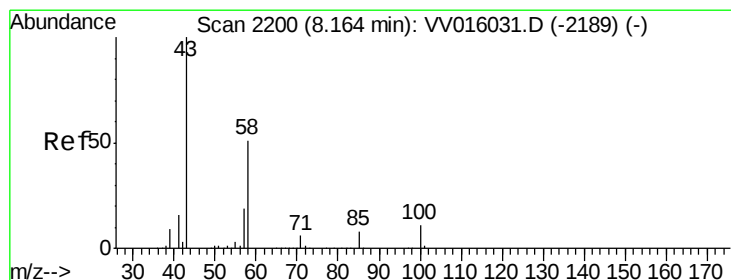
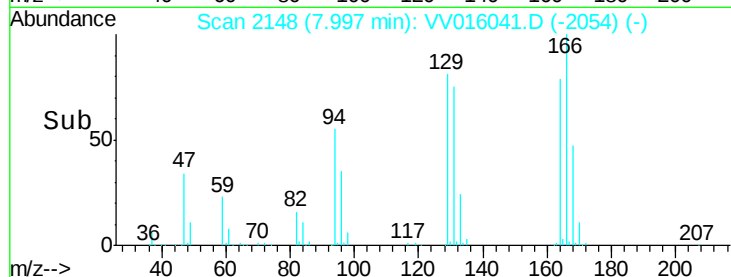
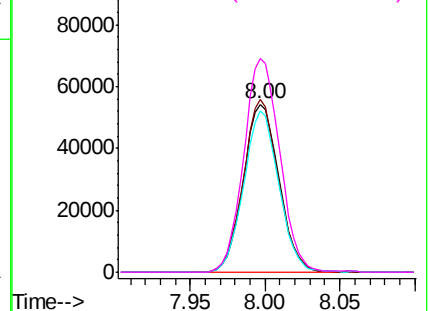


Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.216 ug/L

RT: 8.12 min Scan# 2185

Delta R.T. -0.05 min

Lab File: VV016041.D

Acq: 13 May 2020 15:22

Tgt Ion: 43 Resp: 14112

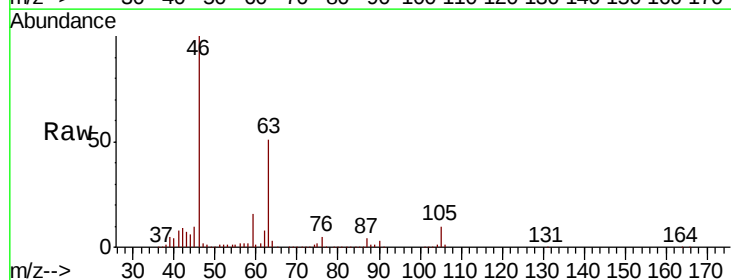
Ion Ratio Lower Upper

43 100

58 44.0 40.8 61.2

57 27.6 14.7 22.1#

100 0.0 9.0 13.6#

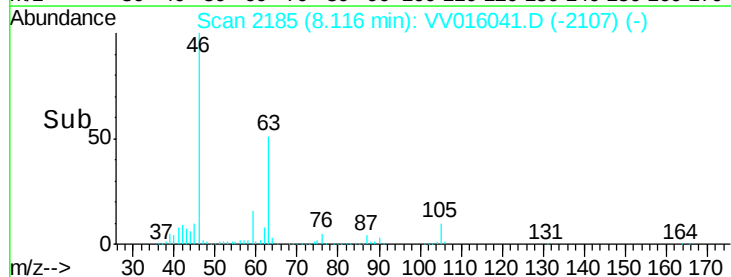
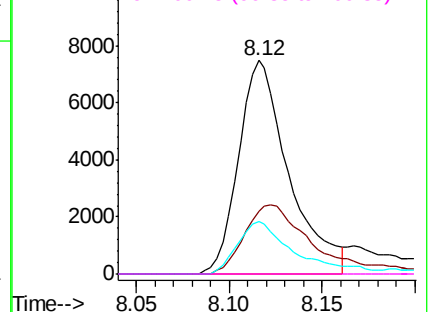


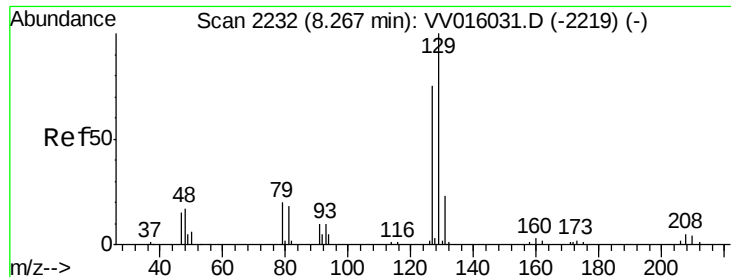
Abundance Ion 43.05 (42.75 to 43.75): VV0

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

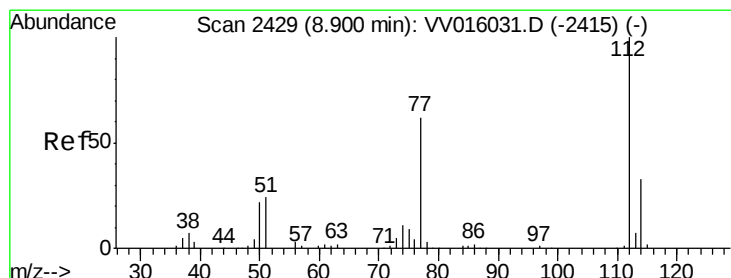
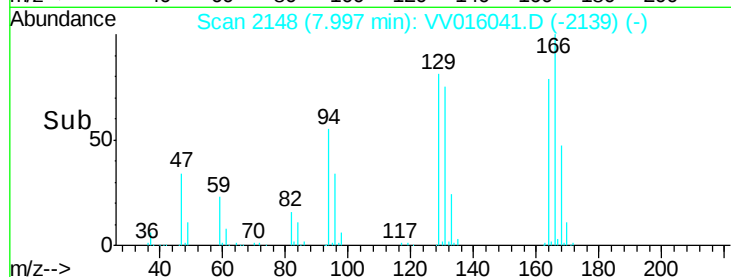
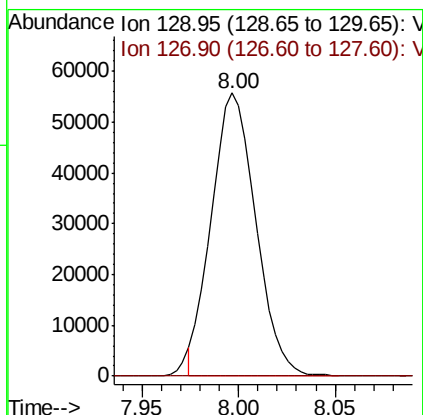
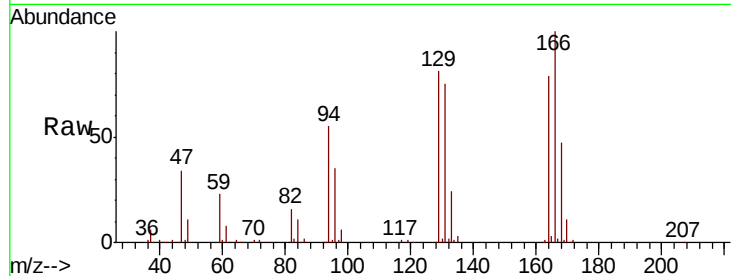




#51
Dibromochloromethane
Concen: 11.805 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV016041.D
Acq: 13 May 2020 15:22

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:129 Resp: 88195
Ion Ratio Lower Upper
129 100
127 0.0 56.0 104.0#



#53
Chlorobenzene
Concen: 5.678 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016041.D
Acq: 13 May 2020 15:22

Tgt Ion:112 Resp: 151686
Ion Ratio Lower Upper
112 100
114 33.3 21.6 40.0
77 63.3 48.6 73.0

