

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016297.D
 Acq On : 29 May 2020 00:18
 Operator : SY/MD
 Sample : L2766-07DL 25X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 04:24:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 04:21:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	86322	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	84831	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	39830	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	20116	3.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.60%
7) Chloroethane-d5	1.58	69	20233	4.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.00%
11) 1,1-Dichloroethene-d2	2.13	63	31129	2.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.80%#
20) 2-Butanone-d5	3.94	46	71671	52.12	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.24%
24) Chloroform-d	4.38	84	47367	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
26) 1,2-Dichloroethane-d4	5.06	65	26915	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.08	84	92481	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.00%
36) 1,2-Dichloropropane-d6	6.10	67	29993	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.20%
41) Toluene-d8	7.34	98	82123	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.00%
45) trans-1,3-Dichloropropene-	7.65	79	9102	3.76	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.20%
48) 2-Hexanone-d5	8.12	63	49887	44.89	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.78%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	21543	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	30776	4.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	1701	0.225	ug/L #	57
8) Chloroethane	1.60	64	20828	4.931	ug/L	90
13) Acetone	2.21	43	5183	6.089	ug/L	91
16) Methylene chloride	2.53	84	988	0.169	ug/L	93
19) 1,1-Dichloroethane	3.22	63	4891	0.462	ug/L #	93
22) cis-1,2-Dichloroethene	3.94	96	12626	1.916	ug/L	100
25) Chloroform	4.41	83	1404	0.125	ug/L	97
30) Cyclohexane	4.70	56	888	0.082	ug/L #	78
33) Benzene	5.13	78	85564	3.505	ug/L	100
35) Methylcyclohexane	6.15	83	1269	0.118	ug/L #	84
37) 1,2-Dichloropropane	6.10	63	3576	0.597	ug/L #	88
42) Toluene	7.41	91	168247	6.320	ug/L	97
43) 1,3,5-Trimethylbenzene	10.56	105	2179	0.090	ug/L	91
44) 1,2,4-Trimethylbenzene	10.94	105	9474	0.380	ug/L	92
46) trans-1,3-Dichloropropene	7.64	75	520	0.074	ug/L	93
49) Tetrachloroethene	8.00	164	687	0.150	ug/L #	75
50) 2-Hexanone	8.12	43	6904	2.658	ug/L #	72

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 29 04:21:25 2020
Response via : Initial Calibration

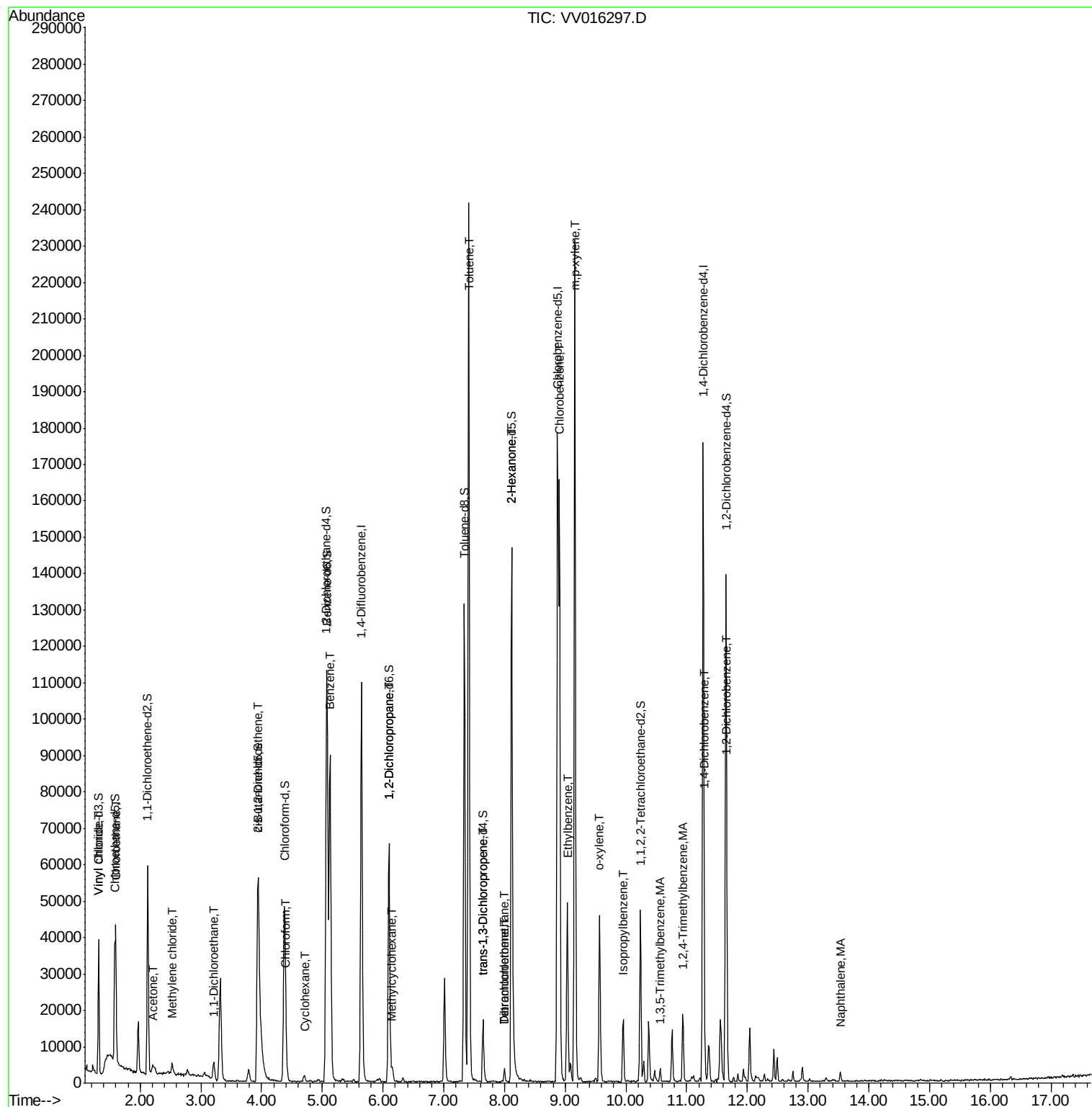
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Dibromochloromethane	8.00	129	781	0.187	ug/L #	10
53) Chlorobenzene	8.90	112	78555	4.775	ug/L	100
54) Ethylbenzene	9.04	91	32402	1.092	ug/L	100
55) m,p-xylene	9.16	106	59125	5.314	ug/L	99
56) o-xylene	9.57	106	11320	1.068	ug/L	98
58) Isopropylbenzene	9.95	105	10402	0.358	ug/L	98
64) 1,4-Dichlorobenzene	11.30	146	2812	0.228	ug/L	95
66) 1,2-Dichlorobenzene	11.67	146	1942	0.177	ug/L	87
70) Naphthalene	13.53	128	2455	0.149	ug/L	97

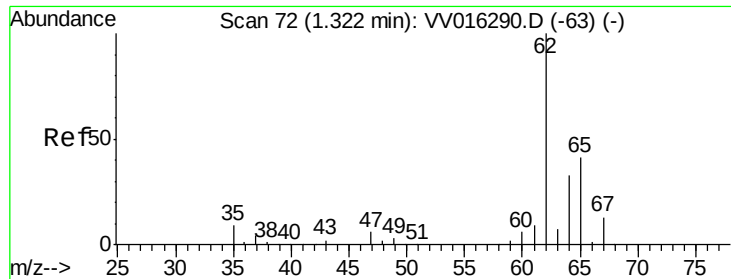
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.225 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

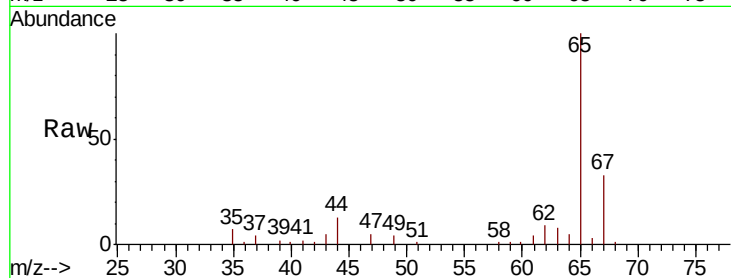
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 1701

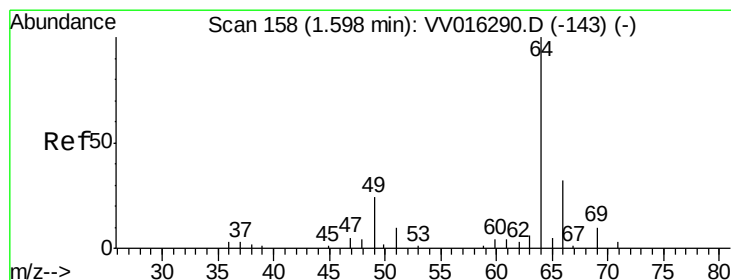
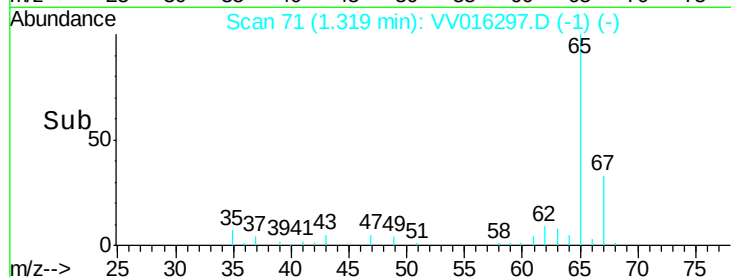
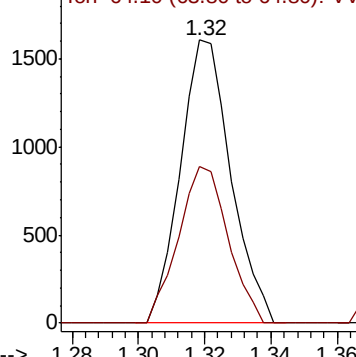
Ion Ratio Lower Upper

62 100

64 55.5 22.1 41.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 4.931 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016297.D

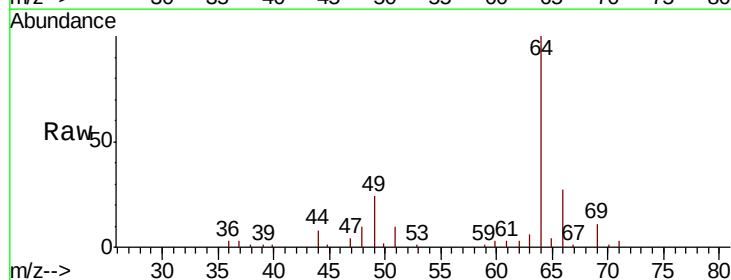
Acq: 29 May 2020 00:18

Tgt Ion: 64 Resp: 20828

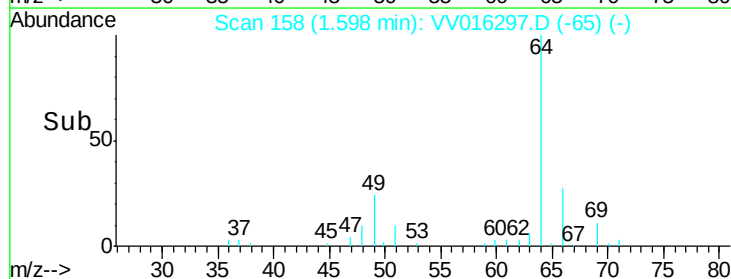
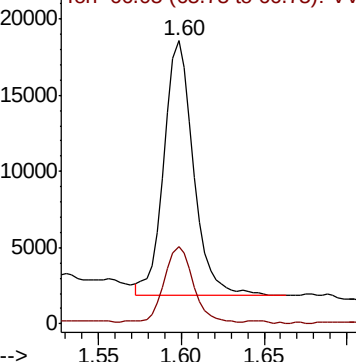
Ion Ratio Lower Upper

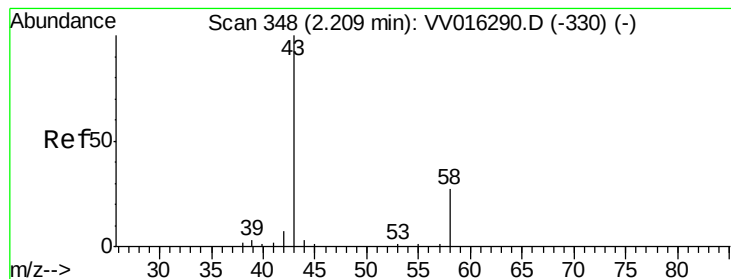
64 100

66 27.2 22.9 42.5



Abundance Ion 64.10 (63.80 to 64.80): VV0
Ion 66.05 (65.75 to 66.75): VV0





#13

Acetone

Concen: 6.089 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

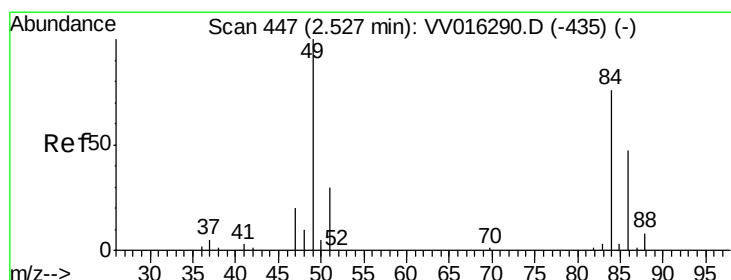
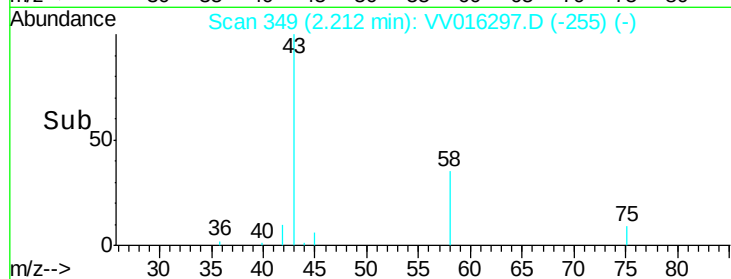
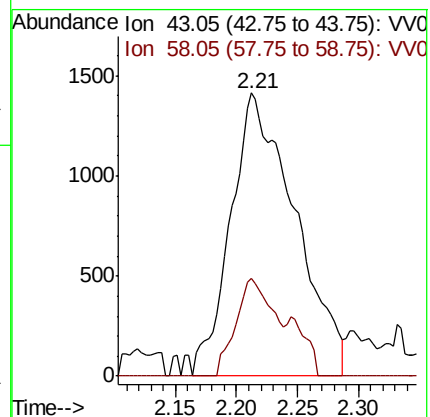
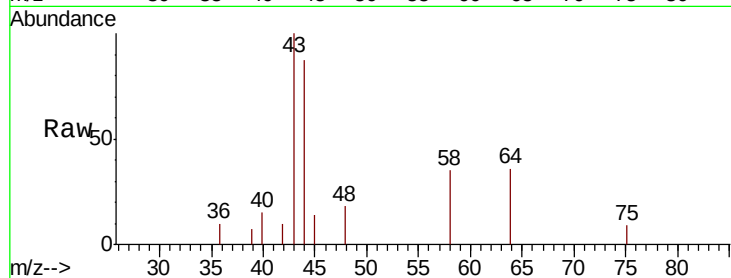
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 5183

Ion Ratio Lower Upper

43 100

58 20.0 0.0 48.8



#16

Methylene chloride

Concen: 0.169 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

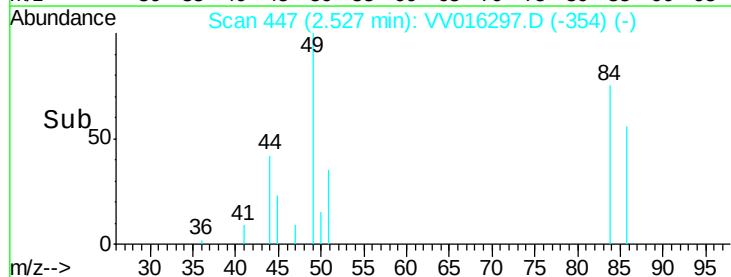
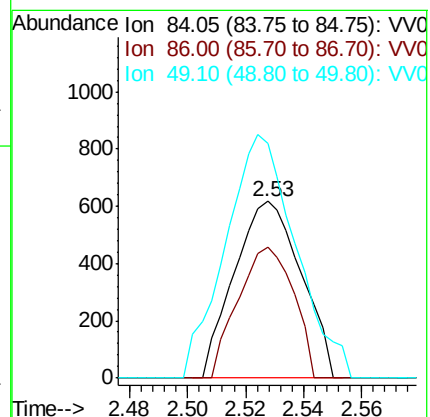
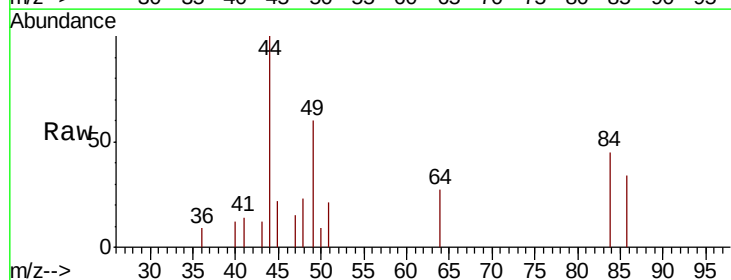
Tgt Ion: 84 Resp: 988

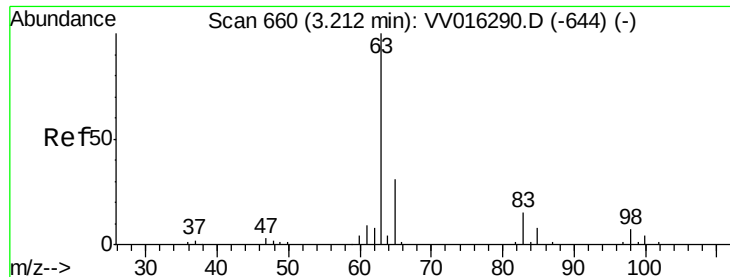
Ion Ratio Lower Upper

84 100

86 74.2 44.9 83.5

49 132.7 96.7 179.7

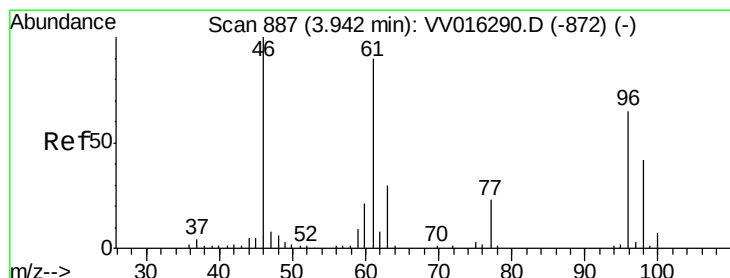
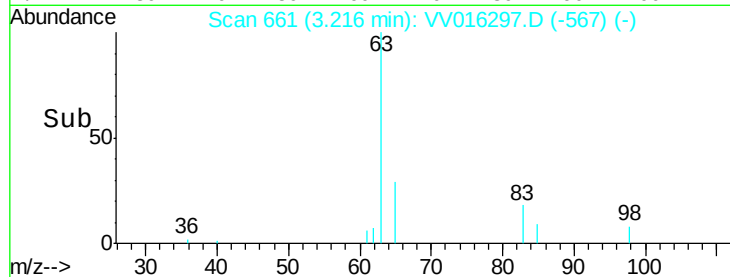
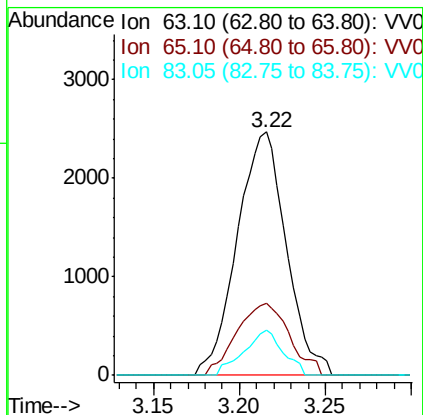
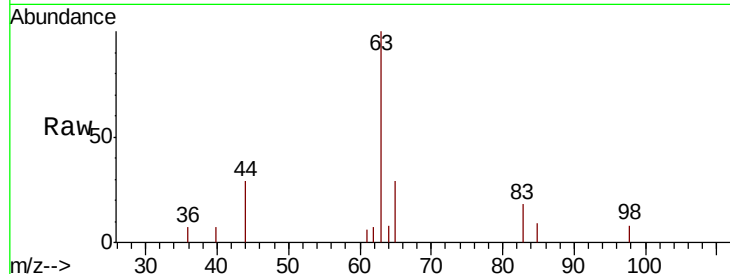




#19
 1,1-Dichloroethane
 Concen: 0.462 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: VV016297.D
 Acq: 29 May 2020 00:18

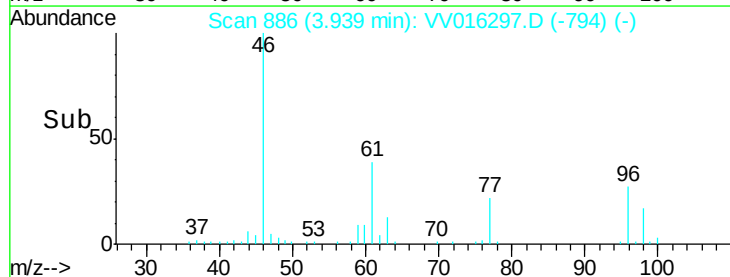
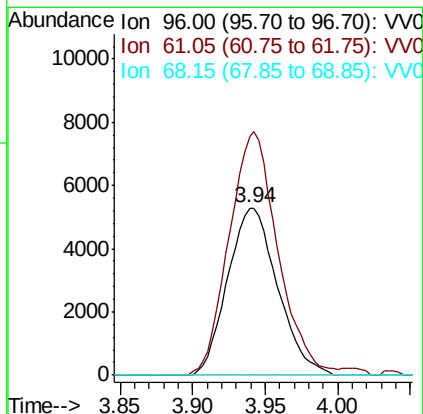
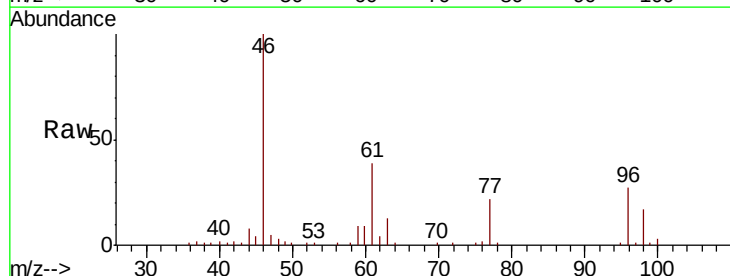
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 MSVOA_V
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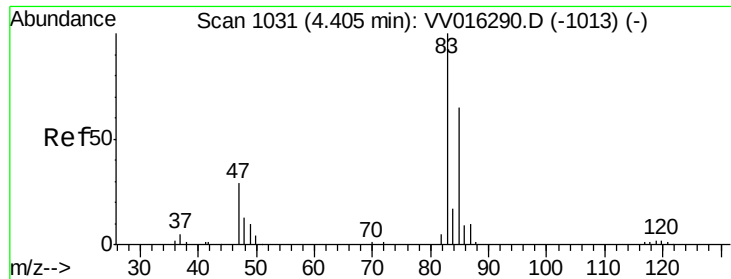
Tot Ion: 63 Resp: 4891
 Ion Ratio Lower Upper
 63 100
 65 29.4 22.3 41.5
 83 18.5 9.4 17.4#



#22
 cis-1,2-Dichloroethene
 Concen: 1.916 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VV016297.D
 Acq: 29 May 2020 00:18

Tgt Ion: 96 Resp: 12626
 Ion Ratio Lower Upper
 96 100
 61 142.6 99.7 185.1
 68 0.0 0.0 0.0

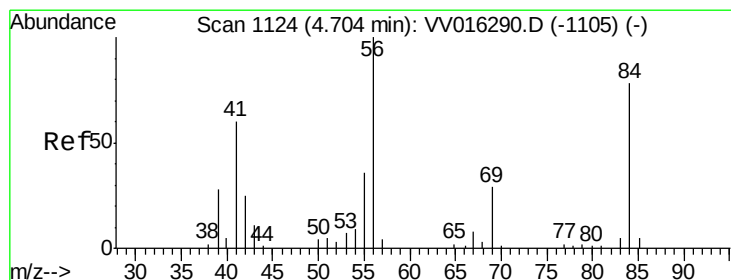
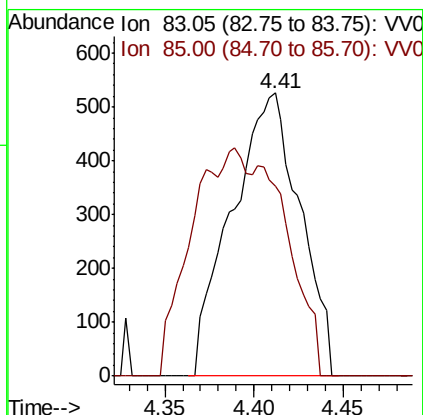
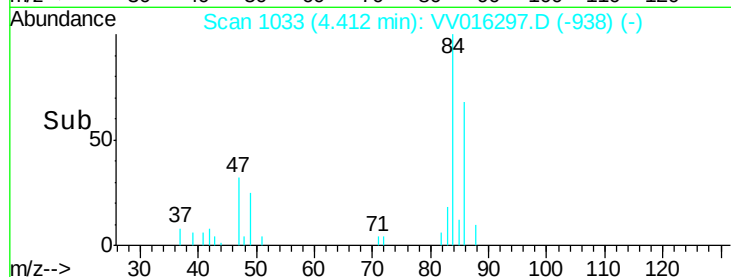
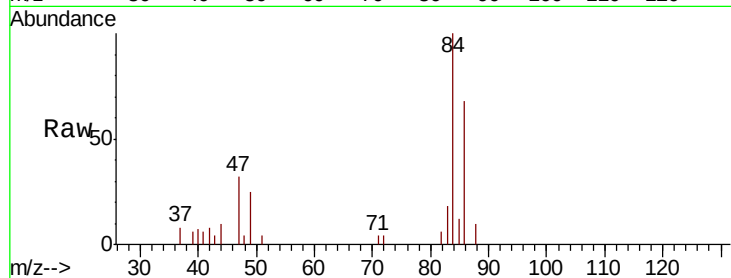




#25
Chloroform
Concen: 0.125 ug/L
RT: 4.41 min Scan# 1033
Delta R.T. 0.01 min
Lab File: VV016297.D
Acq: 29 May 2020 00:18

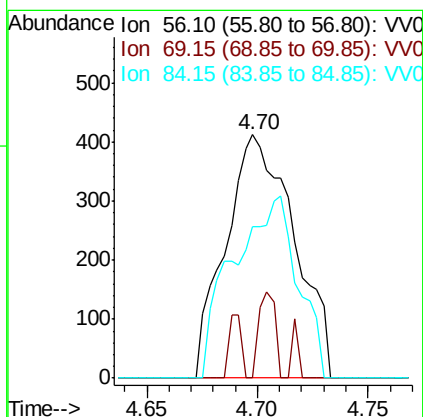
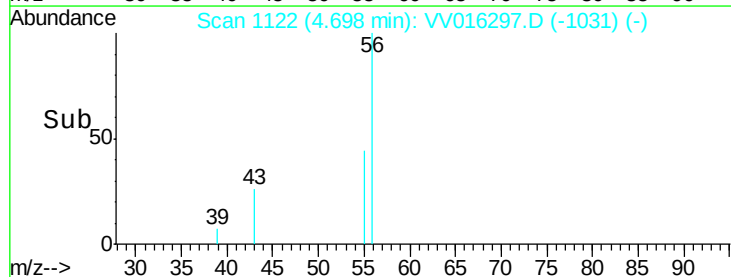
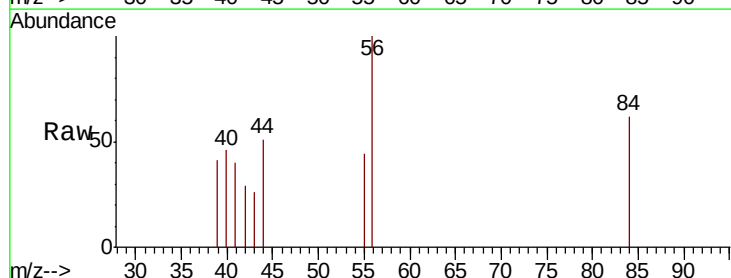
Instrument :
MSVOA_V
ClientSampled :

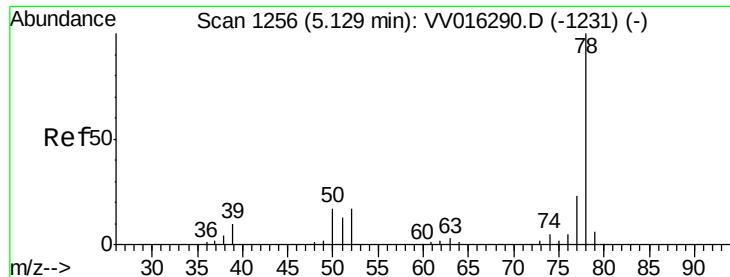
Tot Ion: 83 Resp: 1404
Ion Ratio Lower Upper
83 100
85 67.1 45.1 83.7



#30
Cyclohexane
Concen: 0.082 ug/L
RT: 4.70 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VV016297.D
Acq: 29 May 2020 00:18

Tgt Ion: 56 Resp: 888
Ion Ratio Lower Upper
56 100
69 8.6 24.6 36.8#
84 70.5 67.1 100.7





#33

Benzene

Concen: 3.505 ug/L

RT: 5.13 min Scan# 1255

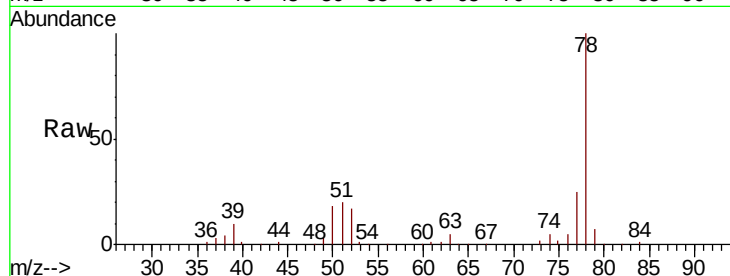
Delta R.T. -0.00 min

Lab File: VV016297.D

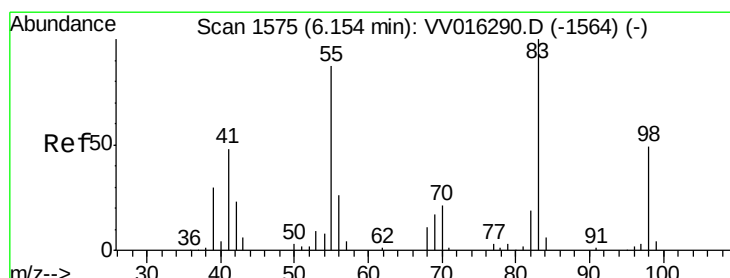
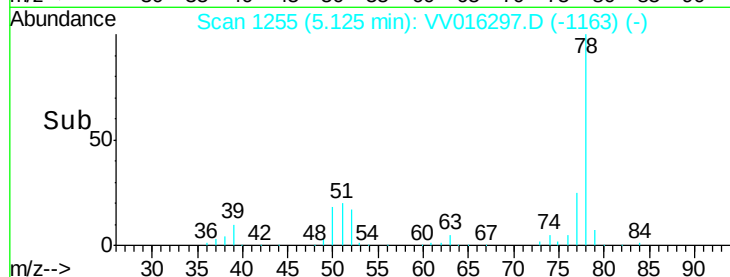
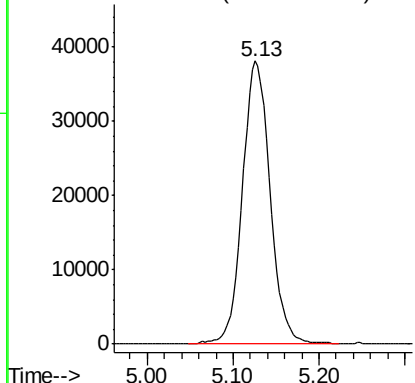
Acq: 29 May 2020 00:18

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 85564



Abundance Ion 78.10 (77.80 to 78.80): VV0



#35

Methylcyclohexane

Concen: 0.118 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV016297.D

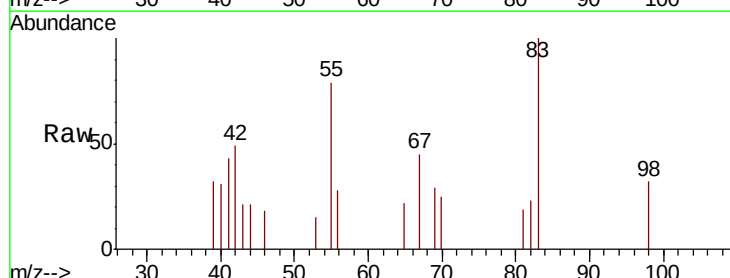
Acq: 29 May 2020 00:18

Tgt Ion: 83 Resp: 1269

Ion	Ratio	Lower	Upper
83	100		
55	92.7	65.4	98.0
98	34.7	39.3	58.9

55 92.7 65.4 98.0

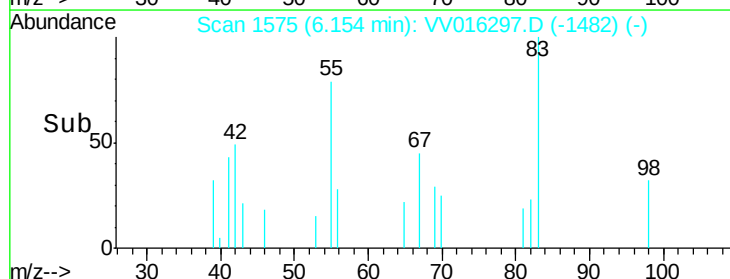
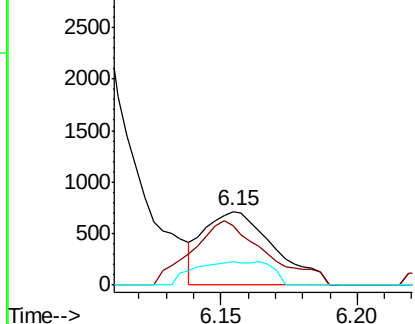
98 34.7 39.3 58.9

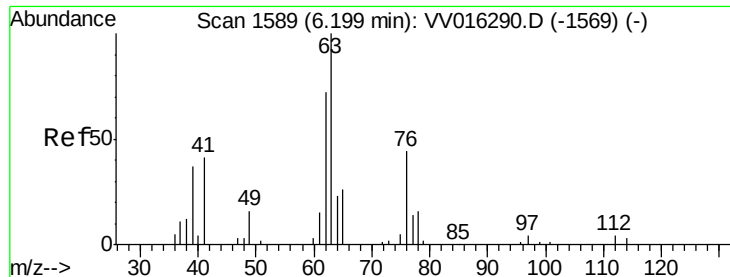


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

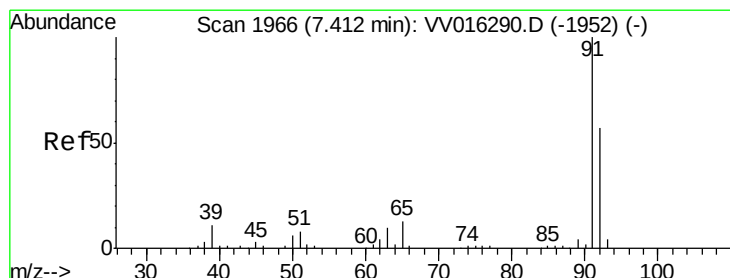
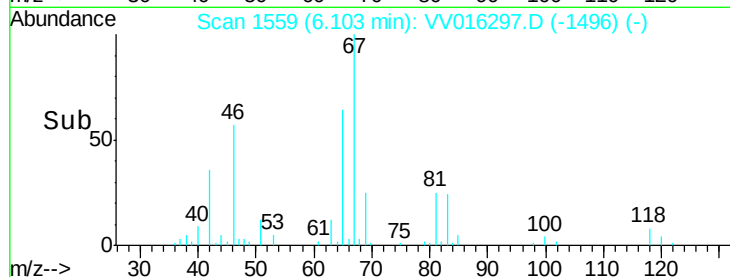
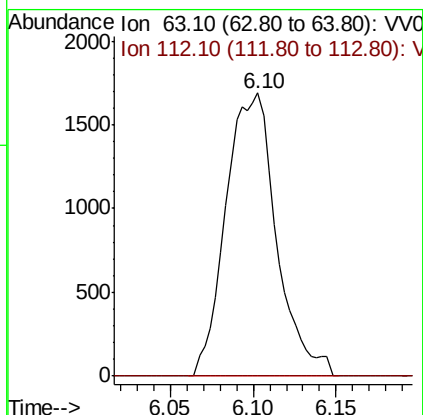
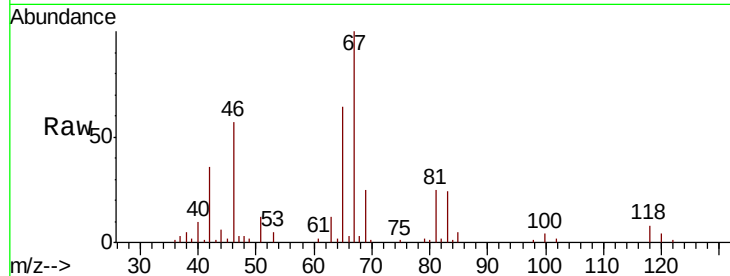




#37
 1,2-Dichloropropane
 Concen: 0.597 ug/L
 RT: 6.10 min Scan# 1559
 Delta R.T. -0.10 min
 Lab File: VV016297.D
 Acq: 29 May 2020 00:18

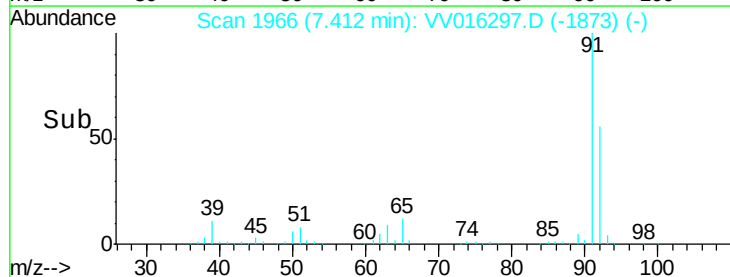
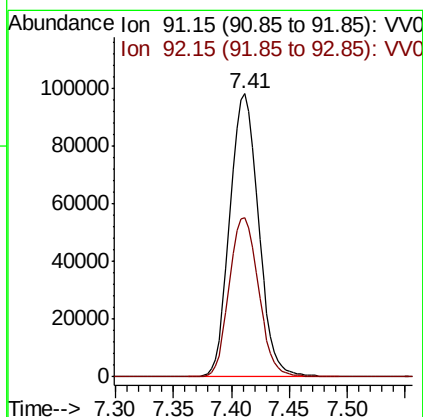
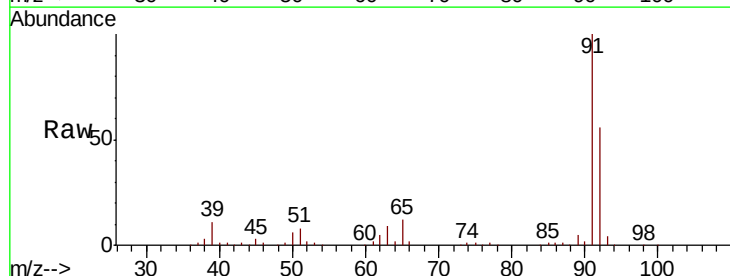
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 MSVOA_V
 ClientSampleId :

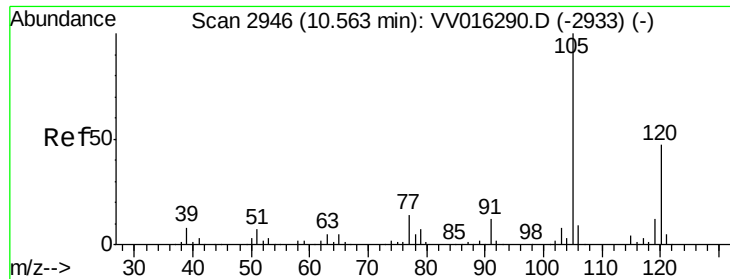
Tot Ion: 63 Resp: 3576
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#42
 Toluene
 Concen: 6.320 ug/L
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VV016297.D
 Acq: 29 May 2020 00:18

Tgt Ion: 91 Resp: 168247
 Ion Ratio Lower Upper
 91 100
 92 56.2 40.9 76.0





#43

1,3,5-Trimethylbenzene

Concen: 0.090 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA_V

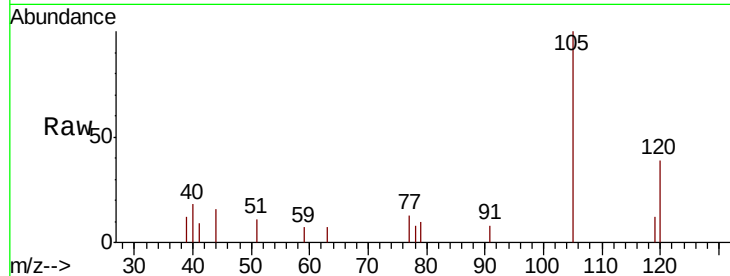
ClientSampleId :

Tot Ion:105 Resp: 2179

Ion Ratio Lower Upper

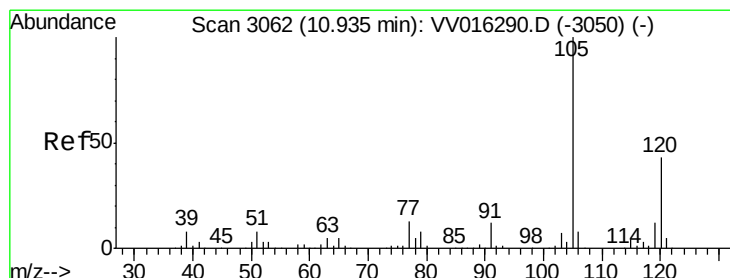
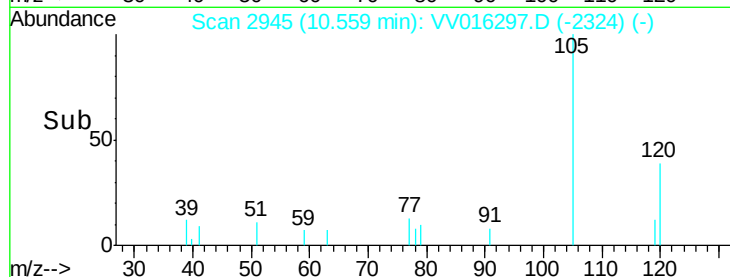
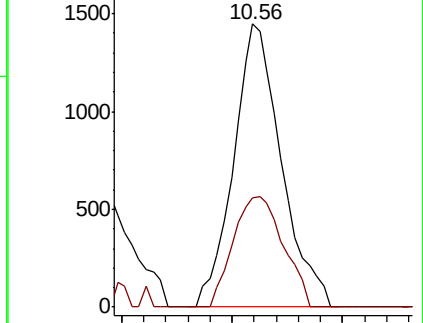
105 100

120 40.9 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#44

1,2,4-Trimethylbenzene

Concen: 0.380 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV016297.D

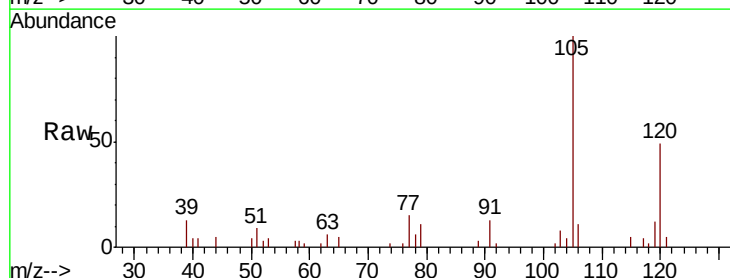
Acq: 29 May 2020 00:18

Tgt Ion:105 Resp: 9474

Ion Ratio Lower Upper

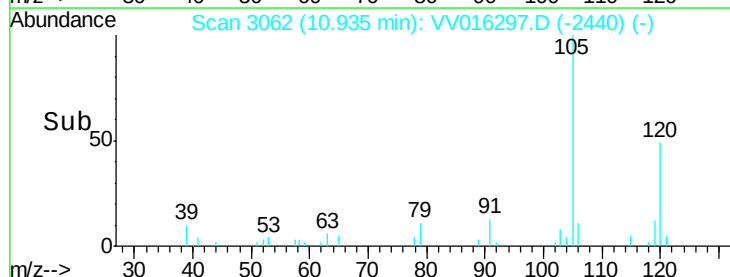
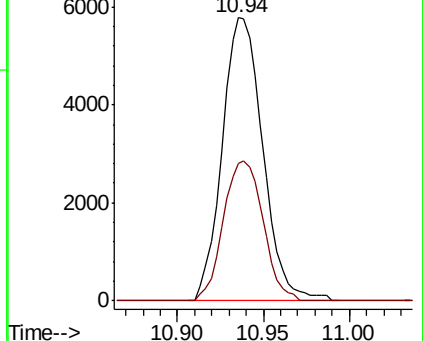
105 100

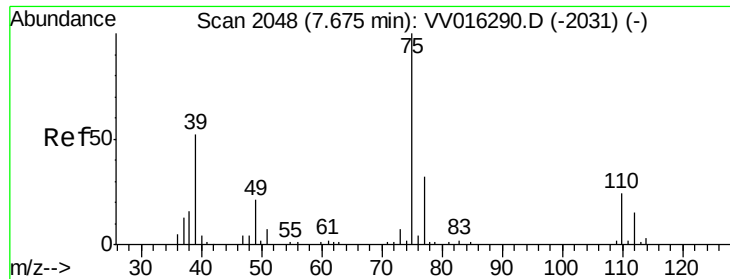
120 48.3 34.6 52.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#46

trans-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA_V

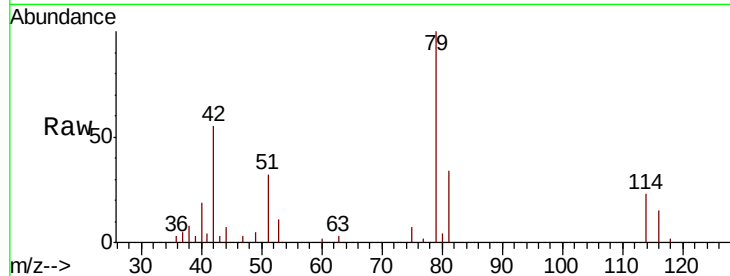
ClientSampleId :

Tot Ion: 75 Resp: 520

Ion Ratio Lower Upper

75 100

77 34.6 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.64

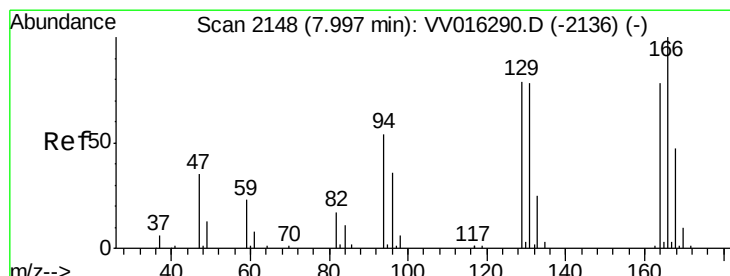
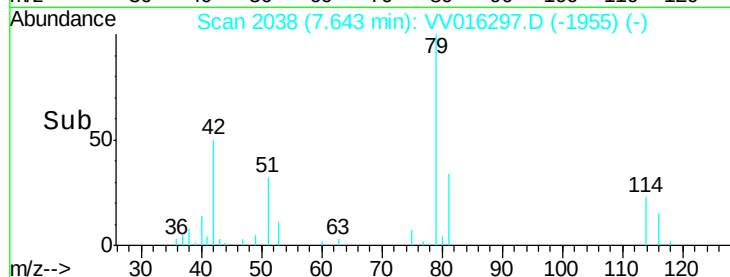
300

200

100

0

Time--> 7.60 7.62 7.64 7.66 7.68



#49

Tetrachloroethene

Concen: 0.150 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Tgt Ion:164 Resp: 687

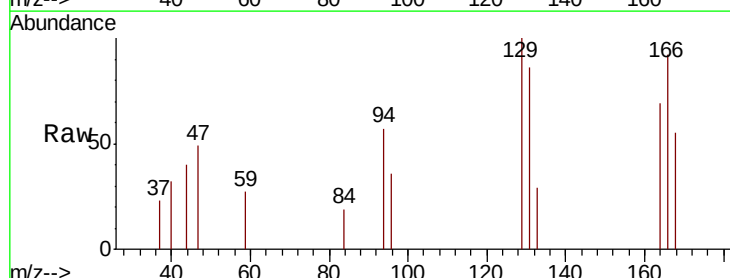
Ion Ratio Lower Upper

164 100

129 144.1 70.7 131.3#

131 124.2 66.6 123.8#

166 132.0 86.9 161.5



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

800

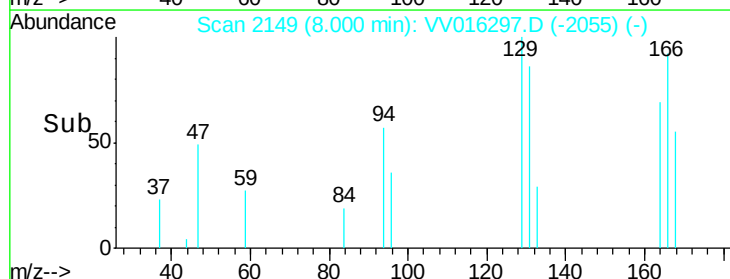
600

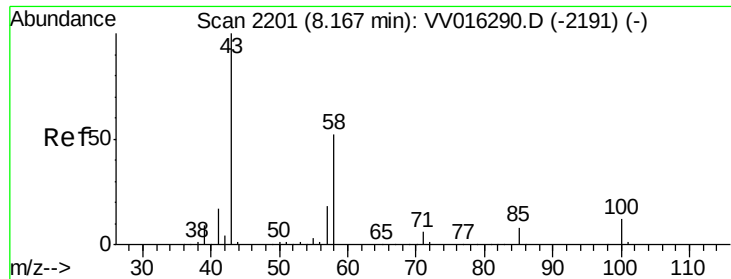
400

200

0

Time--> 7.96 7.98 8.00 8.02 8.04

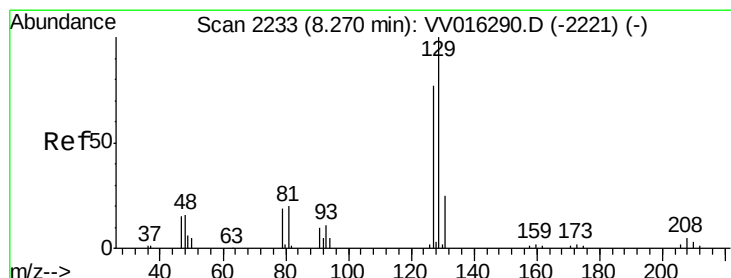
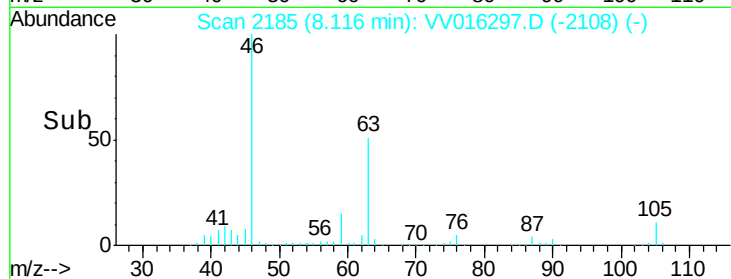
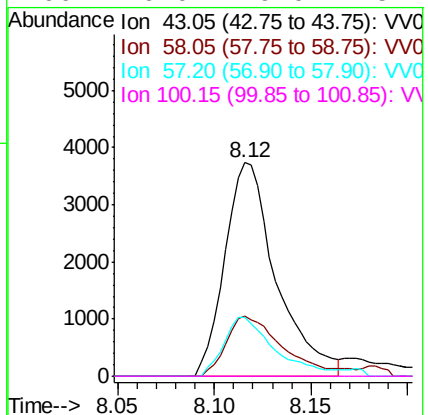
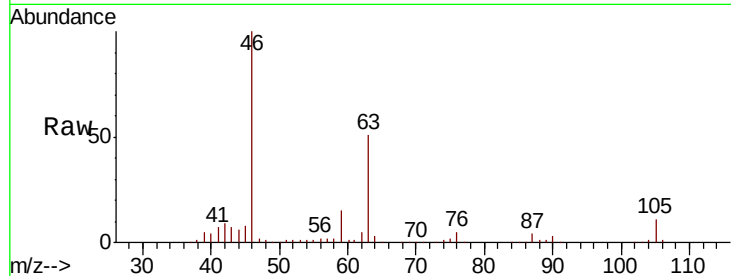




#50
2-Hexanone
Concen: 2.658 ug/L
RT: 8.12 min Scan# 2185
Delta R.T. -0.05 min
Lab File: VV016297.D
Acq: 29 May 2020 00:18

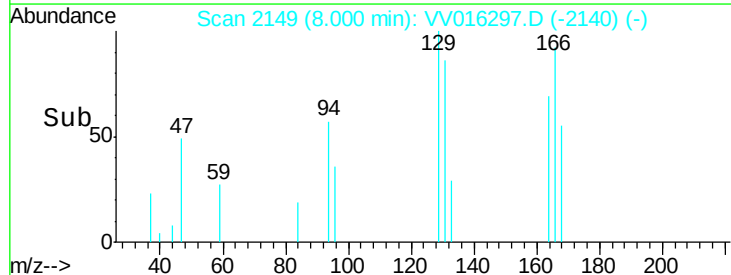
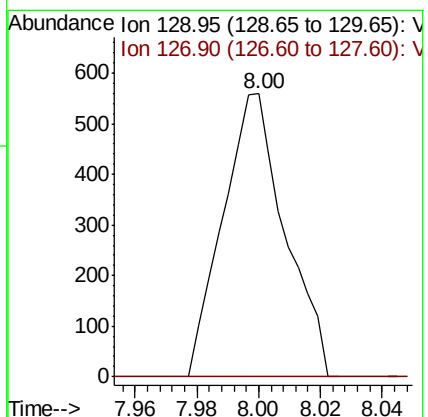
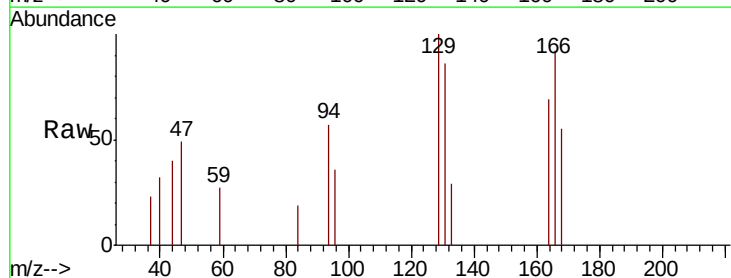
Instrument :
MSVOA_V
ClientSampleId :

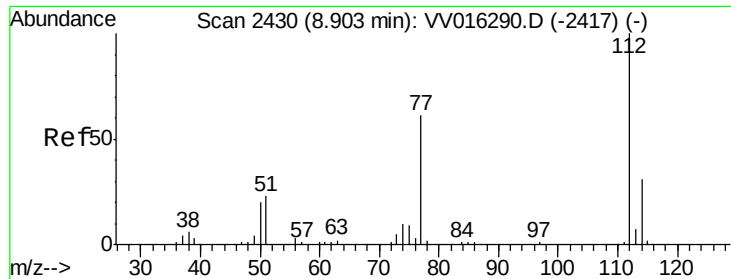
Tot Ion: 43 Resp: 6904
Ion Ratio Lower Upper
43 100
58 30.3 41.4 62.0#
57 28.0 15.0 22.4#
100 0.0 9.0 13.4#



#51
Dibromochloromethane
Concen: 0.187 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. -0.27 min
Lab File: VV016297.D
Acq: 29 May 2020 00:18

Tgt Ion: 129 Resp: 781
Ion Ratio Lower Upper
129 100
127 0.0 55.2 102.4#

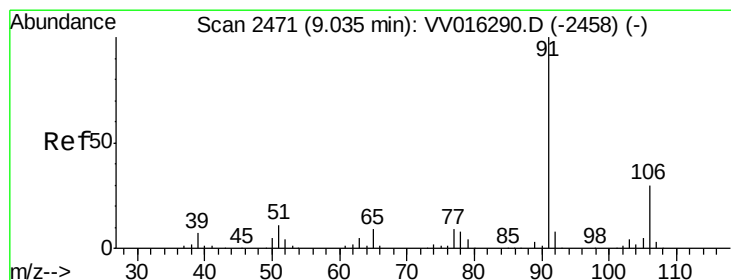
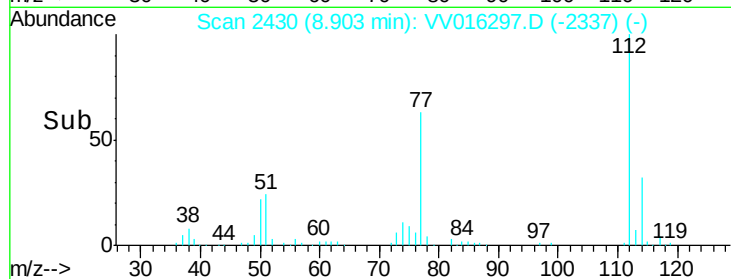
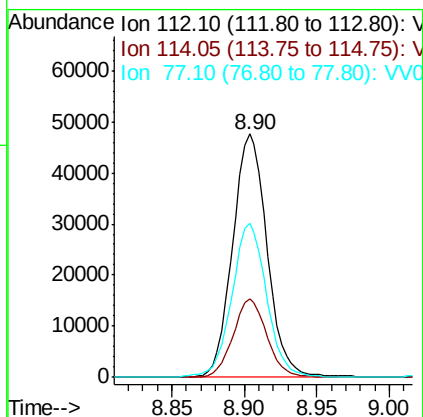
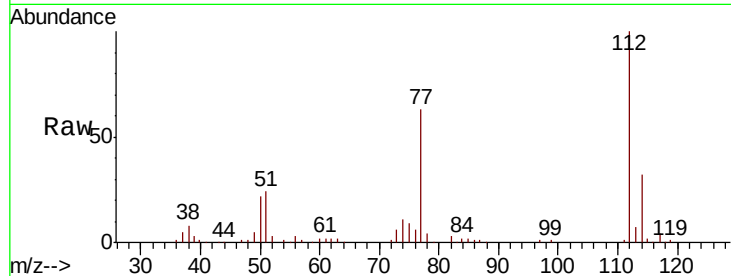




#53
Chlorobenzene
Concen: 4.775 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016297.D
Acq: 29 May 2020 00:18

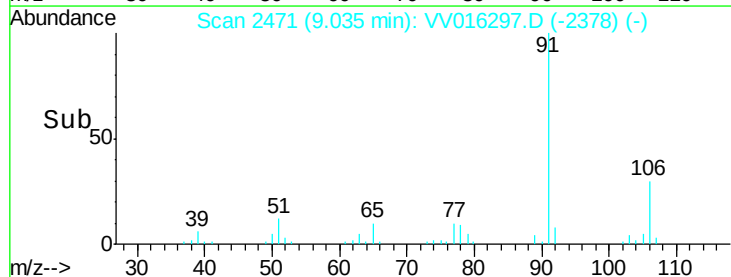
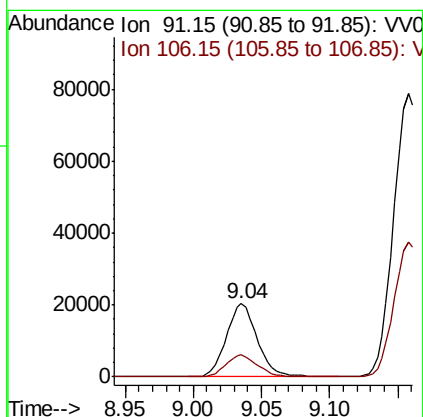
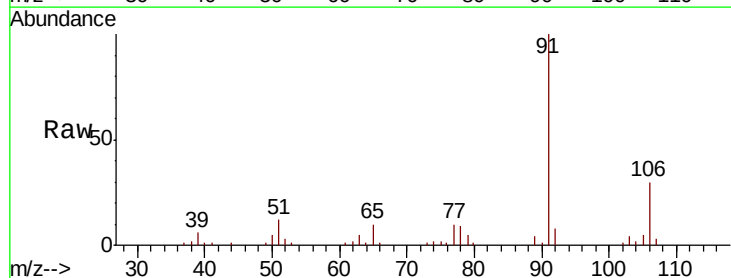
Instrument :
MSVOA_V
ClientSampled :

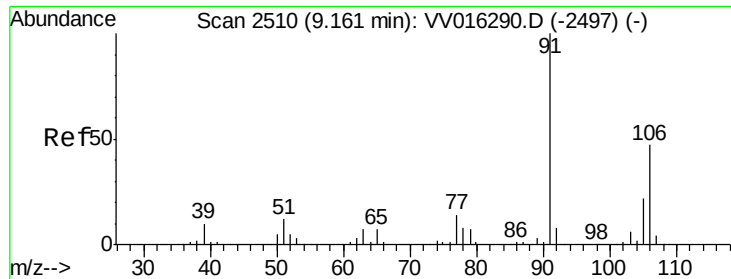
Tot Ion:112 Resp: 78555
Ion Ratio Lower Upper
112 100
114 32.2 22.3 41.3
77 63.3 50.7 76.1



#54
Ethylbenzene
Concen: 1.092 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016297.D
Acq: 29 May 2020 00:18

Tgt Ion: 91 Resp: 32402
Ion Ratio Lower Upper
91 100
106 30.1 21.0 39.0





#55

m,p-xylene

Concen: 5.314 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

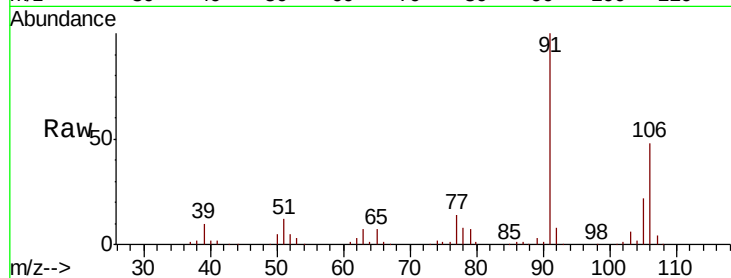
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 59125

Ion Ratio Lower Upper

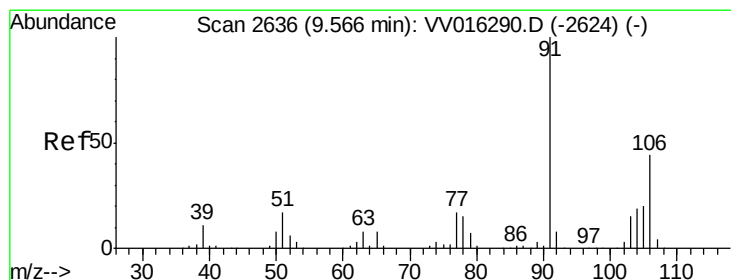
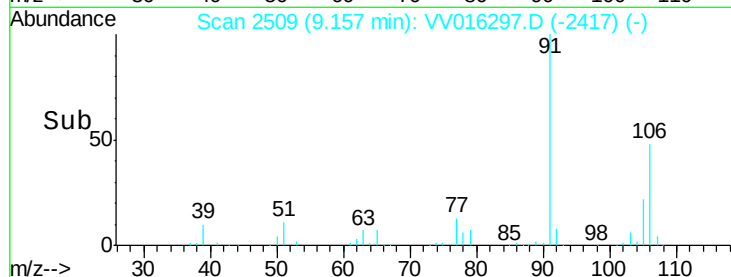
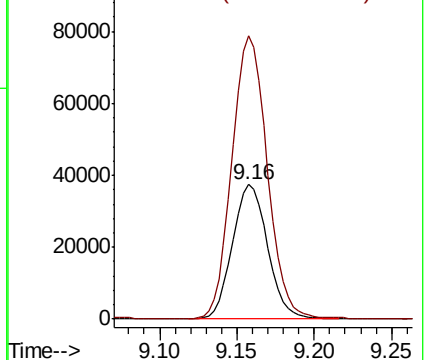
106 100

91 210.5 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 1.068 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016297.D

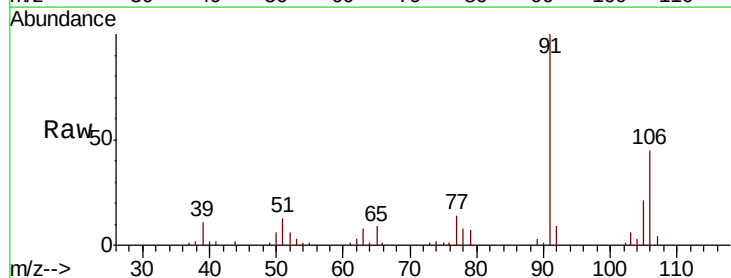
Acq: 29 May 2020 00:18

Tgt Ion:106 Resp: 11320

Ion Ratio Lower Upper

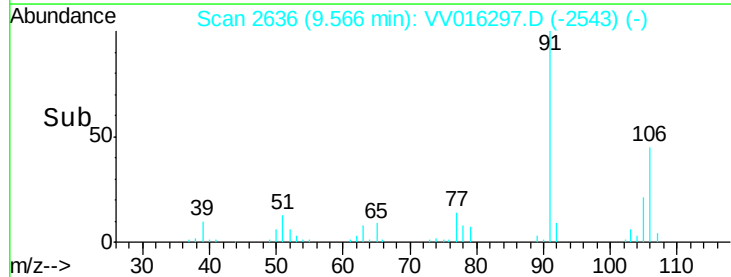
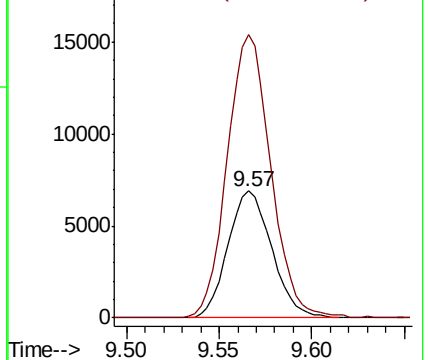
106 100

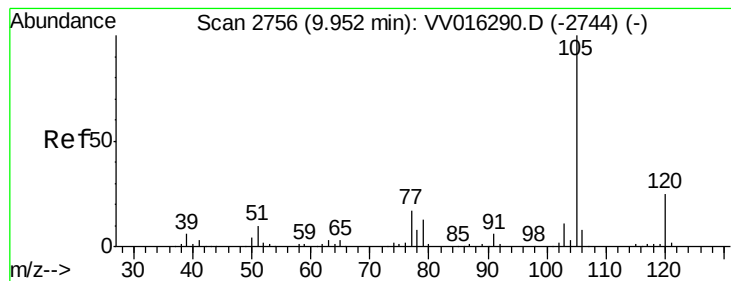
91 223.4 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#58

Isopropylbenzene

Concen: 0.358 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA_V

ClientSampleId :

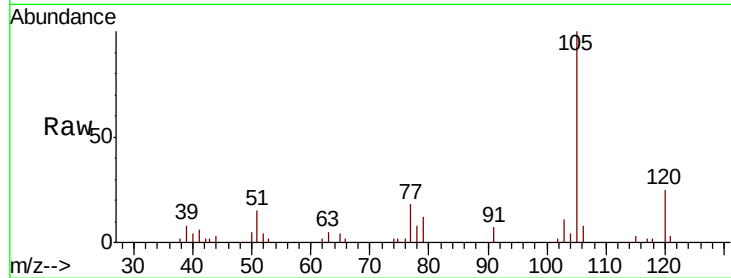
Tot Ion:105 Resp: 10402

Ion Ratio Lower Upper

105 100

120 25.7 20.9 31.3

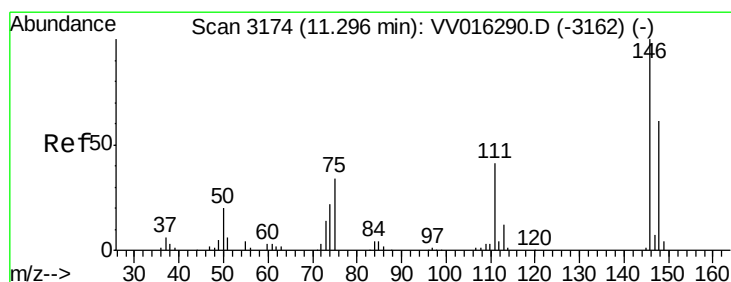
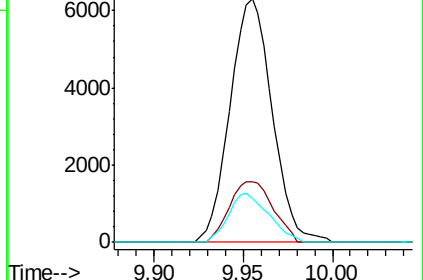
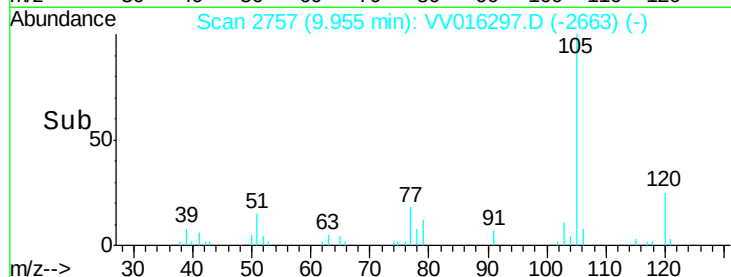
77 19.2 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#64

1,4-Dichlorobenzene

Concen: 0.228 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

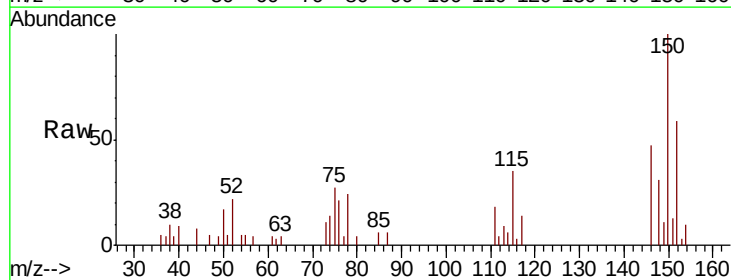
Tgt Ion:146 Resp: 2812

Ion Ratio Lower Upper

146 100

111 38.0 28.3 52.7

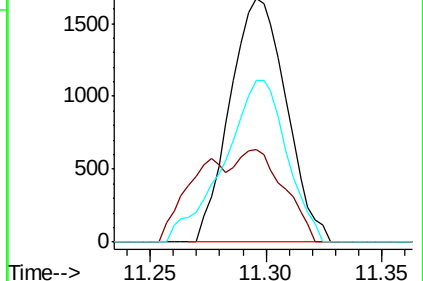
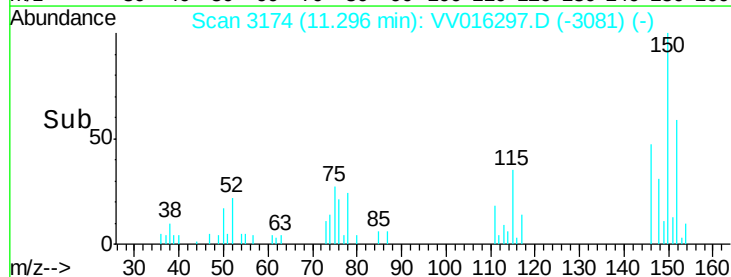
148 66.3 43.3 80.3

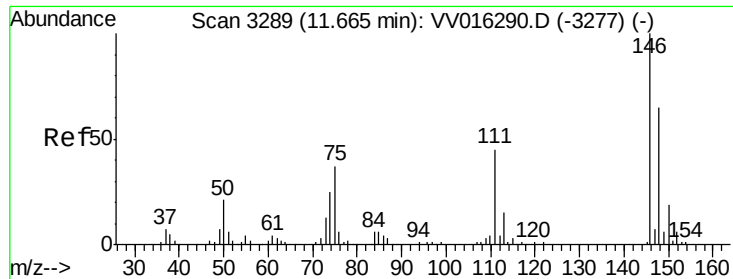


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

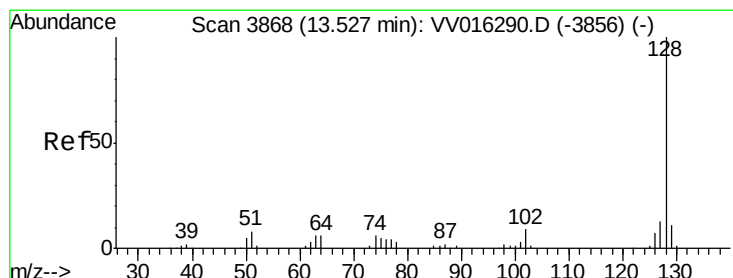
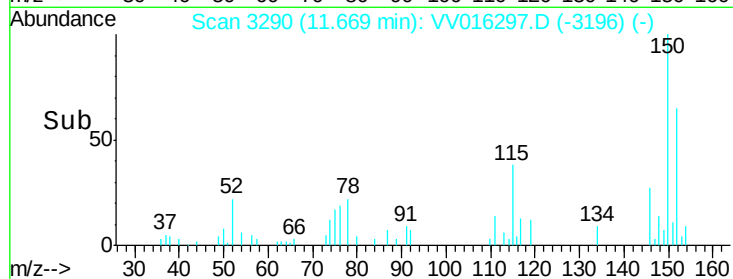
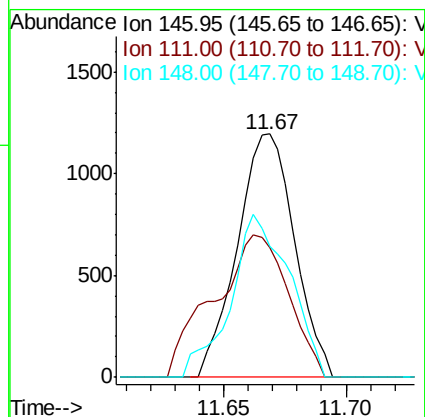
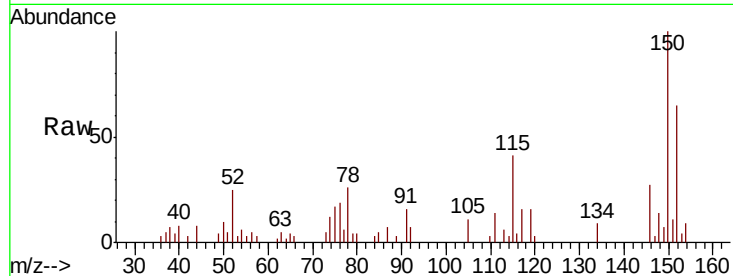




#66
 1,2-Dichlorobenzene
 Concen: 0.177 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.00 min
 Lab File: VV016297.D
 Acq: 29 May 2020 00:18

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:146 Resp: 1942
 Ion Ratio Lower Upper
 146 100
 111 53.3 35.7 53.5
 148 53.8 51.3 76.9



#70
 Naphthalene
 Concen: 0.149 ug/L
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.00 min
 Lab File: VV016297.D
 Acq: 29 May 2020 00:18

Tgt Ion:128 Resp: 2455
 Ion Ratio Lower Upper
 128 100
 129 10.1 8.6 13.0
 127 11.8 10.6 15.8

