

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052720\
 Data File : VV016257.D
 Acq On : 28 May 2020 03:24
 Operator : SY/MD
 Sample : L2766-10
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 28 06:38:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 28 06:30:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	102175	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	96045	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	46937	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25395	3.87	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.40%
7) Chloroethane-d5	1.58	69	24845	4.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.20%
11) 1,1-Dichloroethene-d2	2.13	63	37886	3.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.40%
20) 2-Butanone-d5	3.94	46	78403	48.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.34%
24) Chloroform-d	4.38	84	55022	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.20%
26) 1,2-Dichloroethane-d4	5.06	65	31001	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
32) Benzene-d6	5.08	84	109321	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	6.10	67	33596	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.34	98	97335	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
45) trans-1,3-Dichloropropene-	7.65	79	11012	4.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.20%
48) 2-Hexanone-d5	8.12	63	56773	45.12	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.24%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	24074	4.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	36328	4.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.60%

Target Compounds

					Ovalue
8) Chloroethane	1.60	64	9239	1.848 ug/L #	74
13) Acetone	2.21	43	1413	1.402 ug/L	81
15) Methyl Acetate	2.55	43	18437	7.161 ug/L #	53
17) Methyl tert-butyl Ether	2.79	73	11001	0.741 ug/L #	1
22) cis-1,2-Dichloroethene	3.95	96	492	0.063 ug/L	90
25) Chloroform	4.41	83	10529	0.794 ug/L	98
27) 1,2-Dichloroethane	5.12	62	8214	0.948 ug/L #	79
30) Cyclohexane	4.70	56	4402	0.360 ug/L	98
33) Benzene	5.13	78	838509	30.338 ug/L	100
35) Methylcyclohexane	6.15	83	3749	0.309 ug/L	94
37) 1,2-Dichloropropane	6.10	63	3860	0.569 ug/L #	88
42) Toluene	7.41	91	11285	0.374 ug/L	93
43) 1,3,5-Trimethylbenzene	10.56	105	6977	0.254 ug/L	100
44) 1,2,4-Trimethylbenzene	10.94	105	19933	0.705 ug/L	100
46) trans-1,3-Dichloropropene	7.64	75	566	0.071 ug/L	92
50) 2-Hexanone	8.11	43	8330	2.832 ug/L #	74
53) Chlorobenzene	8.90	112	102058	5.480 ug/L	100

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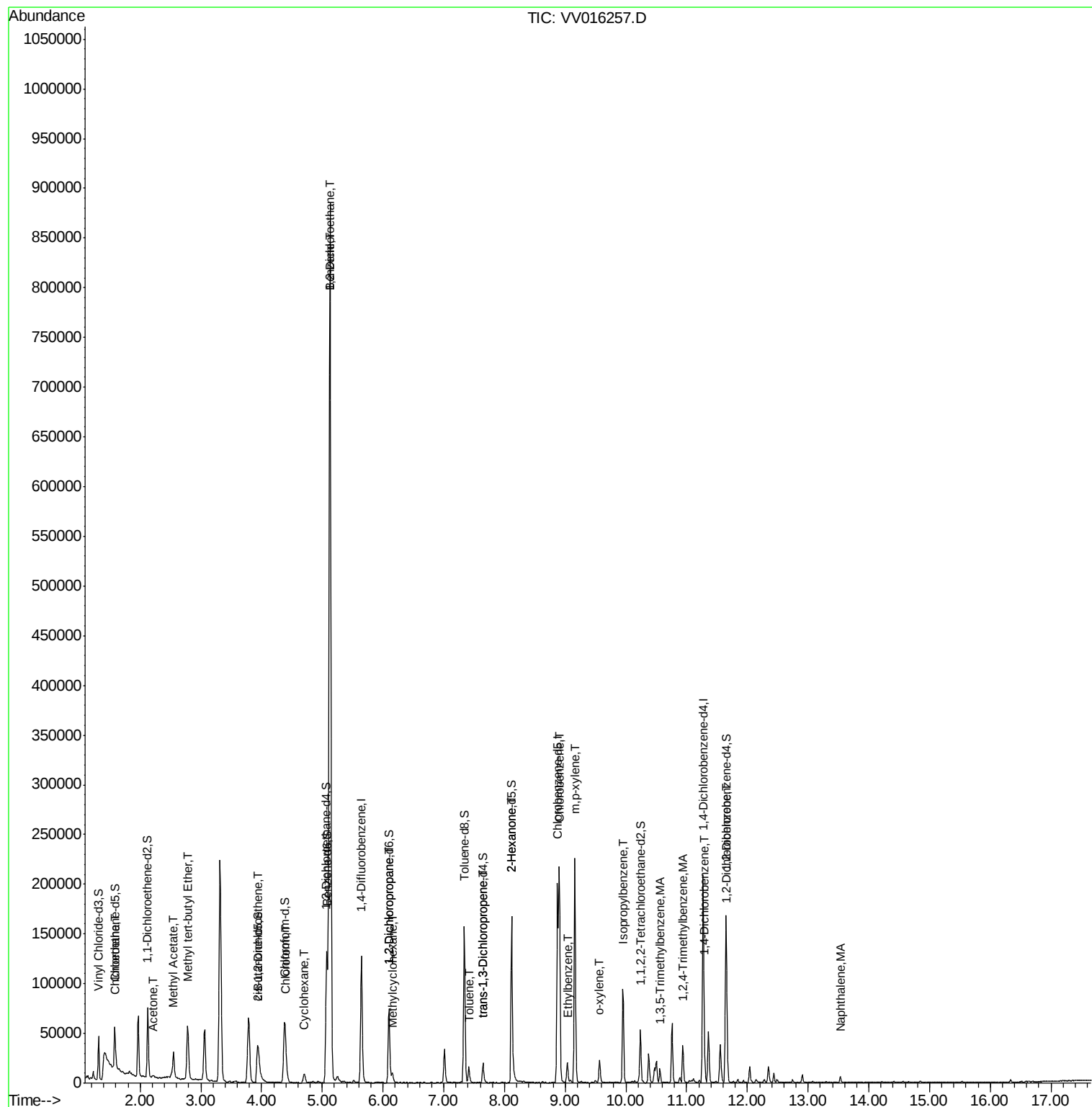
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	9.04	91	14172	0.422	ug/L	97
55) m,p-xylene	9.16	106	59590	4.730	ug/L	98
56) o-xylene	9.57	106	5644	0.470	ug/L	97
58) Isopropylbenzene	9.95	105	55946	1.701	ug/L	99
64) 1,4-Dichlorobenzene	11.30	146	8251	0.567	ug/L	98
66) 1,2-Dichlorobenzene	11.67	146	13579	1.049	ug/L	93
70) Naphthalene	13.53	128	5542	0.285	ug/L #	93

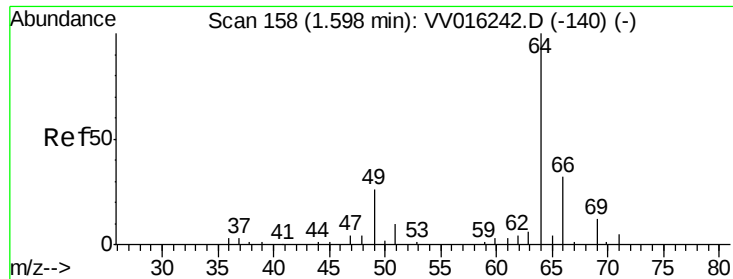
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 1.848 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

Instrument :

MSVOA_V

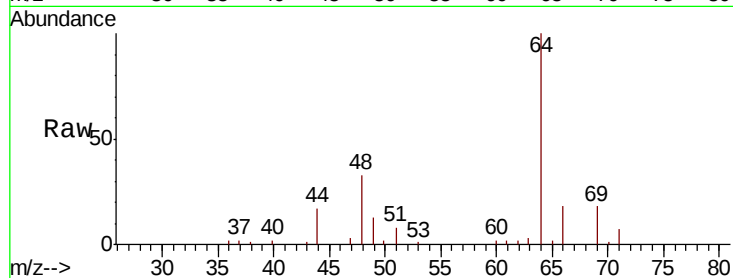
ClientSampled :

Tot Ion: 64 Resp: 9239

Ion Ratio Lower Upper

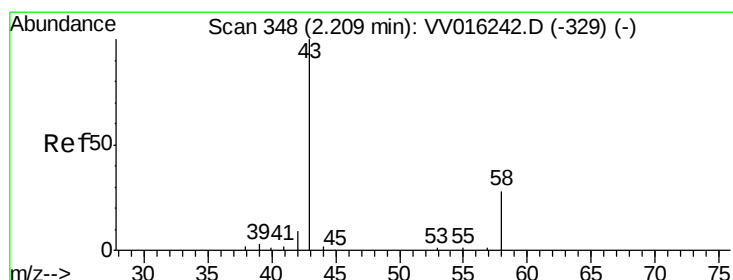
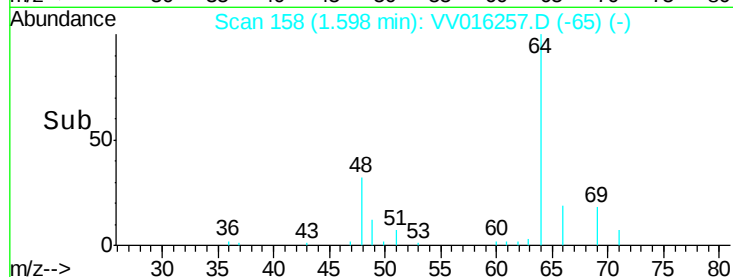
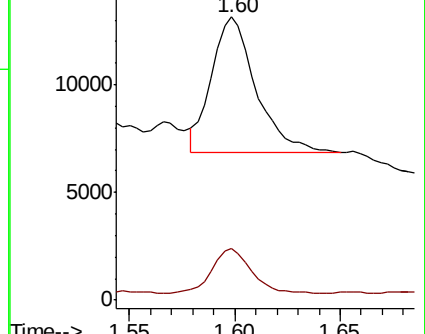
64 100

66 18.1 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: 1.402 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VV016257.D

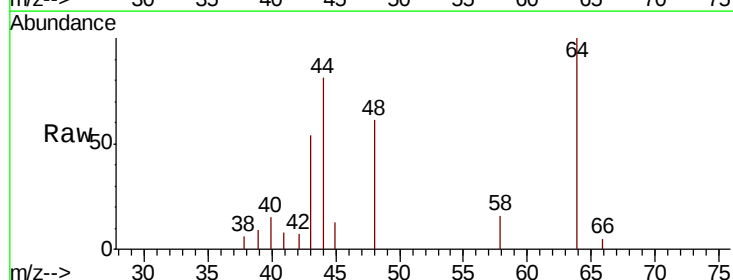
Acq: 28 May 2020 03:24

Tgt Ion: 43 Resp: 1413

Ion Ratio Lower Upper

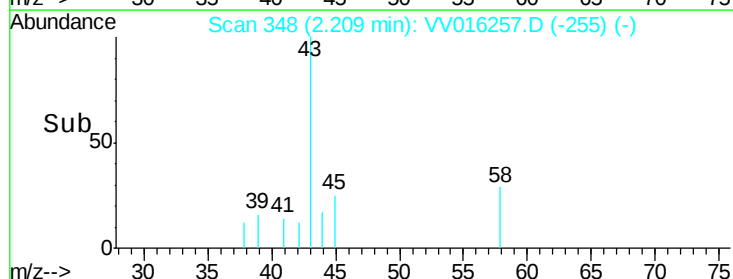
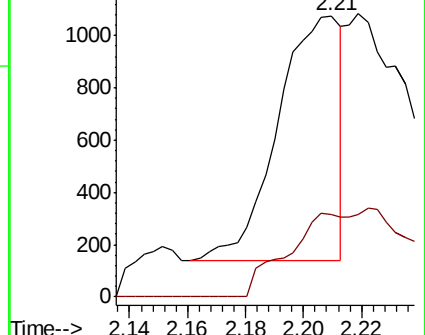
43 100

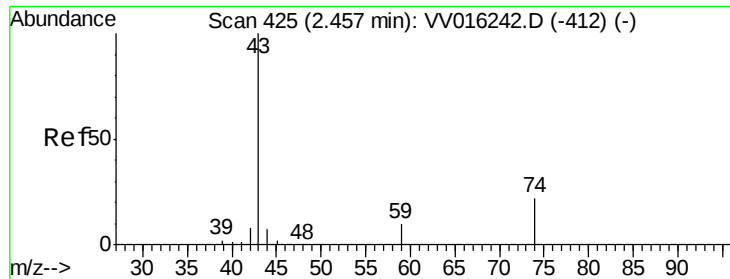
58 33.6 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0





#15

Methyl Acetate

Concen: 7.161 ug/L

RT: 2.55 min Scan# 454

Delta R.T. 0.09 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

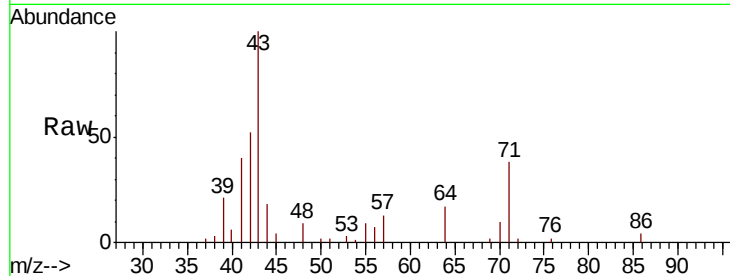
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 18437

Ion Ratio Lower Upper

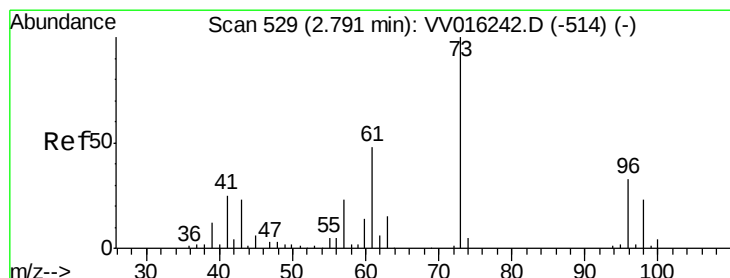
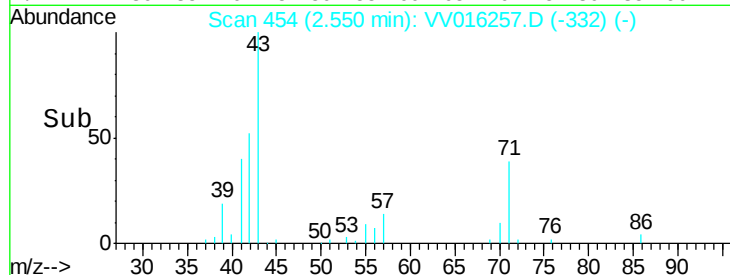
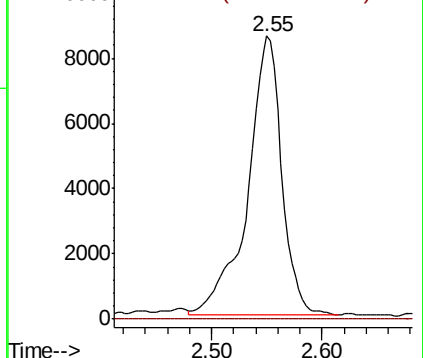
43 100

74 0.0 18.1 27.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#17

Methyl tert-butyl Ether

Concen: 0.741 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

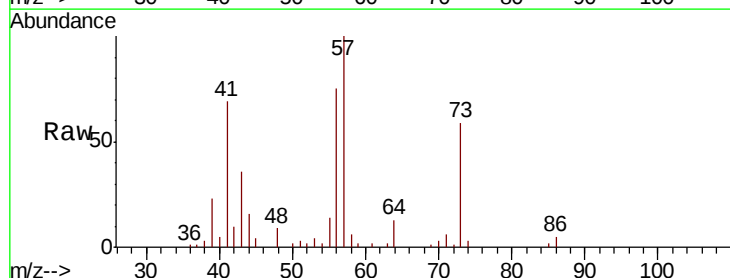
Tgt Ion: 73 Resp: 11001

Ion Ratio Lower Upper

73 100

43 85.6 17.8 26.8#

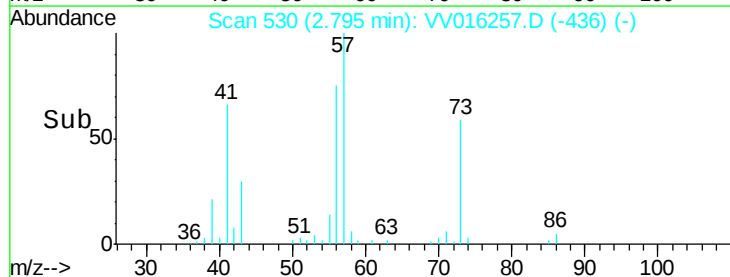
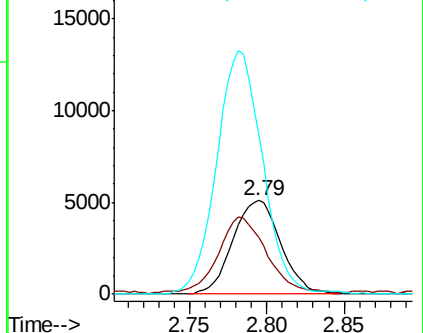
57 249.6 18.9 28.3#

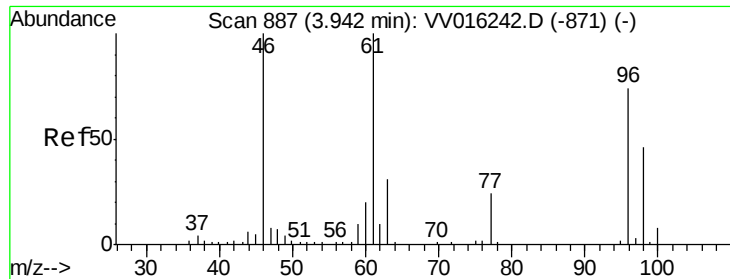


Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0

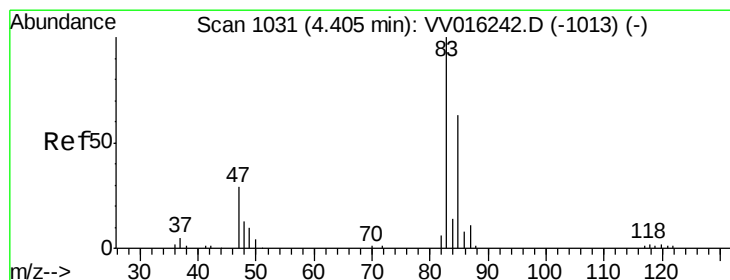
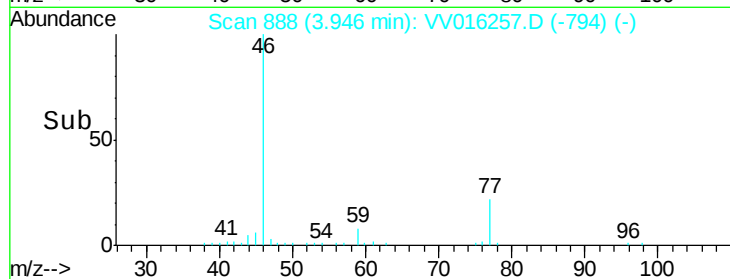
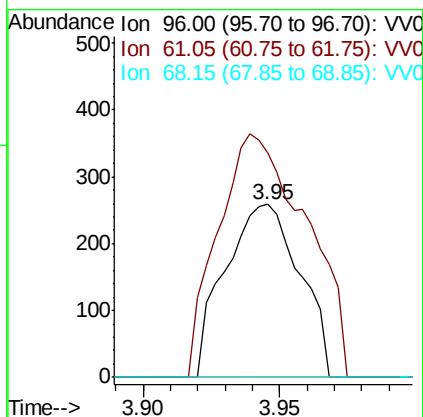
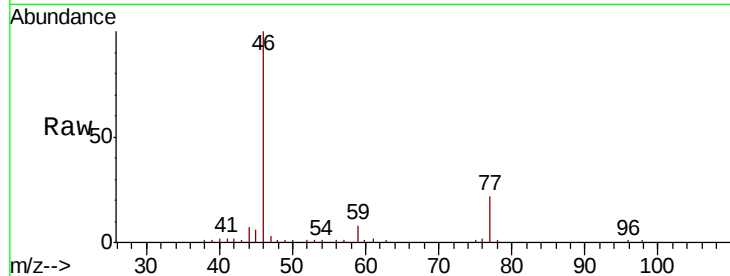




#22
 cis-1,2-Dichloroethene
 Concen: 0.063 ug/L
 RT: 3.95 min Scan# 888
 Delta R.T. 0.00 min
 Lab File: VV016257.D
 Acq: 28 May 2020 03:24

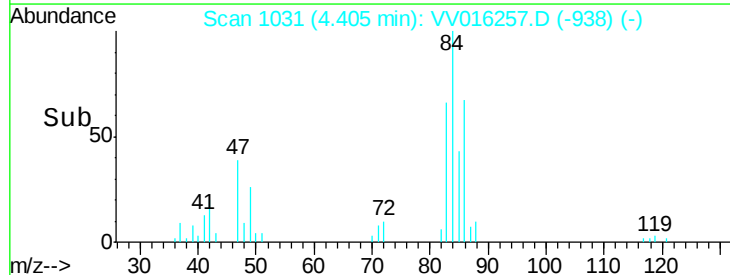
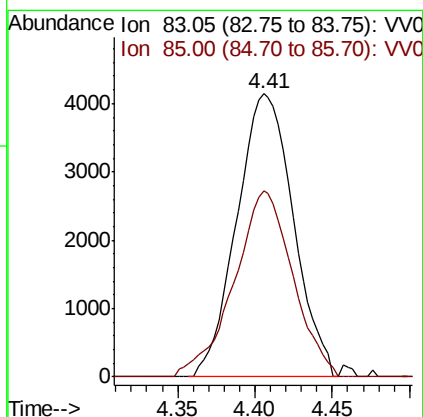
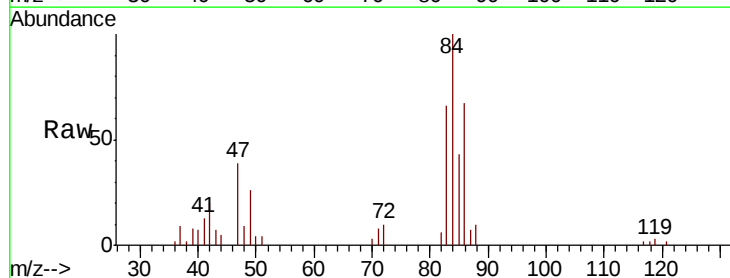
Instrument :
 MSVOA_V
 ClientSampleId :

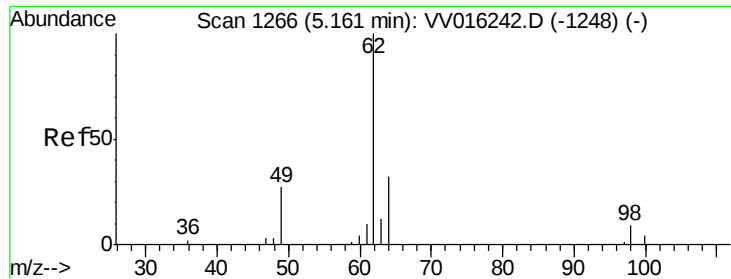
Tot Ion: 96 Resp: 492
 Ion Ratio Lower Upper
 96 100
 61 129.7 99.7 185.1
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 0.794 ug/L
 RT: 4.41 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VV016257.D
 Acq: 28 May 2020 03:24

Tgt Ion: 83 Resp: 10529
 Ion Ratio Lower Upper
 83 100
 85 65.7 45.1 83.7

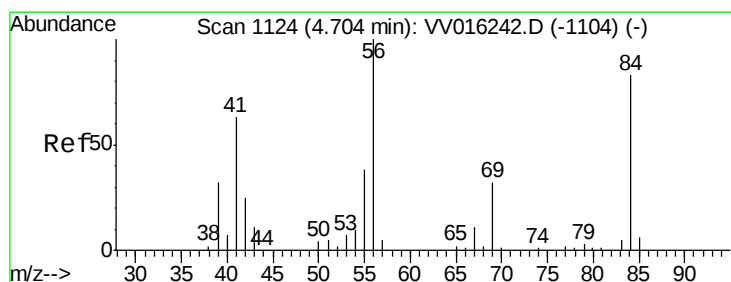
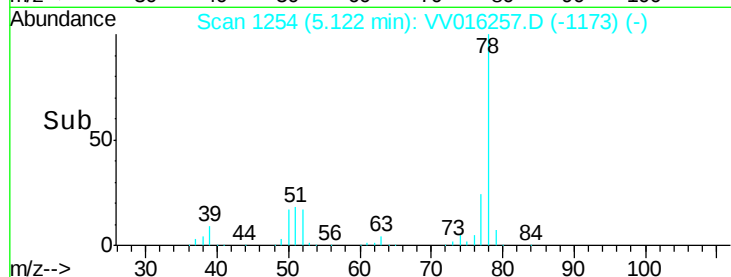
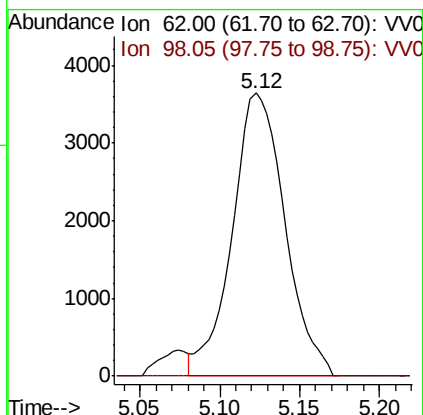
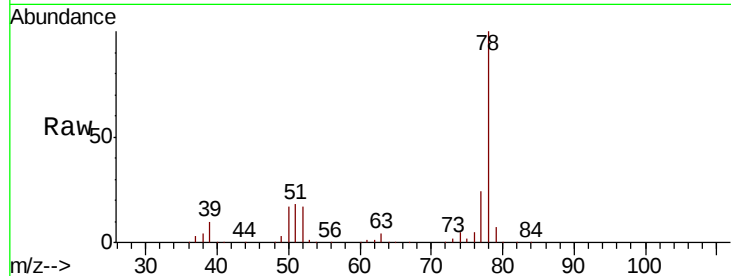




#27
 1,2-Dichloroethane
 Concen: 0.948 ug/L
 RT: 5.12 min Scan# 1254
 Delta R.T. -0.04 min
 Lab File: VV016257.D
 Acq: 28 May 2020 03:24

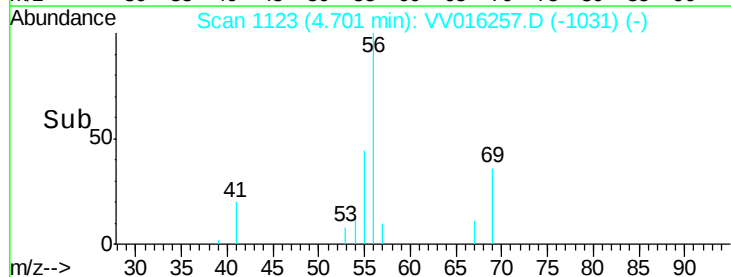
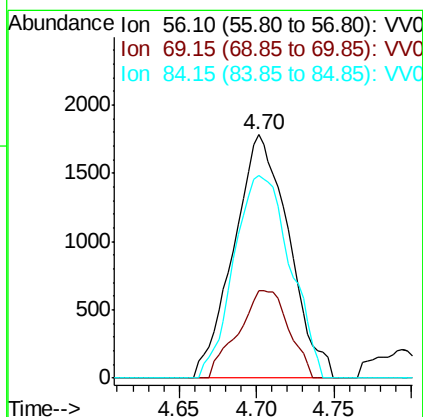
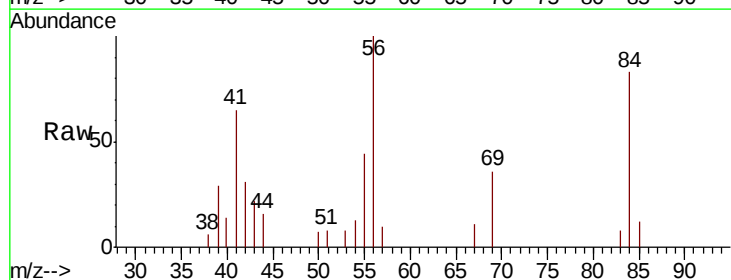
Instrument :
 MSVOA_V
 ClientSampleId :

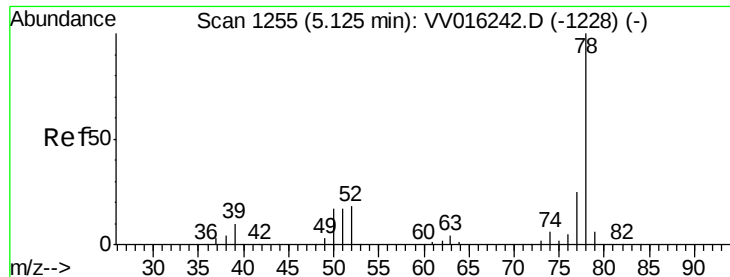
Tot Ion: 62 Resp: 8214
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.7 8.5#



#30
 Cyclohexane
 Concen: 0.360 ug/L
 RT: 4.70 min Scan# 1123
 Delta R.T. -0.00 min
 Lab File: VV016257.D
 Acq: 28 May 2020 03:24

Tgt Ion: 56 Resp: 4402
 Ion Ratio Lower Upper
 56 100
 69 33.1 24.6 36.8
 84 85.2 67.1 100.7





#33

Benzene

Concen: 30.338 ug/L

RT: 5.13 min Scan# 1255

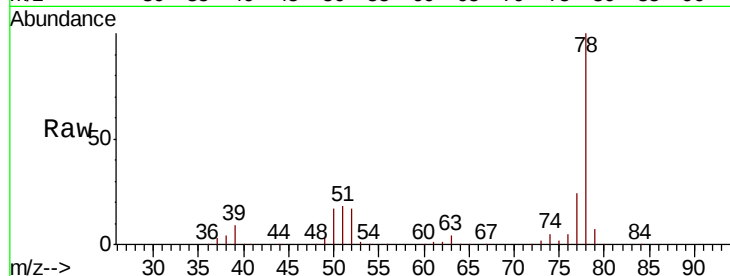
Delta R.T. 0.00 min

Lab File: VV016257.D

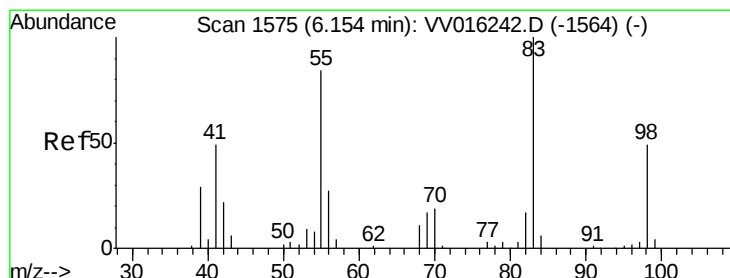
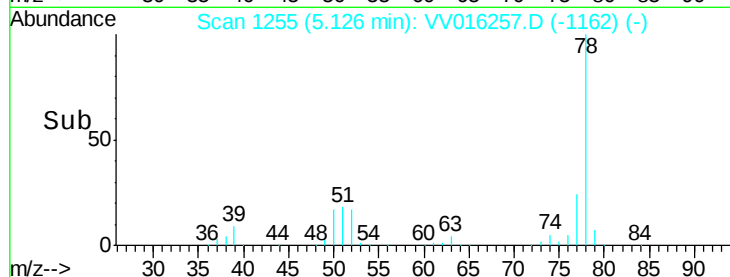
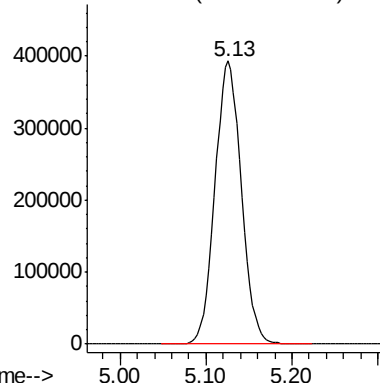
Acq: 28 May 2020 03:24

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 838509



Abundance Ion 78.10 (77.80 to 78.80): VV0



#35

Methylcyclohexane

Concen: 0.309 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VV016257.D

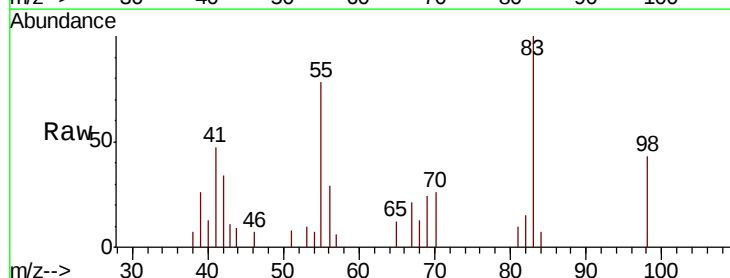
Acq: 28 May 2020 03:24

Tgt Ion: 83 Resp: 3749

Ion	Ratio	Lower	Upper
83	100		

55	86.4	65.4	98.0
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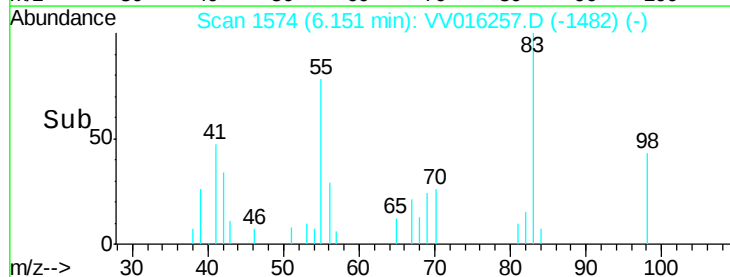
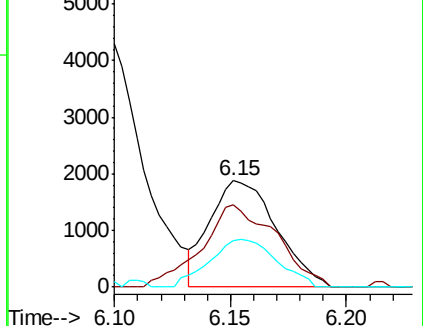
98	44.7	39.3	58.9
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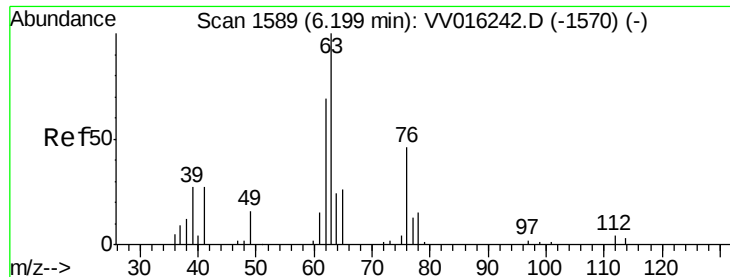


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

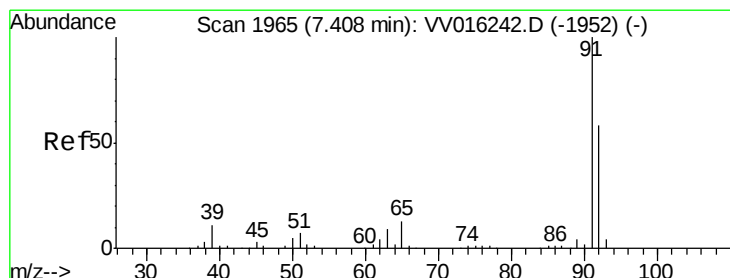
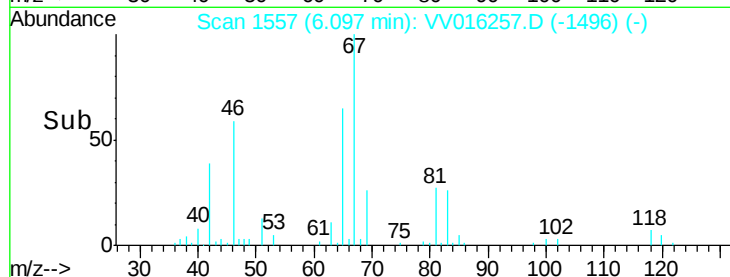
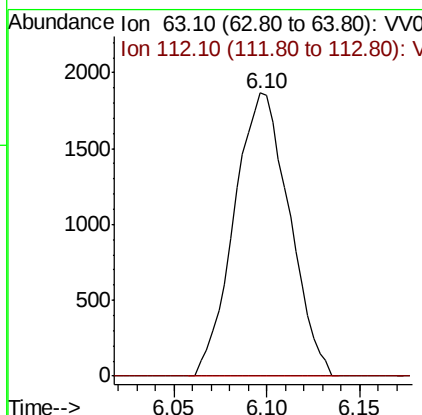
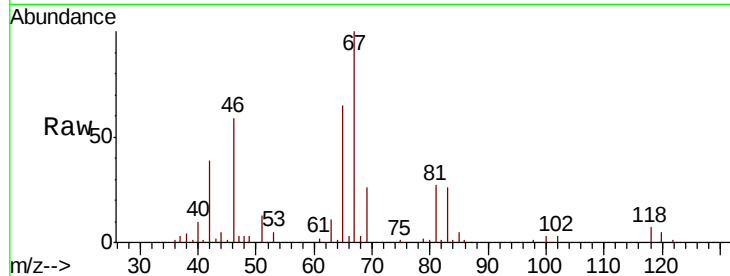




#37
 1,2-Dichloropropane
 Concen: 0.569 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016257.D
 Acq: 28 May 2020 03:24

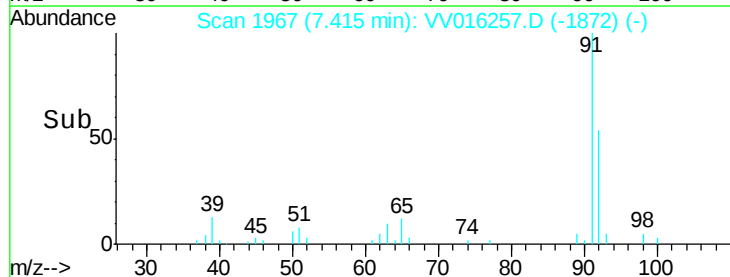
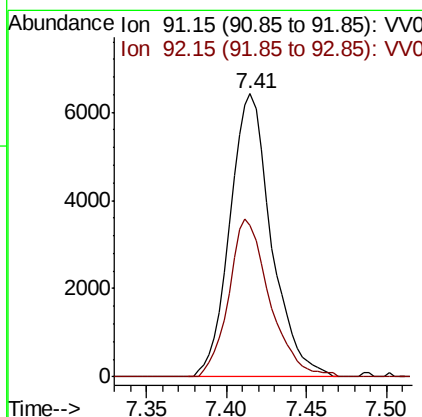
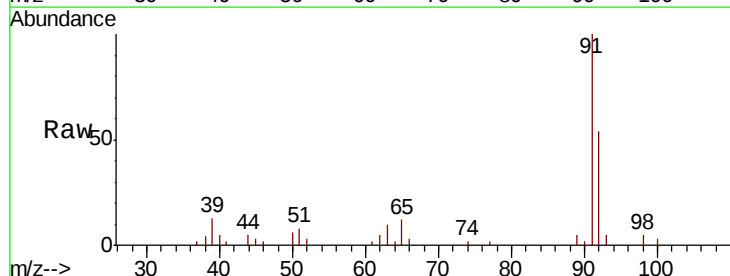
Instrument :
 MSVOA_V
 ClientSampled :

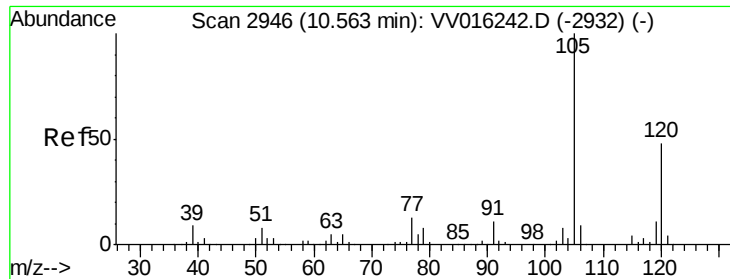
Tot Ion: 63 Resp: 3860
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#42
 Toluene
 Concen: 0.374 ug/L
 RT: 7.41 min Scan# 1967
 Delta R.T. 0.01 min
 Lab File: VV016257.D
 Acq: 28 May 2020 03:24

Tgt Ion: 91 Resp: 11285
 Ion Ratio Lower Upper
 91 100
 92 53.5 40.9 76.0





#43

1,3,5-Trimethylbenzene

Concen: 0.254 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

Instrument :

MSVOA_V

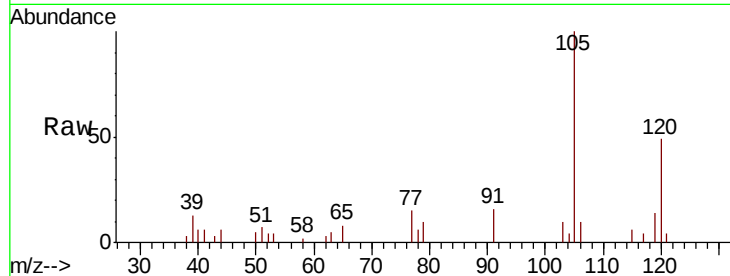
ClientSampleId :

Tot Ion:105 Resp: 6977

Ion Ratio Lower Upper

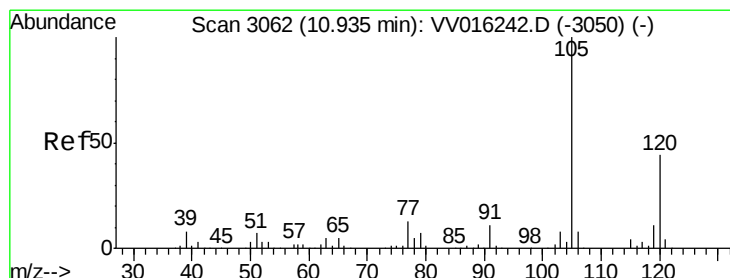
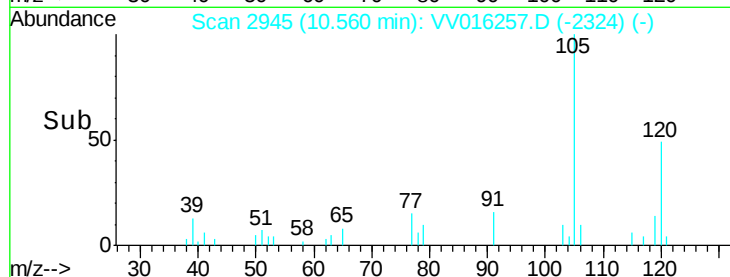
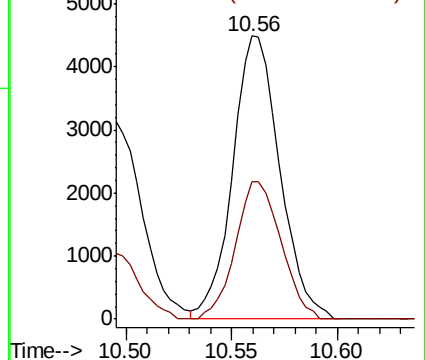
105 100

120 46.9 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: 0.705 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV016257.D

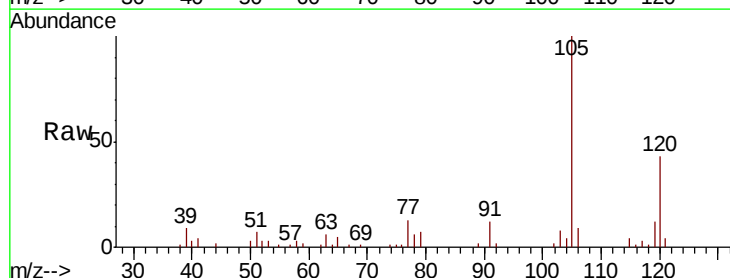
Acq: 28 May 2020 03:24

Tgt Ion:105 Resp: 19933

Ion Ratio Lower Upper

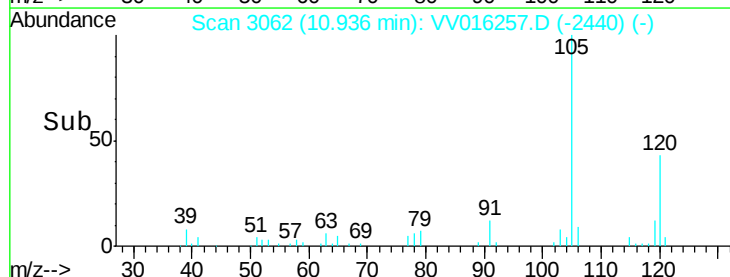
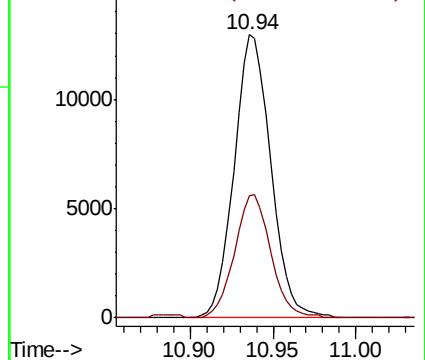
105 100

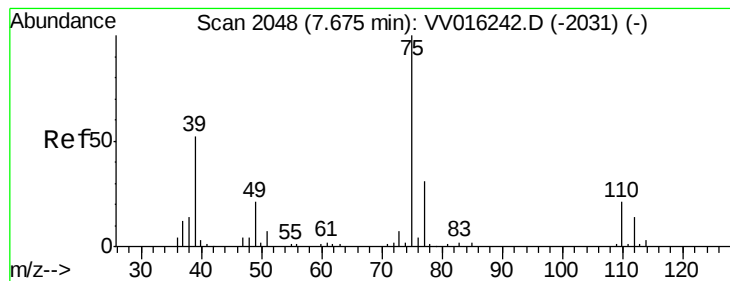
120 43.0 34.6 52.0



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: 0.071 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.04 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

Instrument :

MSVOA_V

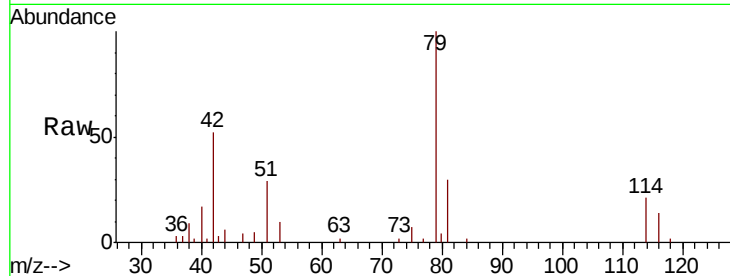
ClientSampleId :

Tot Ion: 75 Resp: 566

Ion Ratio Lower Upper

75 100

77 35.6 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

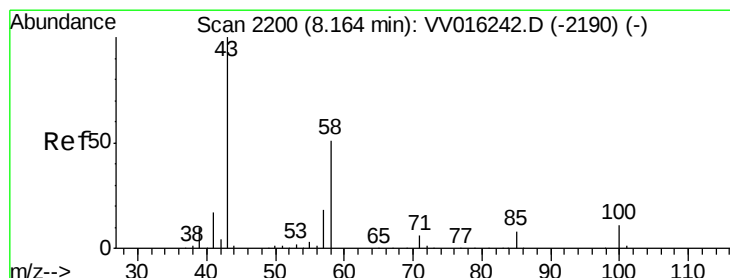
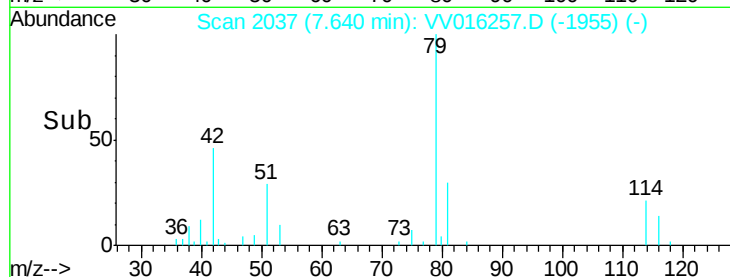
300

200

100

0

Time--> 7.60 7.62 7.64 7.66 7.68



#50

2-Hexanone

Concen: 2.832 ug/L

RT: 8.11 min Scan# 2184

Delta R.T. -0.05 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

Tgt Ion: 43 Resp: 8330

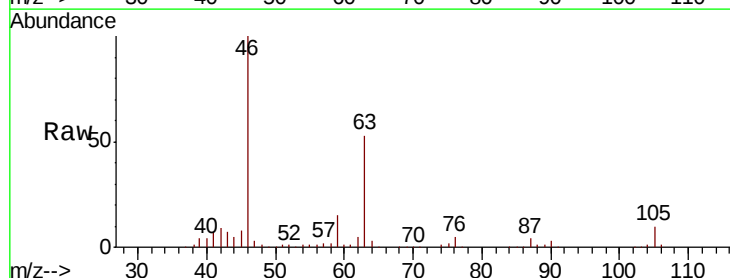
Ion Ratio Lower Upper

43 100

58 30.6 41.4 62.0#

57 25.2 15.0 22.4#

100 0.0 9.0 13.4#



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

8.11

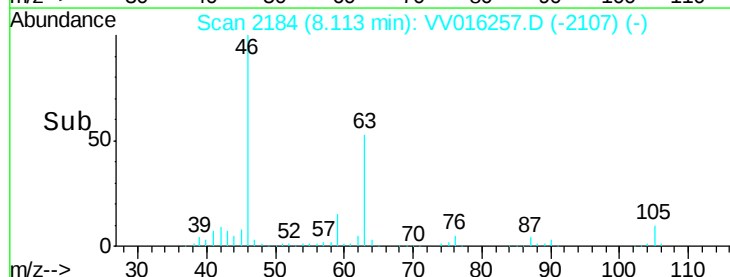
6000

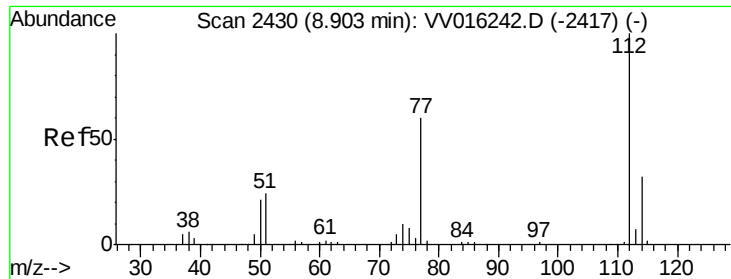
4000

2000

0

Time--> 8.05 8.10 8.15 8.20

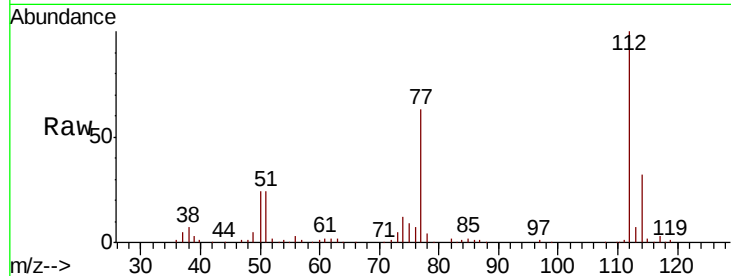




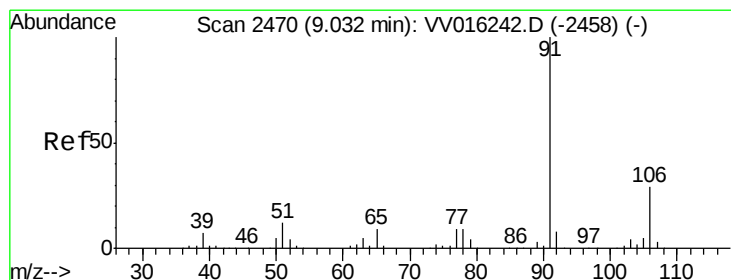
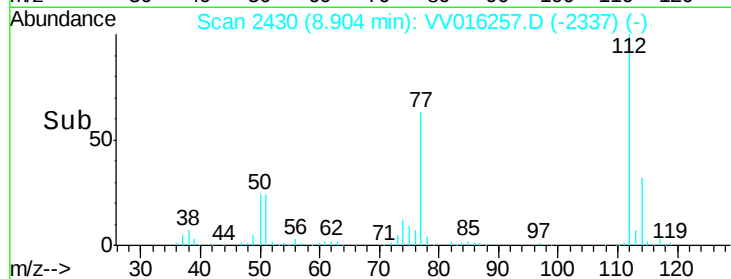
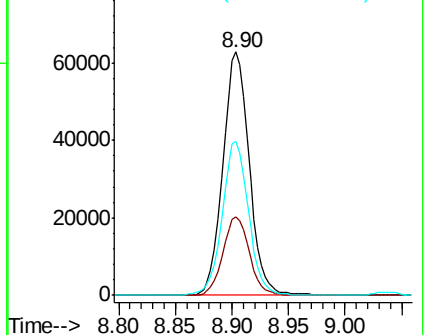
#53
Chlorobenzene
Concen: 5.480 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016257.D
Acq: 28 May 2020 03:24

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:112 Resp: 102058
Ion Ratio Lower Upper
112 100
114 32.2 22.3 41.3
77 63.2 50.7 76.1

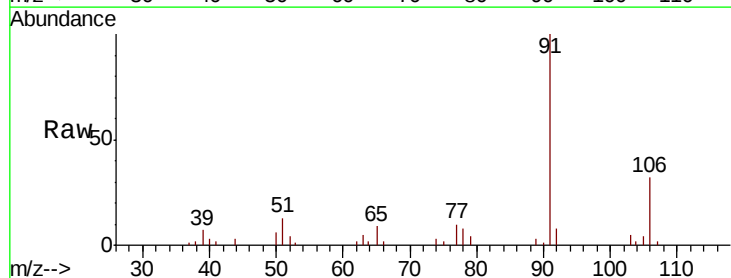


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

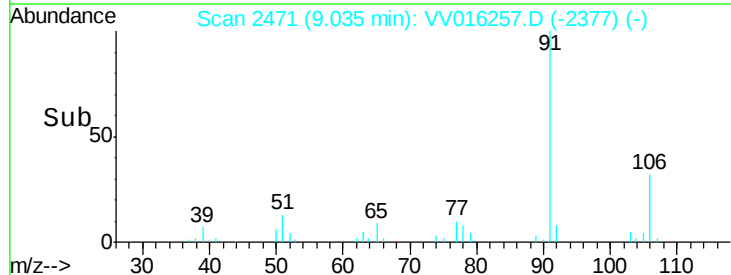
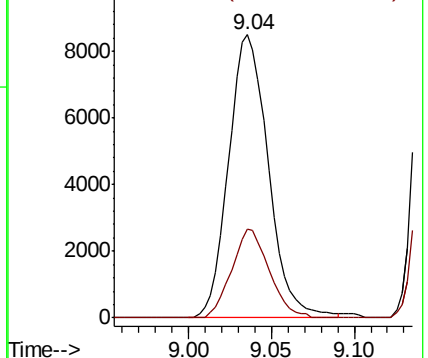


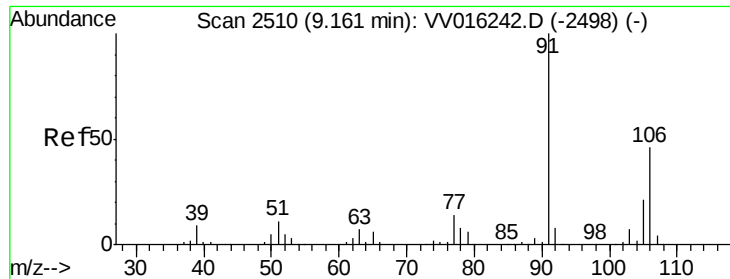
#54
Ethylbenzene
Concen: 0.422 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016257.D
Acq: 28 May 2020 03:24

Tgt Ion: 91 Resp: 14172
Ion Ratio Lower Upper
91 100
106 31.6 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 4.730 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

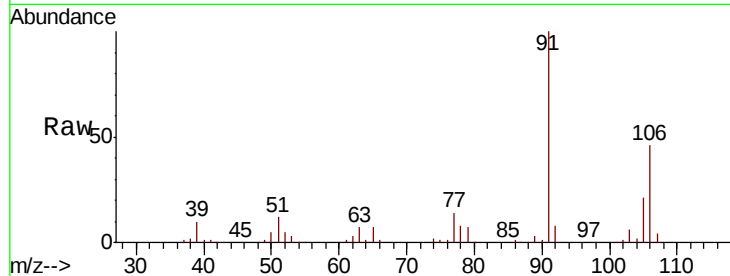
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 59590

Ion Ratio Lower Upper

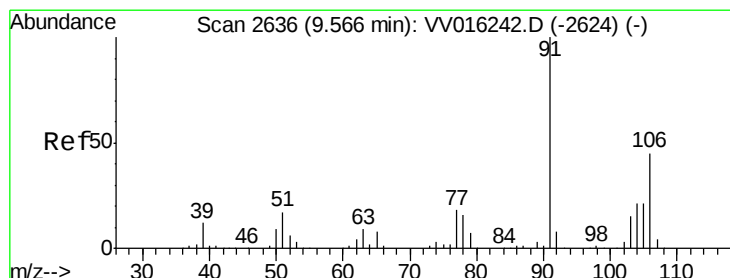
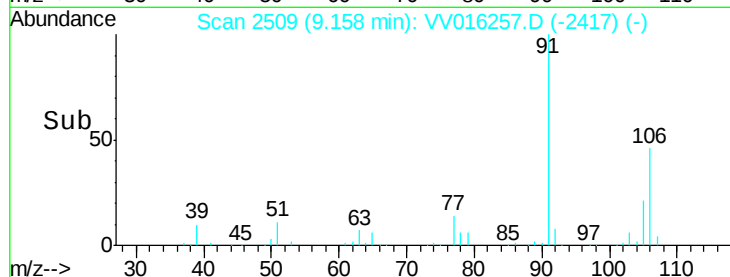
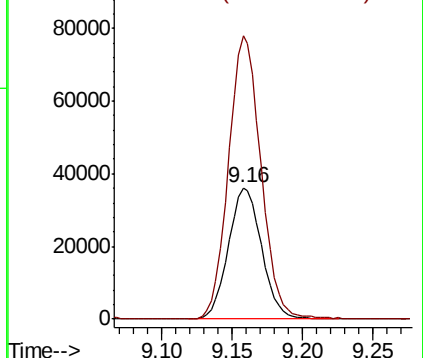
106 100

91 215.4 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 0.470 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016257.D

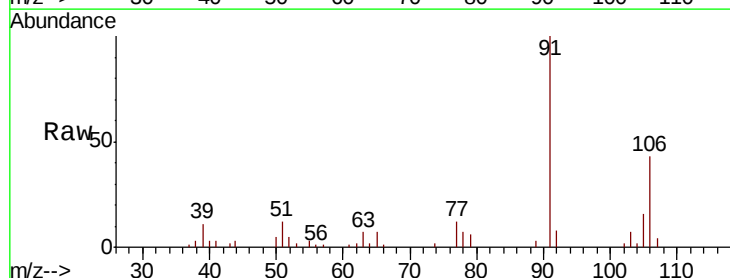
Acq: 28 May 2020 03:24

Tgt Ion:106 Resp: 5644

Ion Ratio Lower Upper

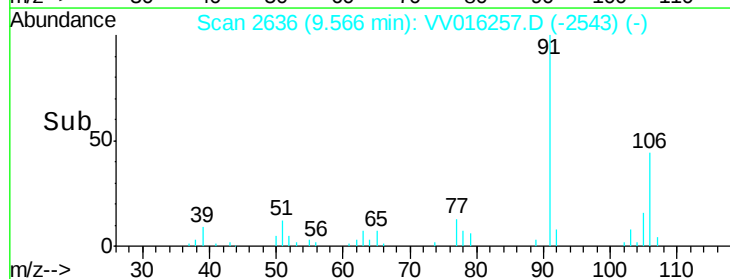
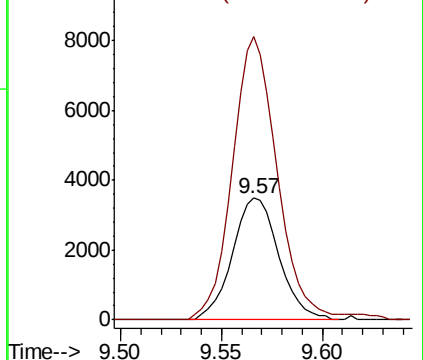
106 100

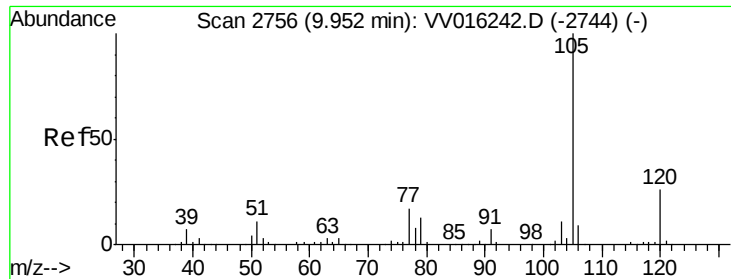
91 232.2 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#58

Isopropylbenzene

Concen: 1.701 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

Instrument :
MSVOA_V
ClientSampleId :

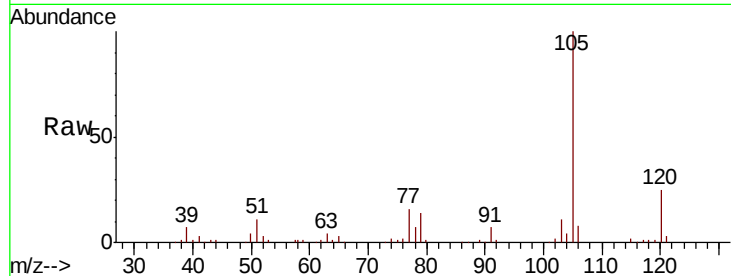
Tot Ion:105 Resp: 55946

Ion Ratio Lower Upper

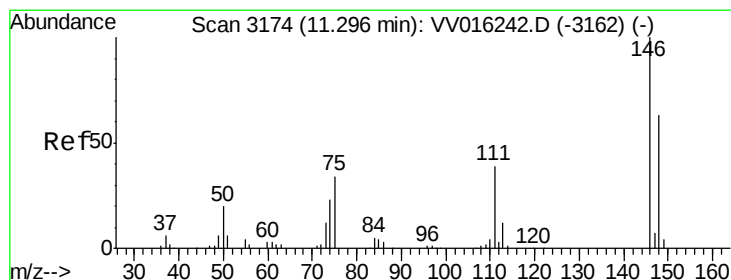
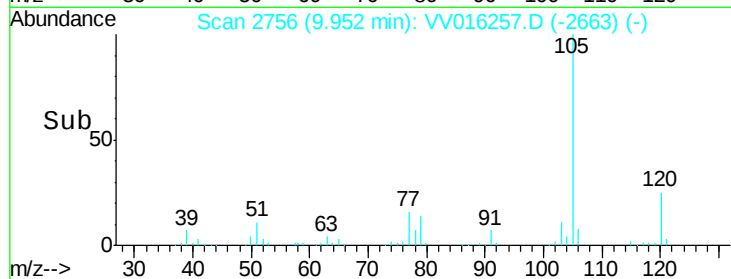
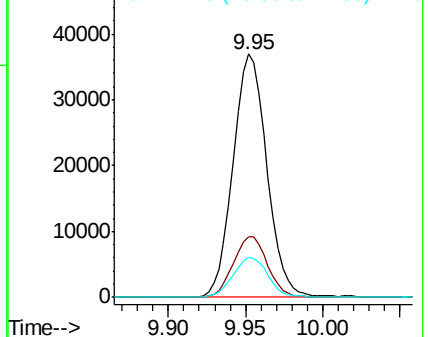
105 100

120 25.3 20.9 31.3

77 17.1 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: 0.567 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

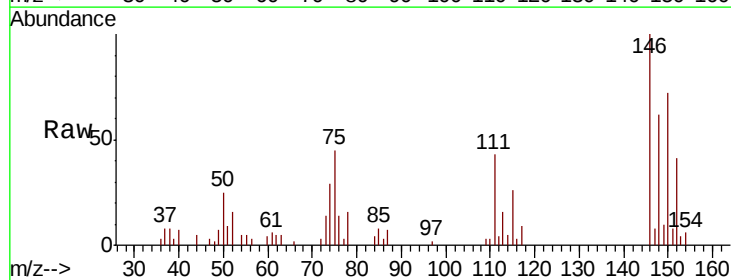
Tgt Ion:146 Resp: 8251

Ion Ratio Lower Upper

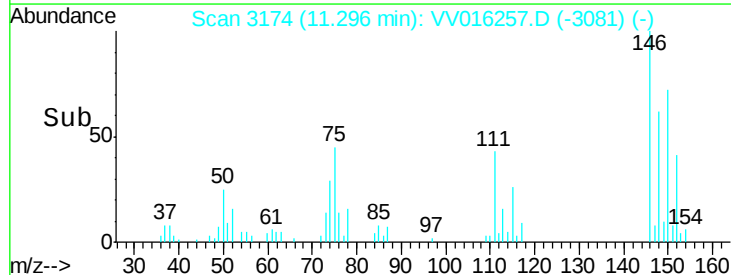
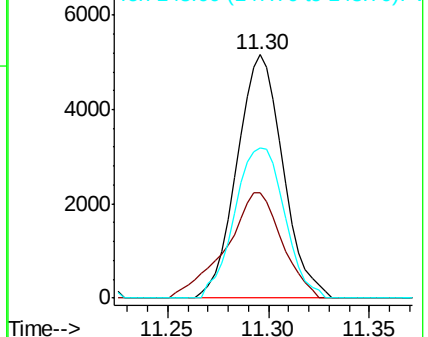
146 100

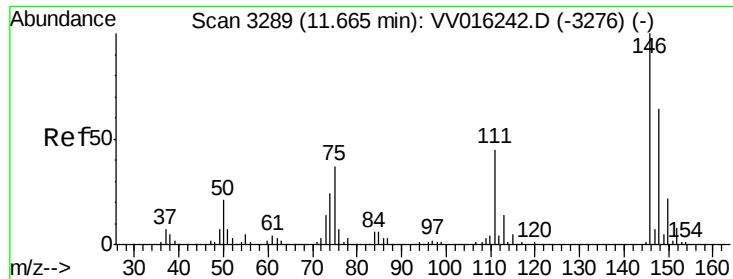
111 43.2 28.3 52.7

148 61.8 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: 1.049 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

Instrument :

MSVOA_V

ClientSampleId :

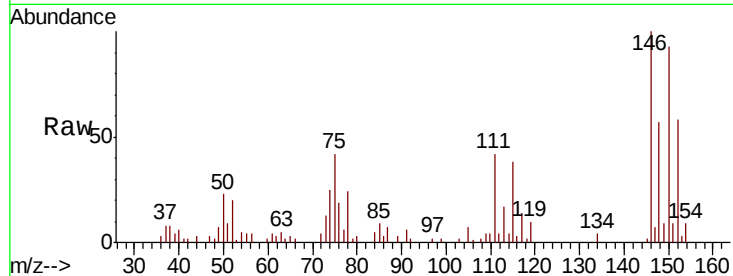
Tot Ion:146 Resp: 13579

Ion Ratio Lower Upper

146 100

111 42.0 35.7 53.5

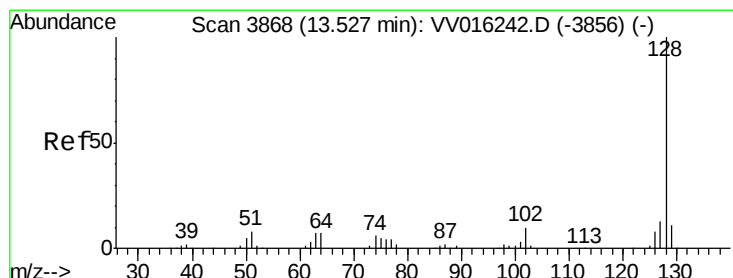
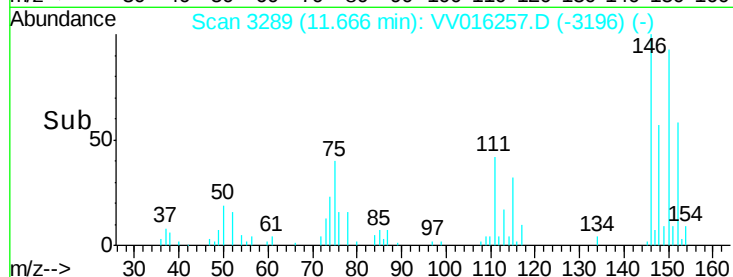
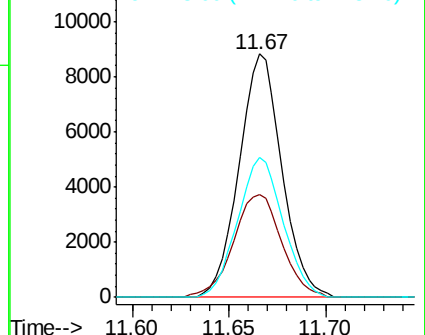
148 57.4 51.3 76.9



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



#70

Naphthalene

Concen: 0.285 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV016257.D

Acq: 28 May 2020 03:24

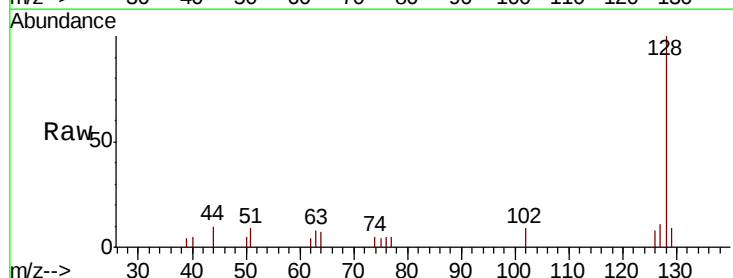
Tgt Ion:128 Resp: 5542

Ion Ratio Lower Upper

128 100

129 8.6 8.6 13.0#

127 9.9 10.6 15.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

