

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016290.D
 Acq On : 28 May 2020 20:57
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 01:19:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 01:10:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	83784	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	82154	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	40494	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	23700	4.40	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.00%
7) Chloroethane-d5	1.58	69	22079	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.40%
11) 1,1-Dichloroethene-d2	2.13	63	49509	4.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.00%
20) 2-Butanone-d5	3.94	46	73636	55.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.34%
24) Chloroform-d	4.38	84	50263	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.80%
26) 1,2-Dichloroethane-d4	5.06	65	28690	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
32) Benzene-d6	5.08	84	101608	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
36) 1,2-Dichloropropane-d6	6.10	67	31821	5.05	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.00%
41) Toluene-d8	7.34	98	97238	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
45) trans-1,3-Dichloropropene-	7.65	79	11069	4.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
48) 2-Hexanone-d5	8.12	63	54887	50.99	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.98%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	23244	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	33849	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	40758	5.526	ug/L	100
3) Chloromethane	1.25	50	42685	5.294	ug/L	99
5) Vinyl chloride	1.32	62	40223	5.482	ug/L	98
6) Bromomethane	1.53	94	19718	4.777	ug/L	99
8) Chloroethane	1.60	64	24245	5.914	ug/L	99
9) Trichlorofluoromethane	1.77	101	51534	5.432	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	28238	5.462	ug/L	99
12) 1,1-Dichloroethene	2.14	96	26403	5.343	ug/L	84
13) Acetone	2.21	43	44501	53.861	ug/L	90
14) Carbon disulfide	2.31	76	80379	5.247	ug/L	99
15) Methyl Acetate	2.46	43	12584	5.960	ug/L	96
16) Methylene chloride	2.53	84	28827	5.088	ug/L	95
17) Methyl tert-butyl Ether	2.79	73	64298	5.284	ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	28267	5.227	ug/L	96
19) 1,1-Dichloroethane	3.21	63	60115	5.852	ug/L	98
21) 2-Butanone	4.02	43	80537	54.796	ug/L	93
22) cis-1,2-Dichloroethene	3.94	96	32748	5.120	ug/L	97

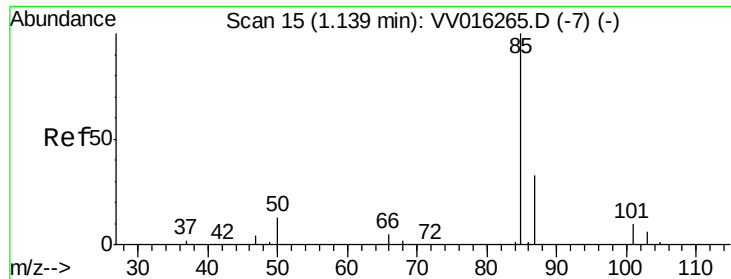
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016290.D
 Acq On : 28 May 2020 20:57
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 ALS Vial : 28 Sample Multiplier: 1

Instrument :
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 ClientSampleId :

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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 01:10:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	13357	5.502	ug/L	97
25) Chloroform	4.41	83	64101	5.896	ug/L	99
27) 1,2-Dichloroethane	5.16	62	38075	5.357	ug/L	98
29) 1,1,1-Trichloroethane	4.64	97	51686	5.301	ug/L	99
30) Cyclohexane	4.70	56	54484	5.214	ug/L	99
31) Carbon tetrachloride	4.86	117	42456	5.139	ug/L	96
33) Benzene	5.13	78	126227	5.339	ug/L	100
34) Trichloroethene	5.94	95	33106	5.375	ug/L	96
35) Methylcyclohexane	6.15	83	53235	5.125	ug/L	99
37) 1,2-Dichloropropane	6.20	63	31327	5.403	ug/L	99
38) Bromodichloromethane	6.53	83	37996	5.326	ug/L	97
39) cis-1,3-Dichloropropene	7.05	75	41573	5.062	ug/L	100
40) 4-Methyl-2-pentanone	7.25	43	196056	54.347	ug/L	99
42) Toluene	7.41	91	138308	5.365	ug/L	98
43) 1,3,5-Trimethylbenzene	10.56	105	124570	5.307	ug/L	99
44) 1,2,4-Trimethylbenzene	10.94	105	128647	5.322	ug/L	100
46) trans-1,3-Dichloropropene	7.68	75	34605	5.072	ug/L	99
47) 1,1,2-Trichloroethane	7.86	97	20937	5.490	ug/L	95
49) Tetrachloroethene	8.00	164	23826	5.389	ug/L	97
50) 2-Hexanone	8.17	43	140650	55.907	ug/L	98
51) Dibromochloromethane	8.27	129	21941	5.432	ug/L	97
52) 1,2-Dibromoethane	8.38	107	18744	5.231	ug/L	98
53) Chlorobenzene	8.90	112	85727	5.381	ug/L	98
54) Ethylbenzene	9.04	91	152975	5.323	ug/L	100
55) m,p-xylene	9.16	106	59242	5.498	ug/L	100
56) o-xylene	9.57	106	54393	5.297	ug/L	99
57) Styrene	9.58	104	94663	5.539	ug/L	97
58) Isopropylbenzene	9.95	105	150275	5.342	ug/L	99
60) 1,1,2,2-Tetrachloroethane	10.26	83	25028	5.279	ug/L	99
62) Bromoform	9.75	173	9412	5.405	ug/L	97
63) 1,3-Dichlorobenzene	11.20	146	65719	5.318	ug/L	97
64) 1,4-Dichlorobenzene	11.30	146	65550	5.220	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	59989	5.371	ug/L	99
67) 1,2-Dibromo-3-chloropropan	12.45	75	3914	5.188	ug/L	98
68) 1,3,5-Trichlorobenzene	12.67	180	46055	5.266	ug/L	99
69) 1,2,4-trichlorobenzene	13.29	180	38777	5.049	ug/L	98
70) Naphthalene	13.53	128	76659	4.569	ug/L	99
71) 1,2,3-Trichlorobenzene	13.77	180	35460	5.120	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.526 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

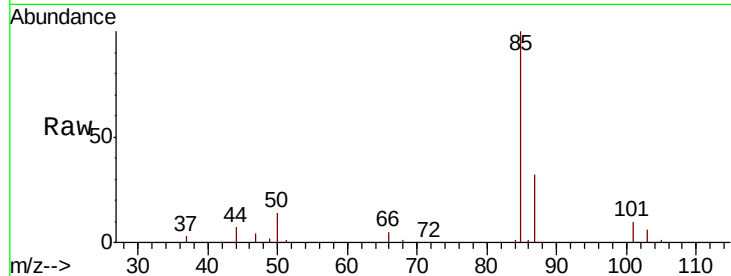
ClientSampleId :

Tot Ion: 85 Resp: 40758

Ion Ratio Lower Upper

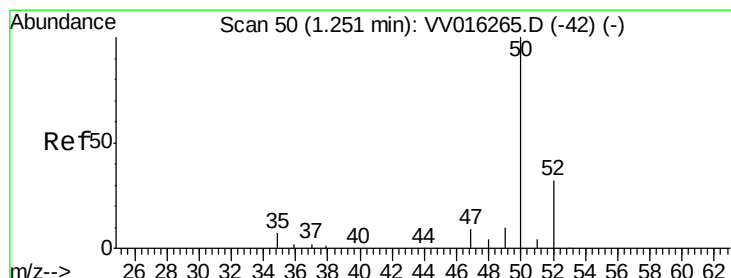
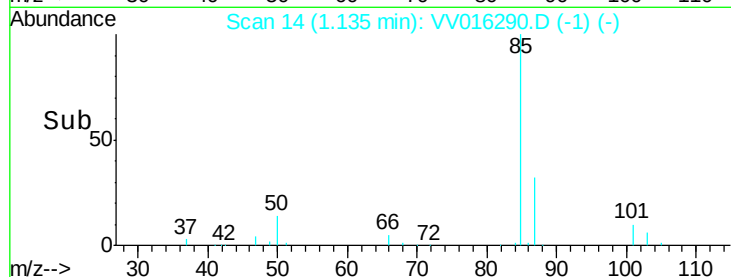
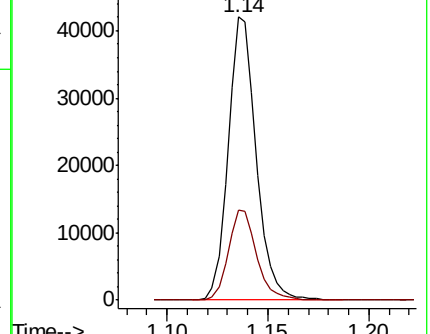
85 100

87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV016265.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV016290.D (-1) (-)



#3

Chloromethane

Concen: 5.294 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV016290.D

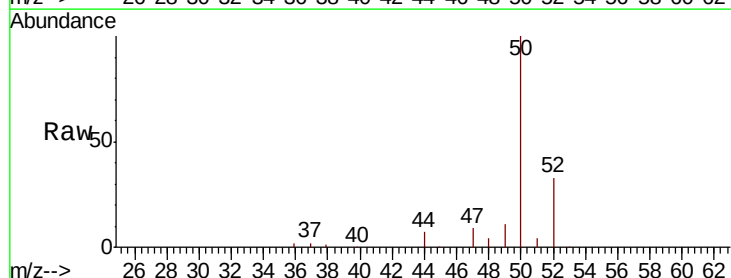
Acq: 28 May 2020 20:57

Tgt Ion: 50 Resp: 42685

Ion Ratio Lower Upper

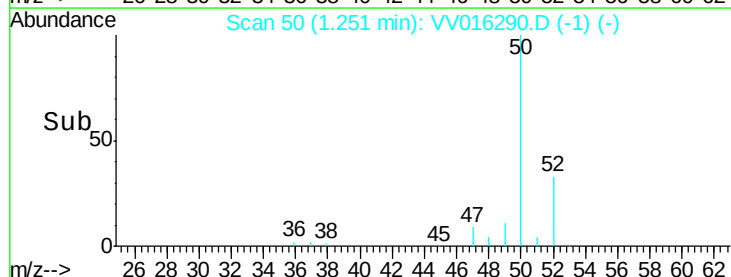
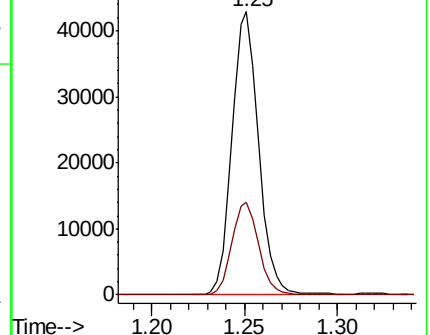
50 100

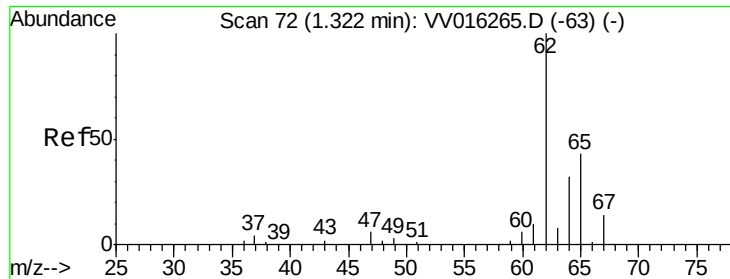
52 32.6 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV016265.D (-42) (-)

Ion 52.05 (51.75 to 52.75): VV016290.D (-1) (-)





#5

Vinyl chloride

Concen: 5.482 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

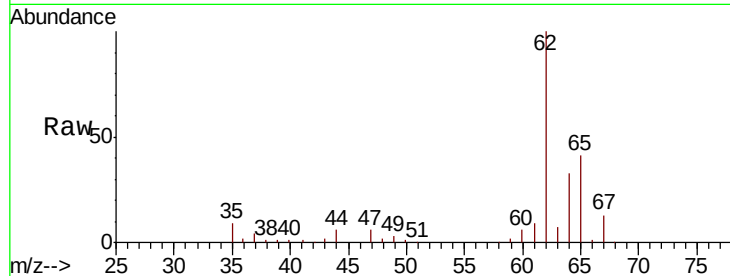
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 40223

Ion Ratio Lower Upper

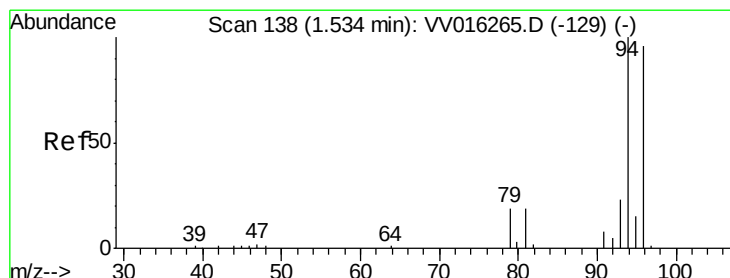
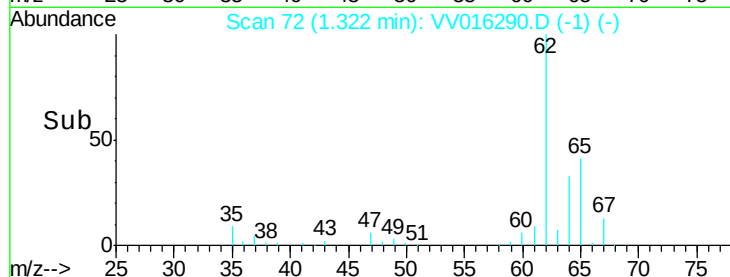
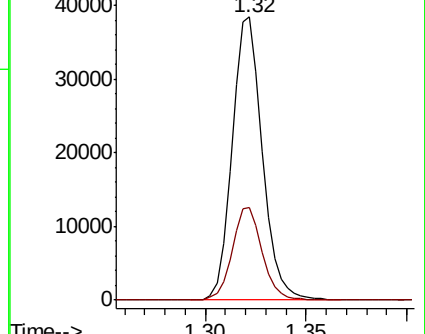
62 100

64 32.7 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 4.777 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV016290.D

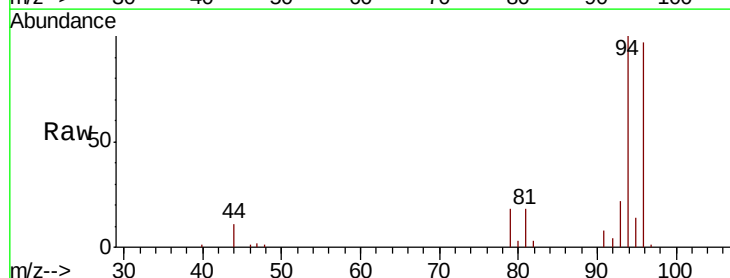
Acq: 28 May 2020 20:57

Tgt Ion: 94 Resp: 19718

Ion Ratio Lower Upper

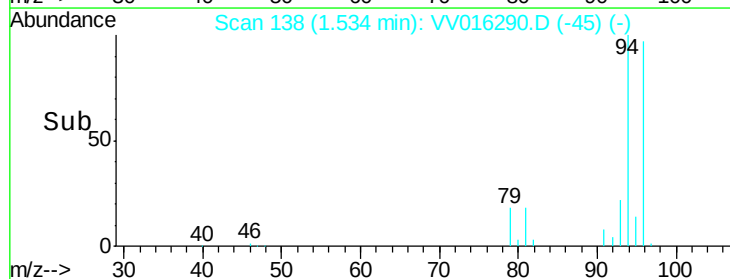
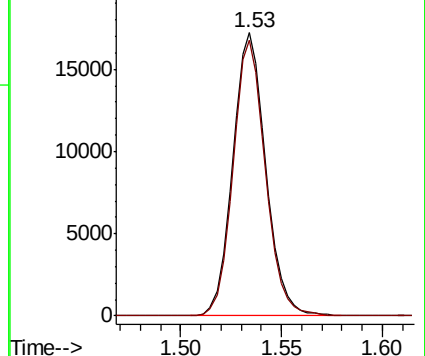
94 100

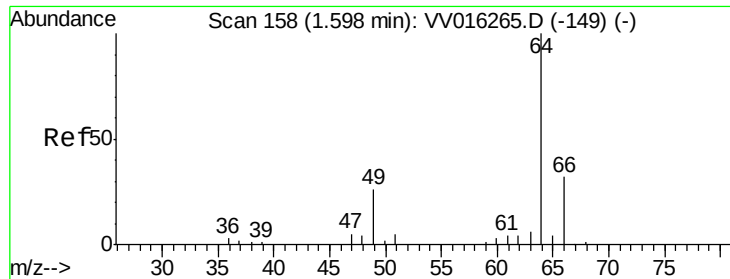
96 97.5 67.7 125.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

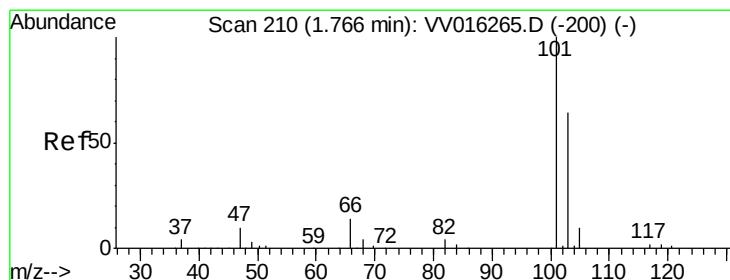
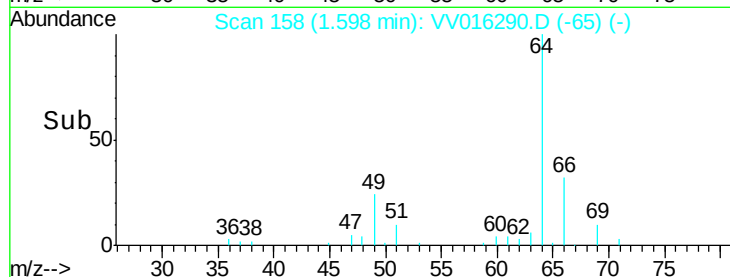
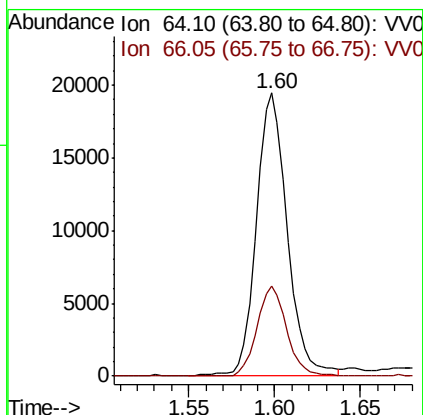
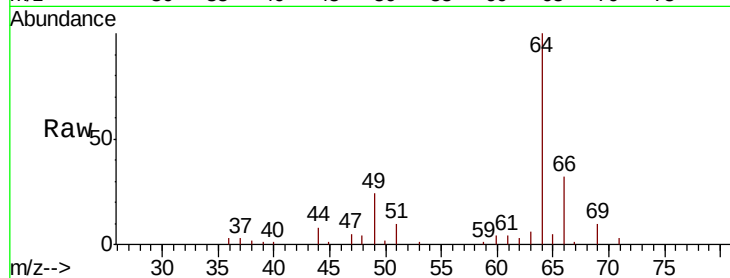




#8
Chloroethane
Concen: 5.914 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV016290.D
Acq: 28 May 2020 20:57

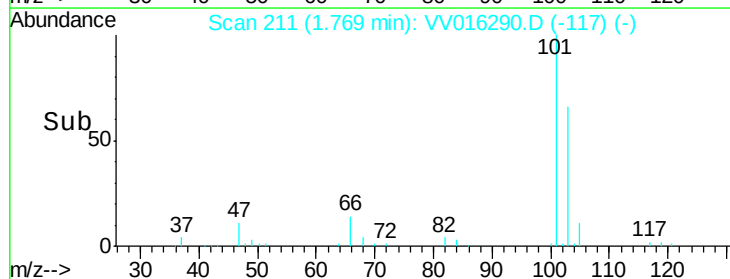
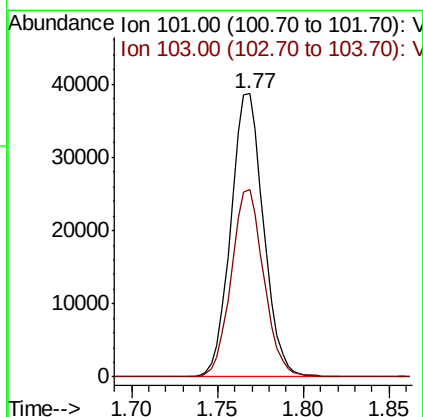
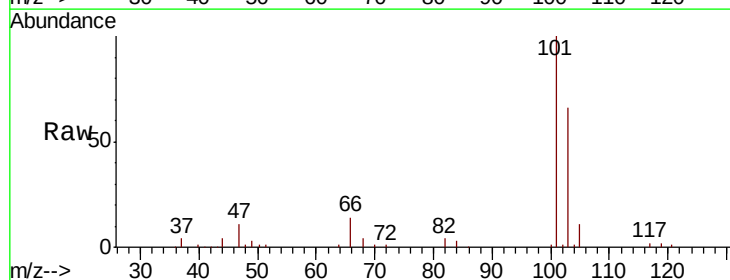
Instrument :
MSVOA_V
ClientSampleId :

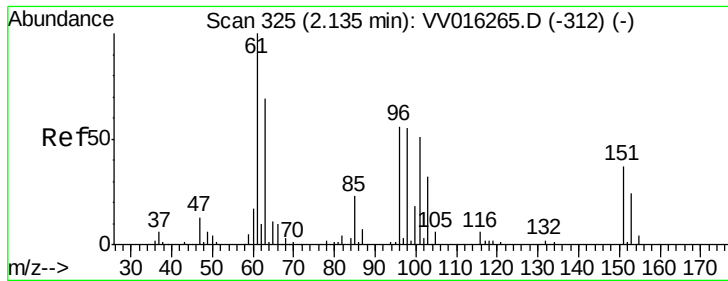
Tot Ion: 64 Resp: 24245
Ion Ratio Lower Upper
64 100
66 31.9 22.9 42.5



#9
Trichlorofluoromethane
Concen: 5.432 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV016290.D
Acq: 28 May 2020 20:57

Tgt Ion:101 Resp: 51534
Ion Ratio Lower Upper
101 100
103 65.9 51.9 77.9





#10

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

Concen: 5.462 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

ClientSampled :

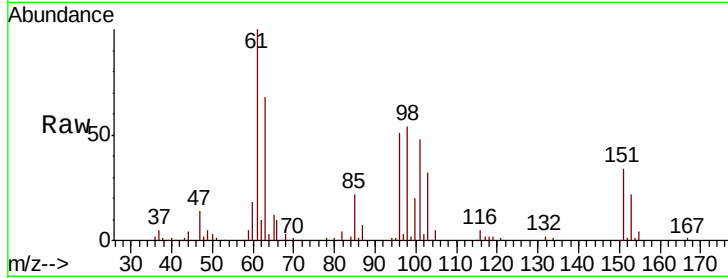
Tot Ion:101 Resp: 28238

Ion Ratio Lower Upper

101 100

85 44.2 35.0 52.6

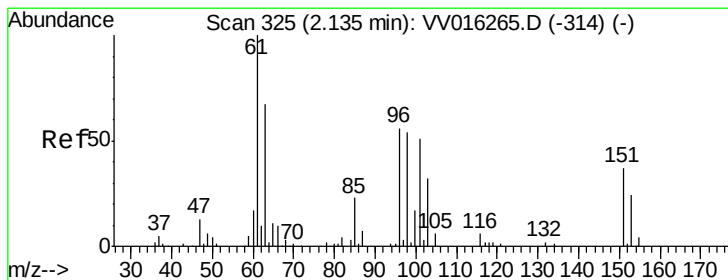
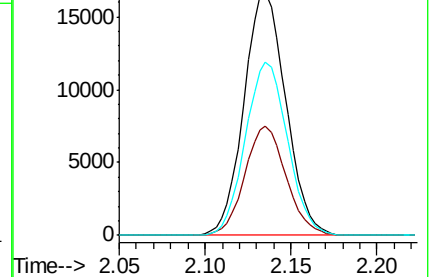
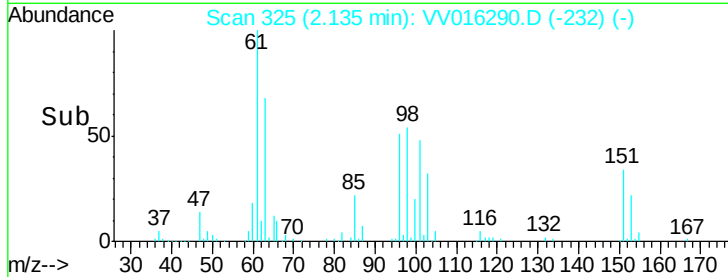
151 71.7 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): VV016290.D (-232) (-)

Ion 85.00 (84.70 to 85.70): VV016290.D (-232) (-)

Ion 151.00 (150.70 to 151.70): VV016290.D (-232) (-)



#12

1,1-Dichloroethene

Concen: 5.343 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

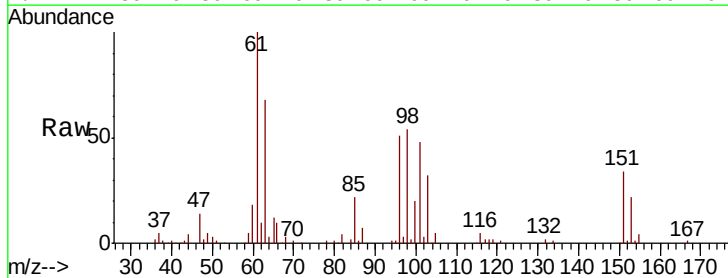
Tgt Ion: 96 Resp: 26403

Ion Ratio Lower Upper

96 100

61 197.6 124.9 231.9

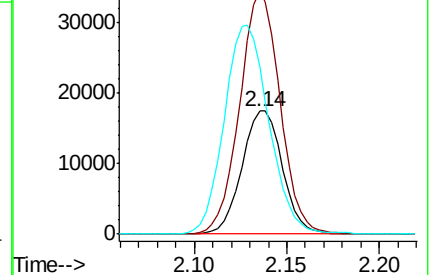
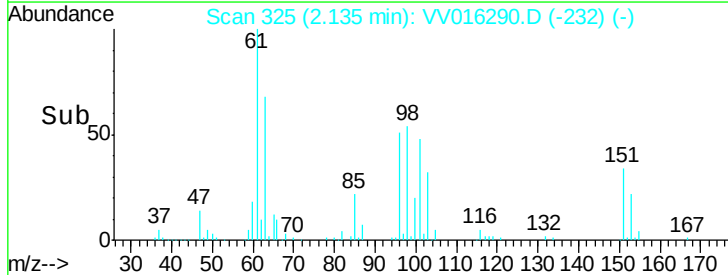
63 135.0 80.4 149.2

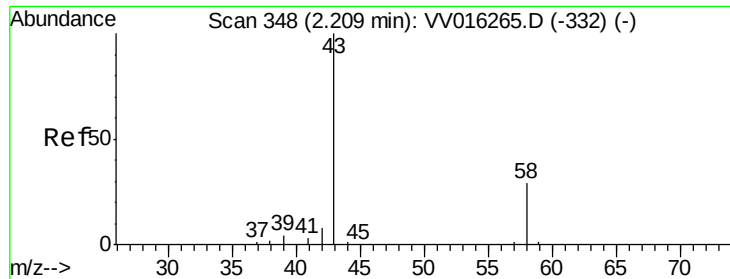


Abundance Ion 96.00 (95.70 to 96.70): VV016290.D (-232) (-)

Ion 61.05 (60.75 to 61.75): VV016290.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV016290.D (-232) (-)





#13

Acetone

Concen: 53.861 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

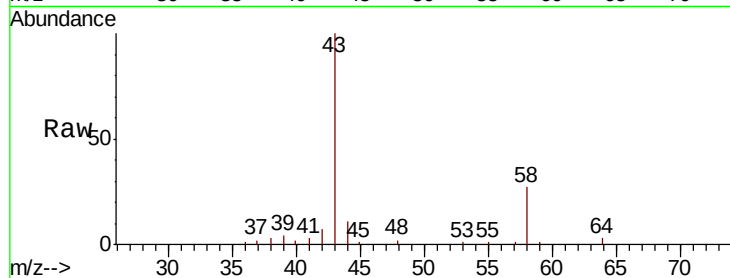
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 44501

Ion Ratio Lower Upper

43 100

58 29.4 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV016290.D (-255) (-)

Ion 58.05 (57.75 to 58.75): VV016290.D (-255) (-)

2.21

15000

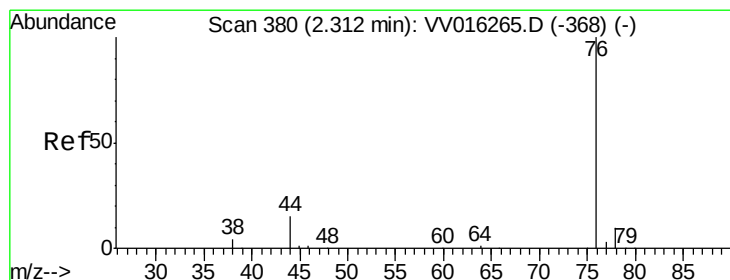
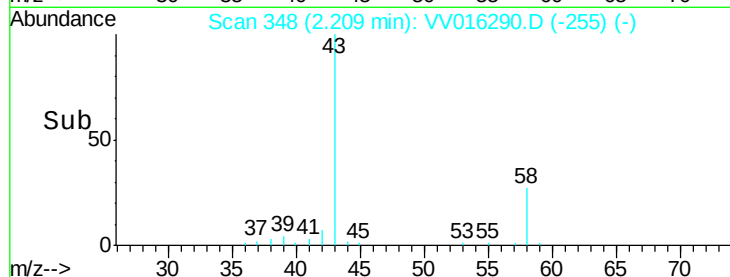
10000

5000

0

Time-->

2.10 2.20 2.30



#14

Carbon disulfide

Concen: 5.247 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV016290.D

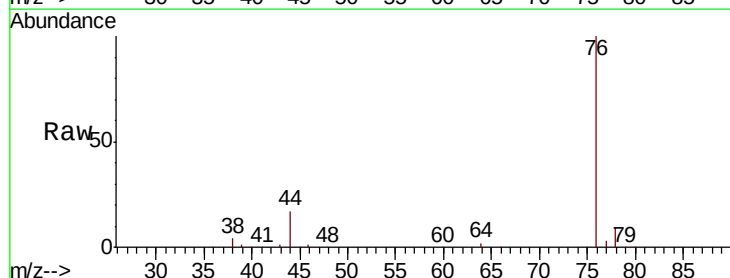
Acq: 28 May 2020 20:57

Tgt Ion: 76 Resp: 80379

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV016290.D (-287) (-)

Ion 78.00 (77.70 to 78.70): VV016290.D (-287) (-)

2.31

60000

50000

40000

30000

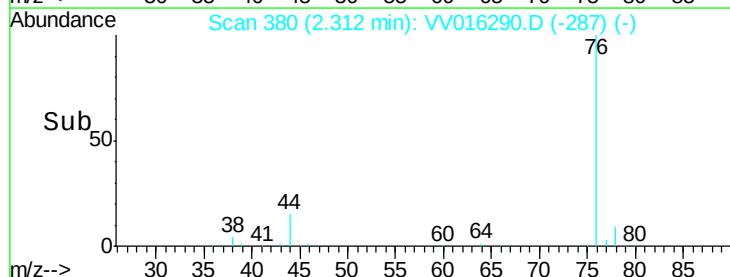
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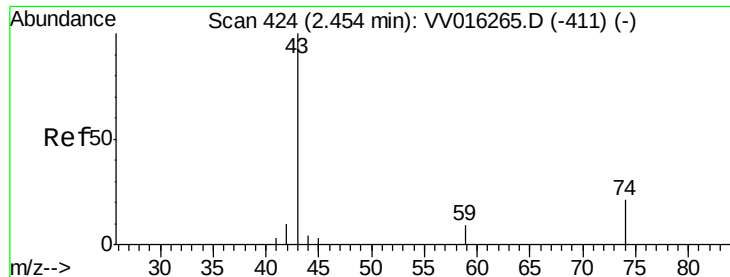
10000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methvl Acetate

Concen: 5.960 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

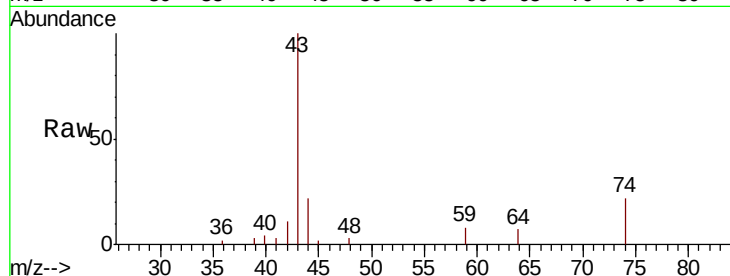
ClientSampleId :

Tot Ion: 43 Resp: 12584

Ion Ratio Lower Upper

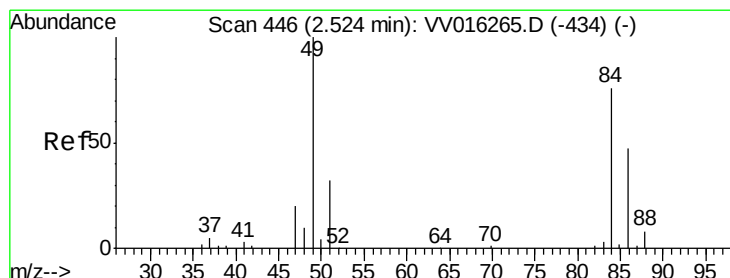
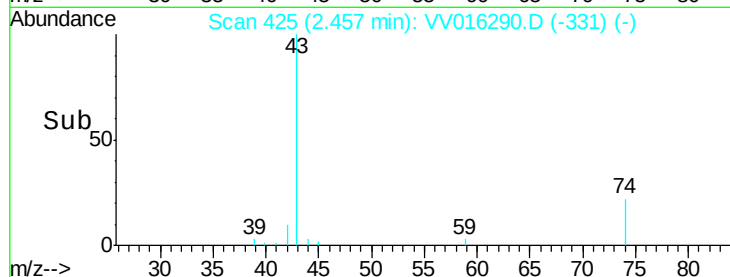
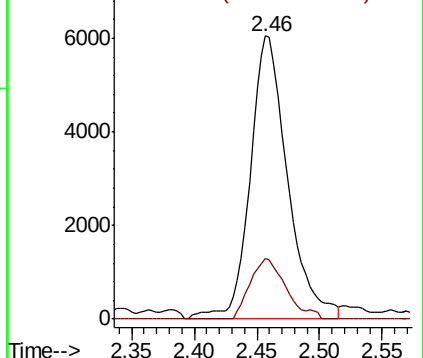
43 100

74 20.5 18.1 27.1



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 5.088 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

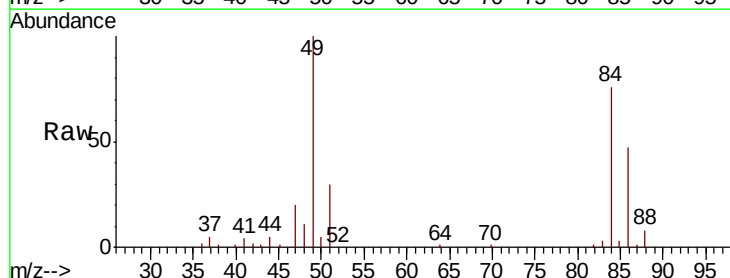
Tgt Ion: 84 Resp: 28827

Ion Ratio Lower Upper

84 100

86 61.1 44.9 83.5

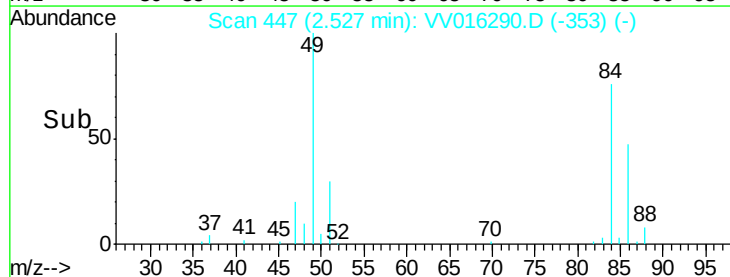
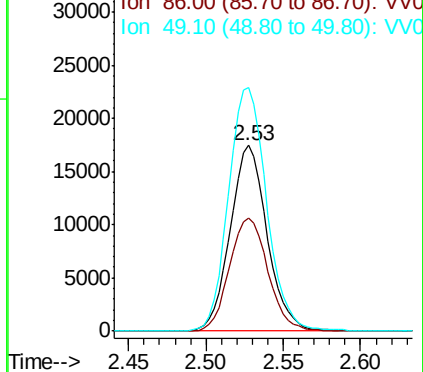
49 130.9 96.7 179.7

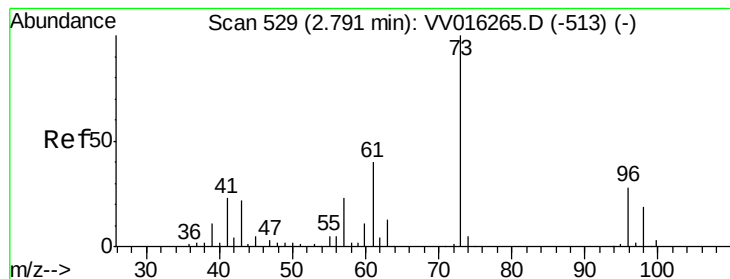


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#17

Methyl tert-butyl Ether

Concen: 5.284 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

ClientSampleId :

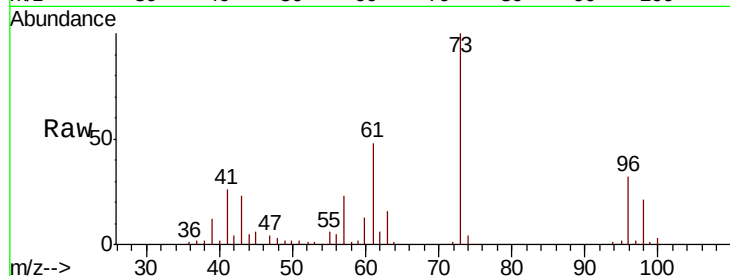
Tot Ion: 73 Resp: 64298

Ion Ratio Lower Upper

73 100

43 23.8 17.8 26.8

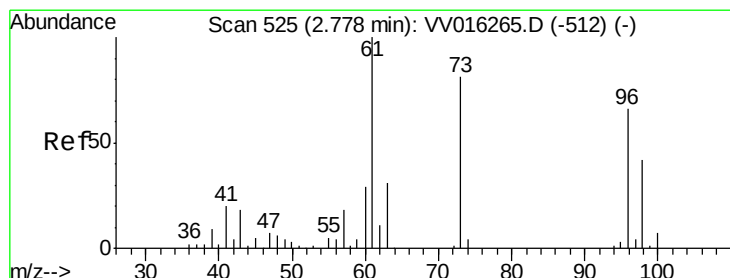
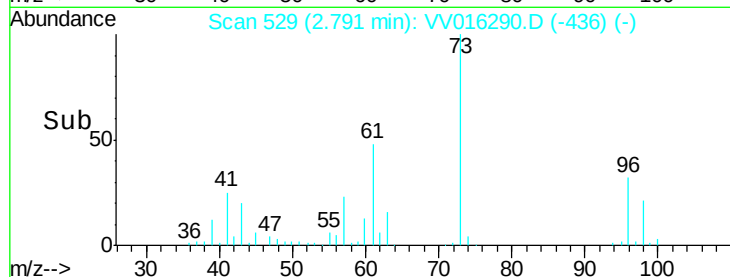
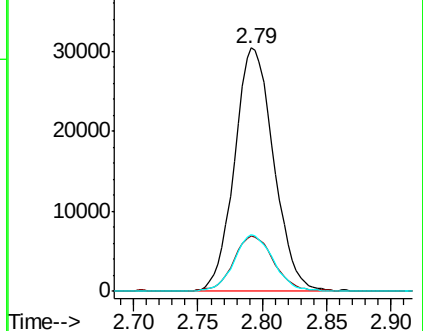
57 23.2 18.9 28.3



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



#18

trans-1,2-Dichloroethene

Concen: 5.227 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

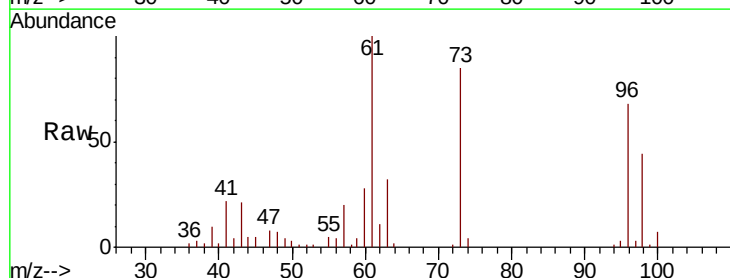
Tgt Ion: 96 Resp: 28267

Ion Ratio Lower Upper

96 100

61 147.9 99.8 185.4

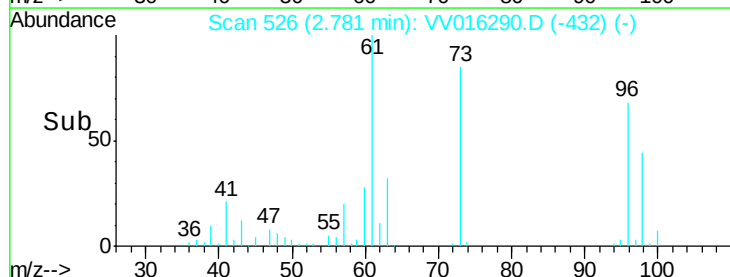
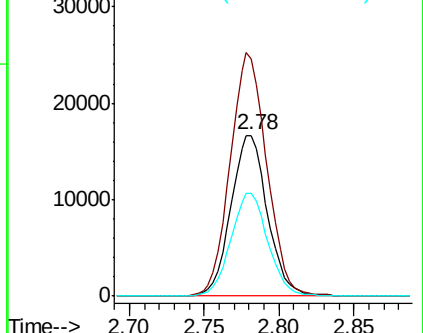
98 64.4 44.0 81.6

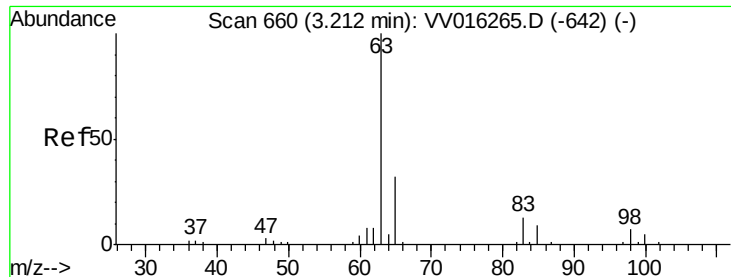


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

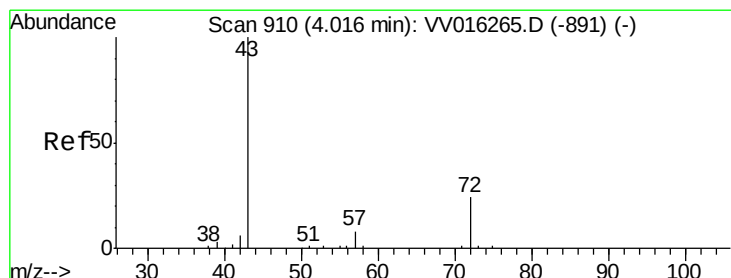
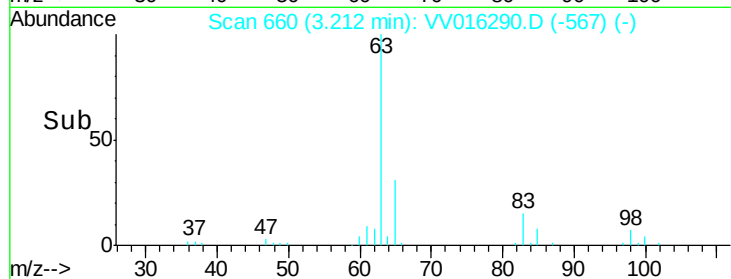
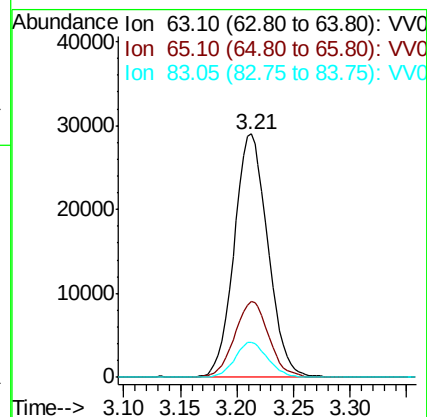
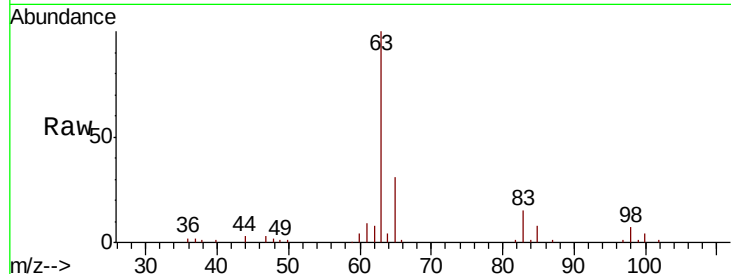




#19
 1,1-Dichloroethane
 Concen: 5.852 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

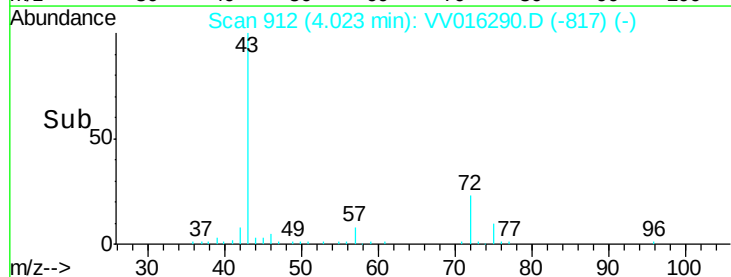
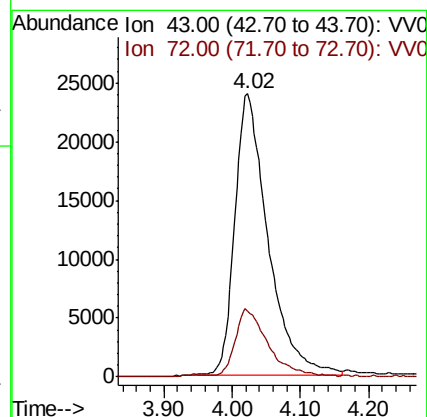
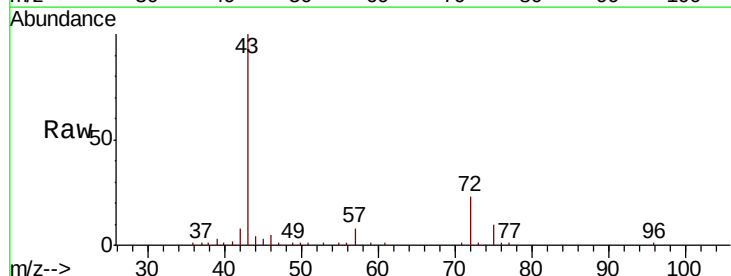
Instrument :
 MSVOA_V
 ClientSampleId :

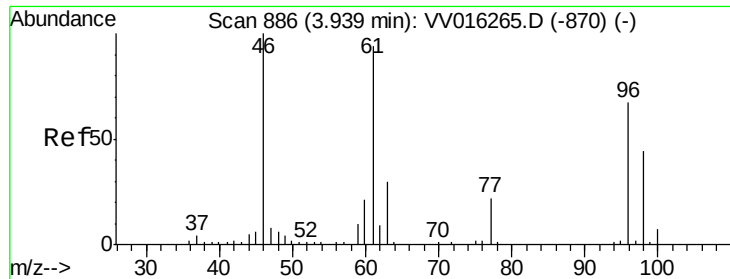
Tot Ion: 63 Resp: 60115
 Ion Ratio Lower Upper
 63 100
 65 31.1 22.3 41.5
 83 14.6 9.4 17.4



#21
 2-Butanone
 Concen: 54.796 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 43 Resp: 80537
 Ion Ratio Lower Upper
 43 100
 72 22.6 9.7 28.9

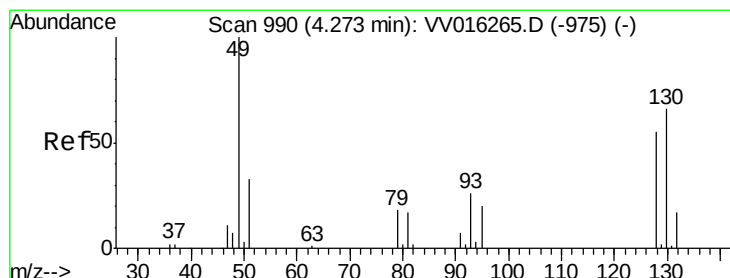
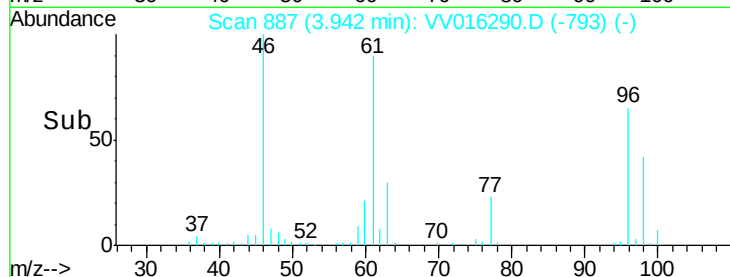
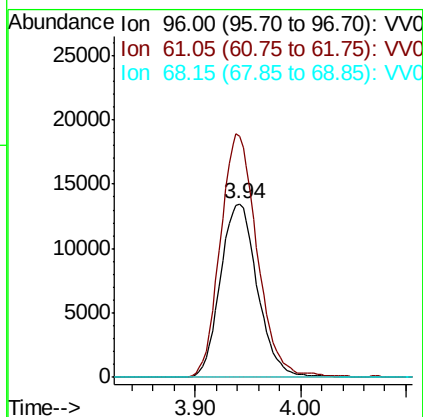
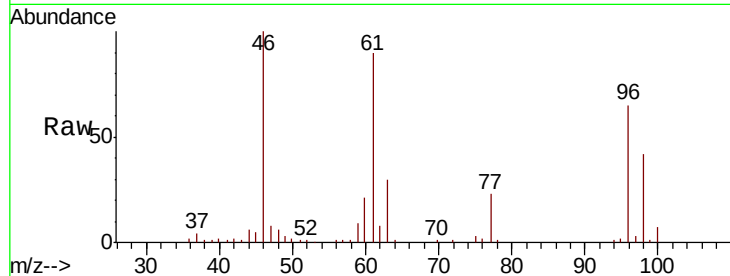




#22
 cis-1,2-Dichloroethene
 Concen: 5.120 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

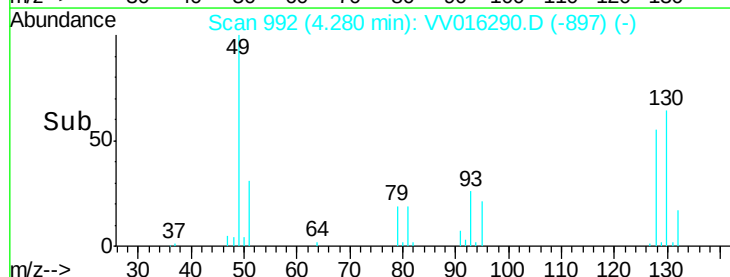
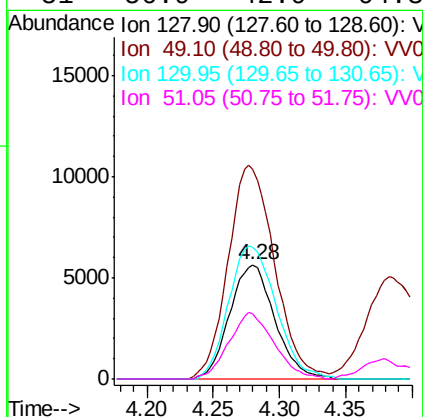
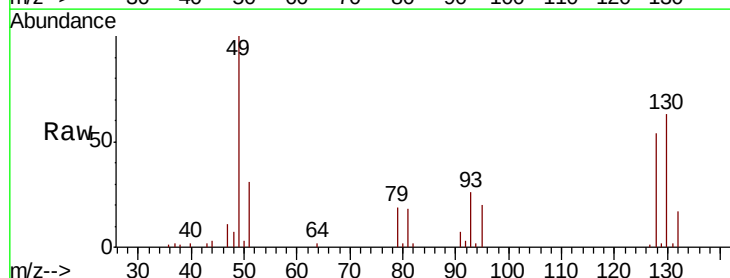
Instrument :
 MSVOA_V
 ClientSampled :

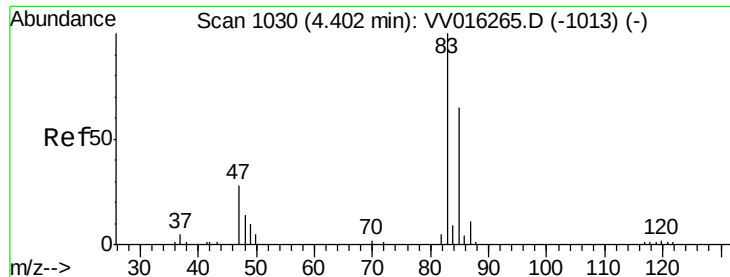
Tot Ion: 96 Resp: 32748
 Ion Ratio Lower Upper
 96 100
 61 139.3 99.7 185.1
 68 0.0 0.0 0.0



#23
 Bromochloromethane
 Concen: 5.502 ug/L
 RT: 4.28 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 128 Resp: 13357
 Ion Ratio Lower Upper
 128 100
 49 184.0 125.5 233.1
 130 115.8 83.0 154.2
 51 56.9 42.9 64.3

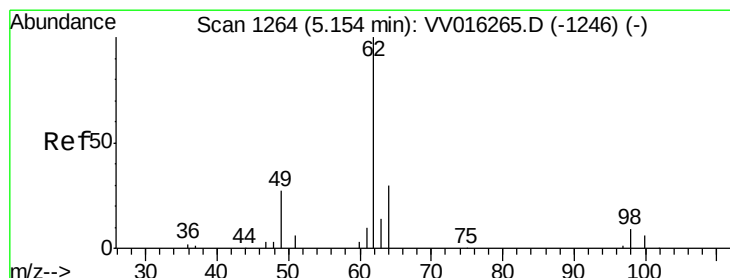
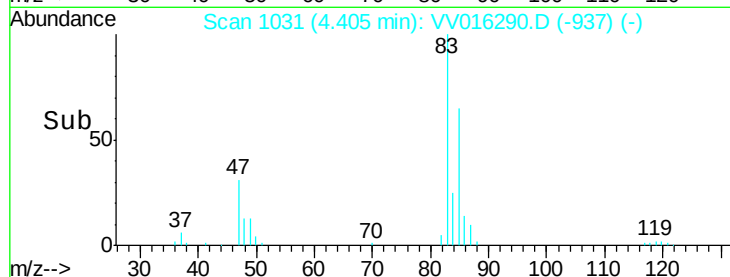
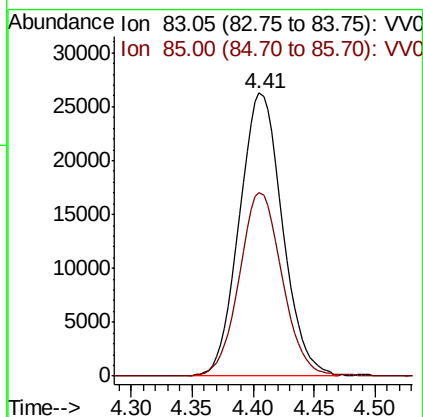
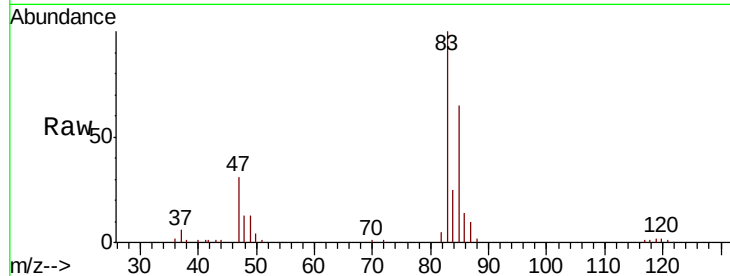




#25
 Chloroform
 Concen: 5.896 ug/L
 RT: 4.41 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

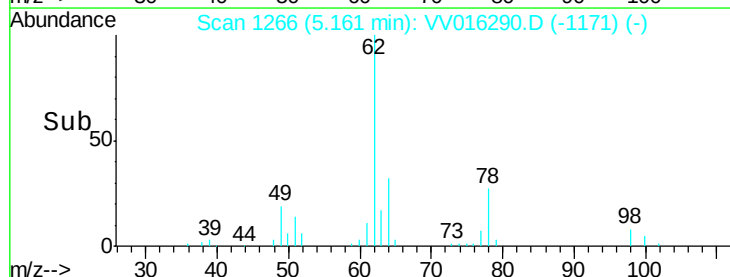
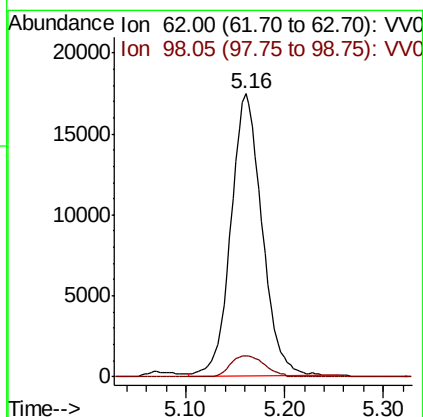
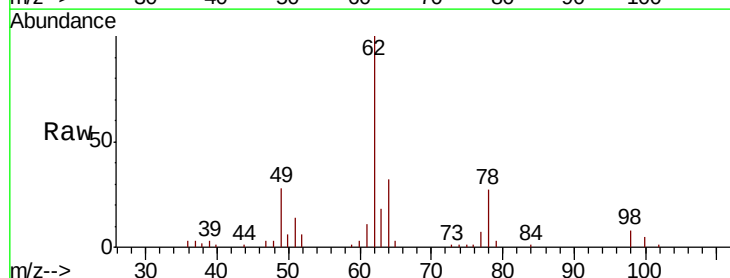
Instrument :
 MSVOA_V
 ClientSampleId :

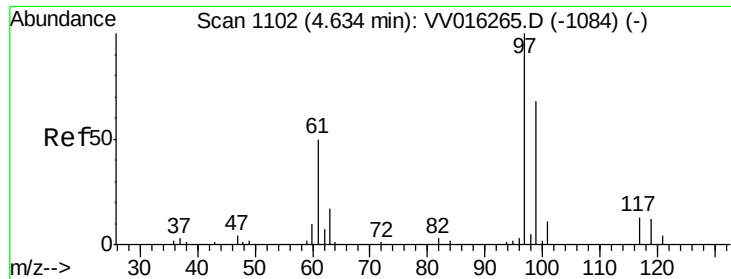
Tot Ion: 83 Resp: 64101
 Ion Ratio Lower Upper
 83 100
 85 64.9 45.1 83.7



#27
 1,2-Dichloroethane
 Concen: 5.357 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.01 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 62 Resp: 38075
 Ion Ratio Lower Upper
 62 100
 98 7.6 5.7 8.5

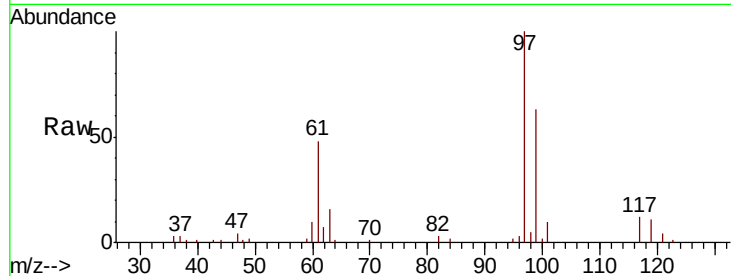




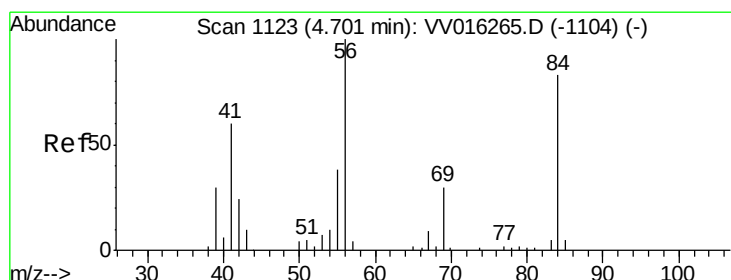
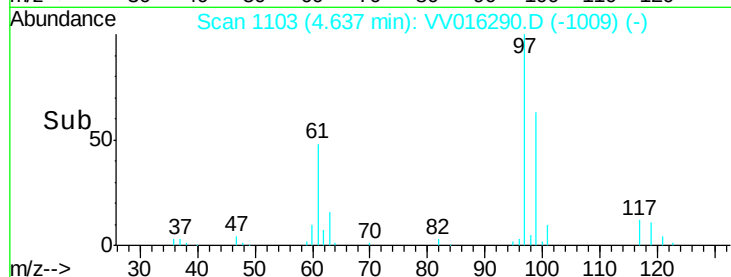
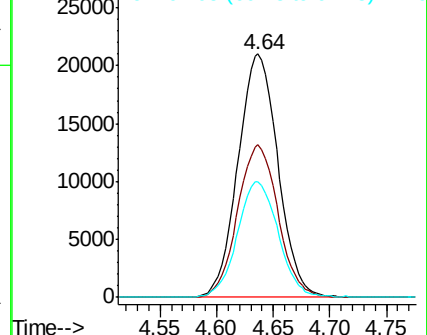
#29
 1,1,1-Trichloroethane
 Concen: 5.301 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 97 Resp: 51686
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.2 76.8
 61 48.7 38.6 57.8

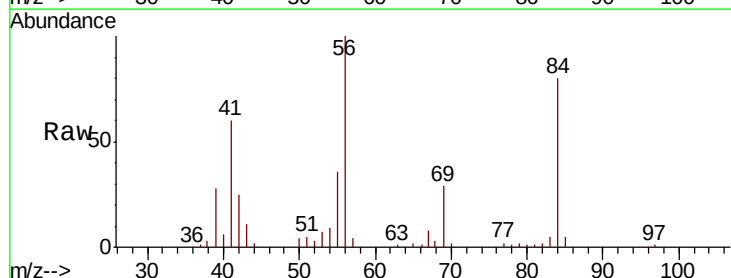


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

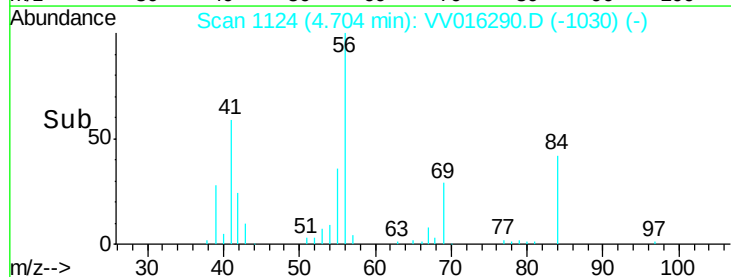
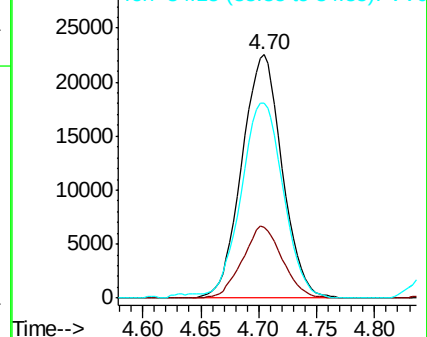


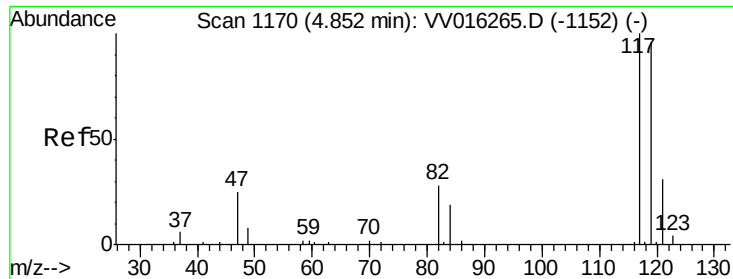
#30
 Cyclohexane
 Concen: 5.214 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 56 Resp: 54484
 Ion Ratio Lower Upper
 56 100
 69 29.1 24.6 36.8
 84 84.4 67.1 100.7



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 5.139 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

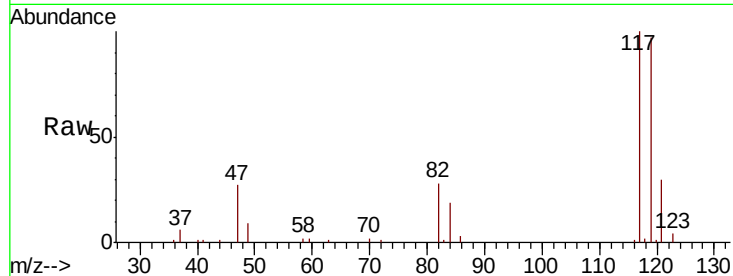
ClientSampleId :

Tot Ion:117 Resp: 42456

Ion Ratio Lower Upper

117 100

119 97.7 75.2 112.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.86

20000

15000

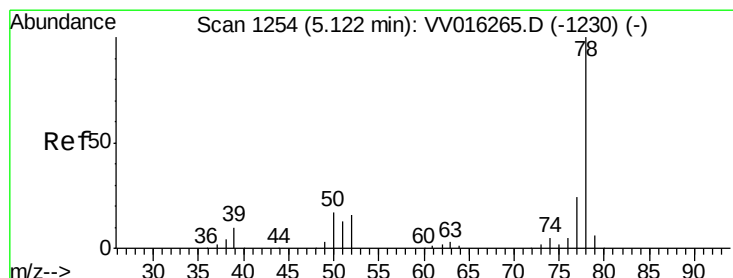
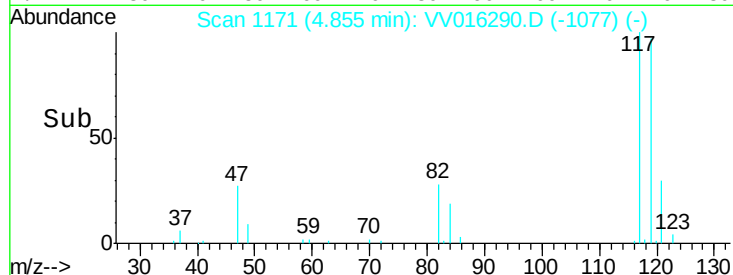
10000

5000

0

Time-->

4.75 4.80 4.85 4.90 4.95



#33

Benzene

Concen: 5.339 ug/L

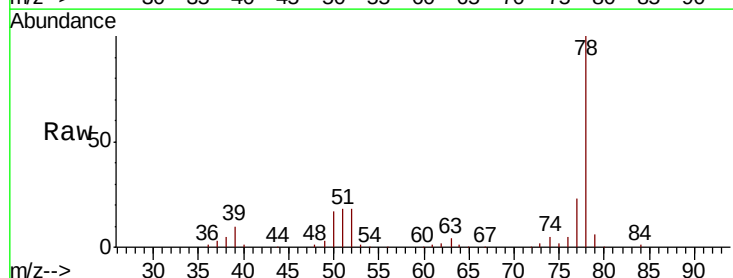
RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Tgt Ion: 78 Resp: 126227



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.13

60000

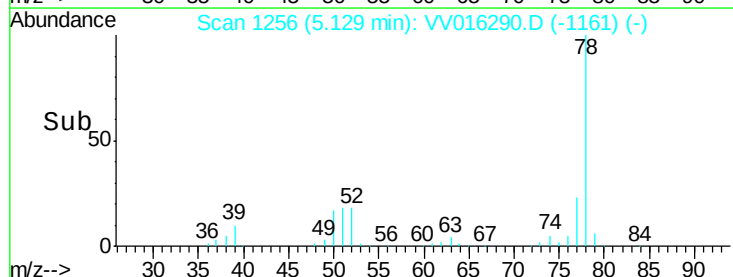
40000

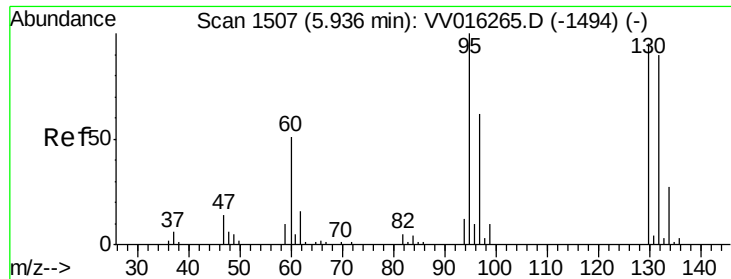
20000

0

Time-->

5.00 5.10 5.20

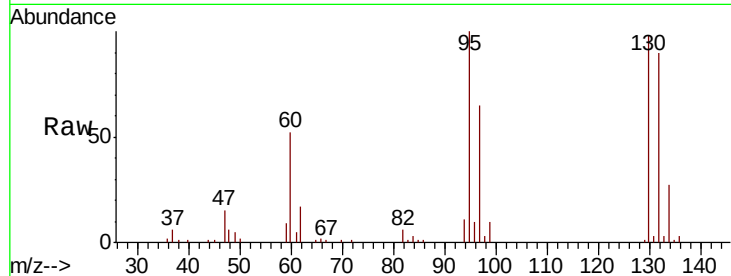




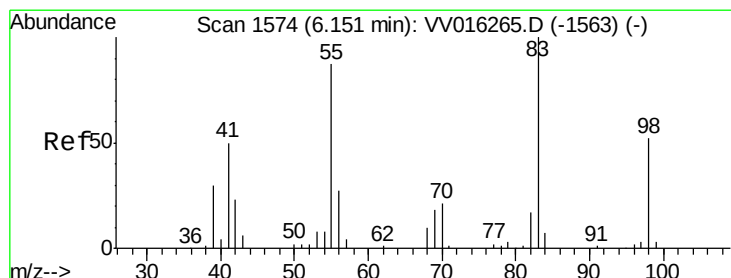
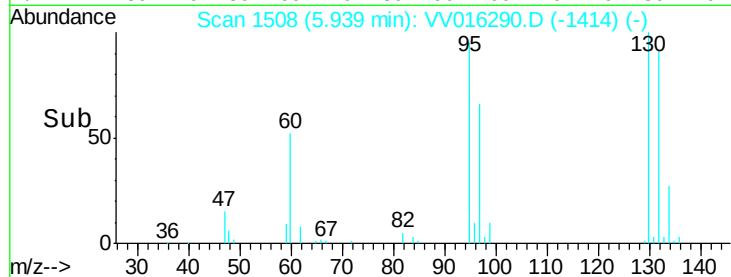
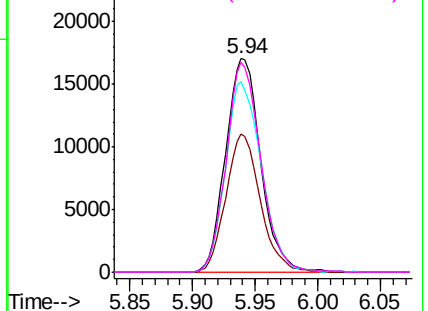
#34
 Trichloroethene
 Concen: 5.375 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 33106
 Ion Ratio Lower Upper
 95 100
 97 64.5 43.6 81.0
 132 89.5 63.9 118.7
 130 98.4 65.2 121.0

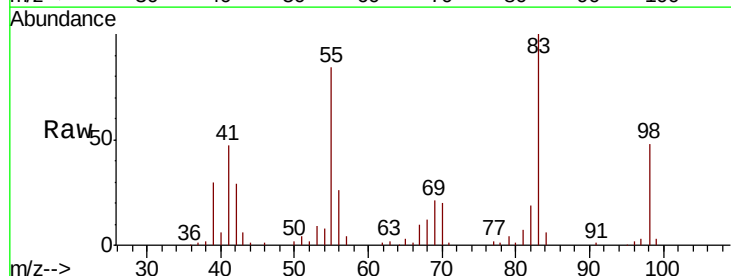


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

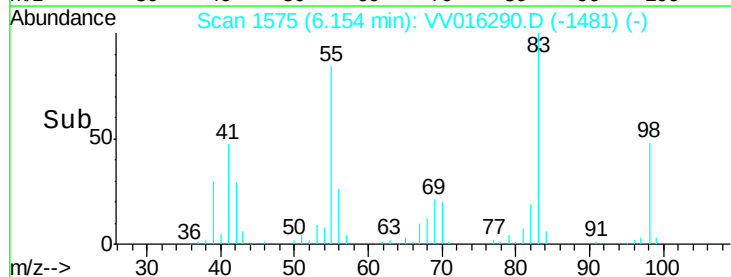
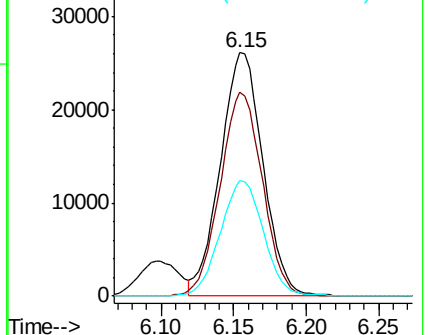


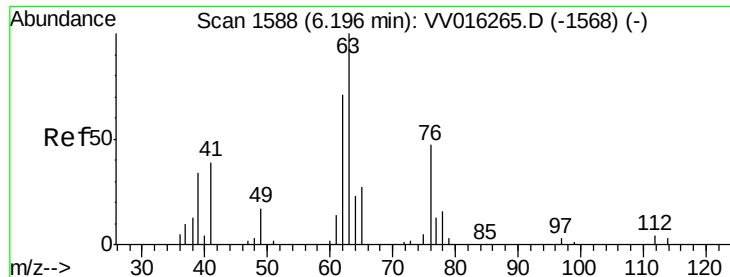
#35
 Methylcyclohexane
 Concen: 5.125 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 83 Resp: 53235
 Ion Ratio Lower Upper
 83 100
 55 83.0 65.4 98.0
 98 48.2 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

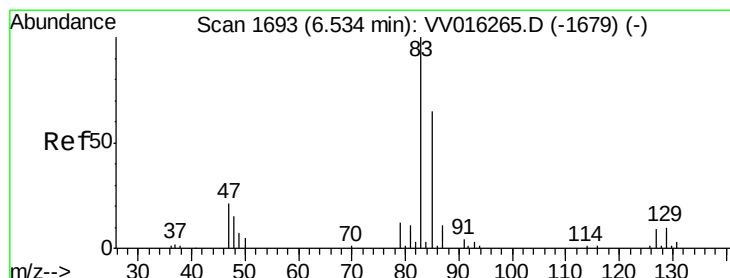
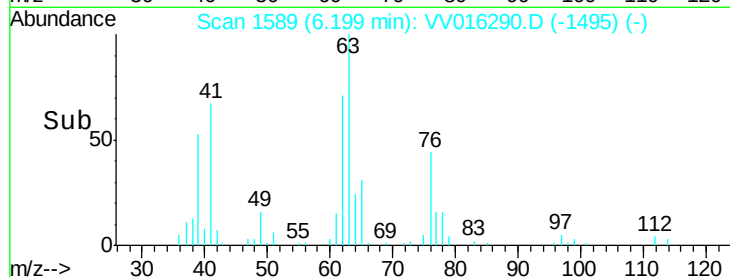
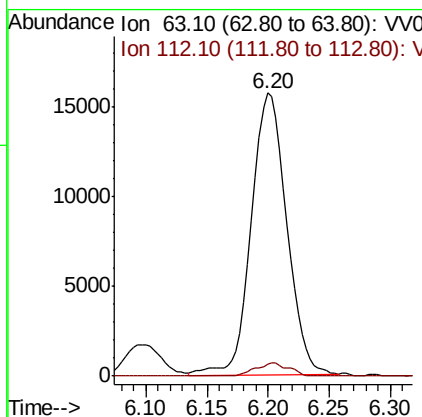
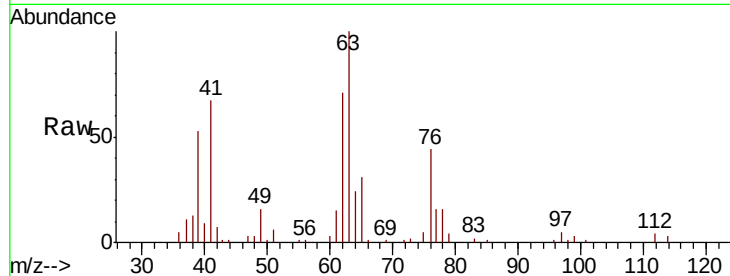




#37
 1,2-Dichloropropane
 Concen: 5.403 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

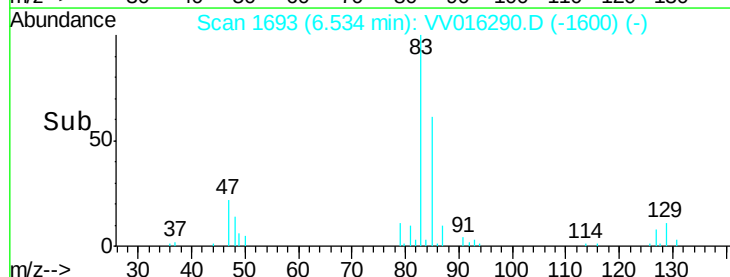
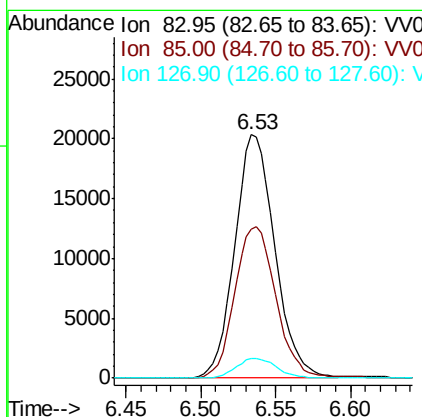
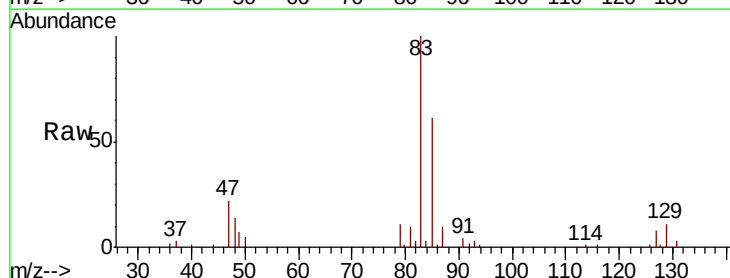
Instrument :
 MSVOA_V
 ClientSampleId :

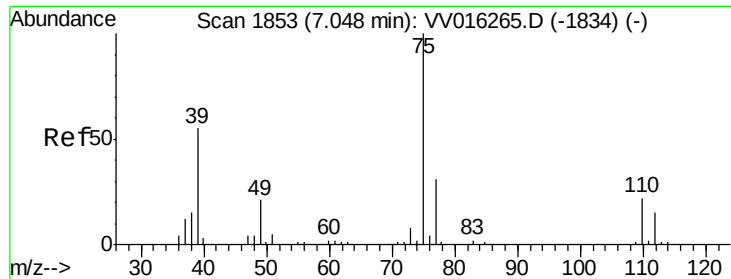
Tot Ion: 63 Resp: 31327
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.326 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 83 Resp: 37996
 Ion Ratio Lower Upper
 83 100
 85 61.2 44.2 82.2
 127 8.1 7.1 10.7

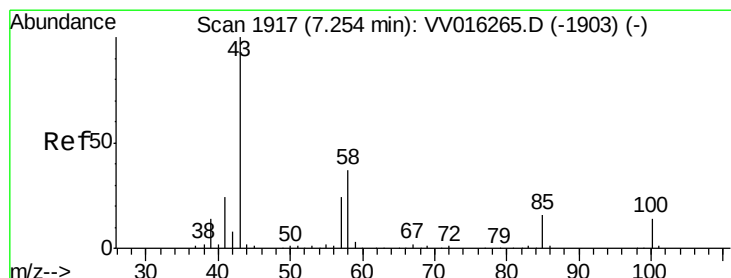
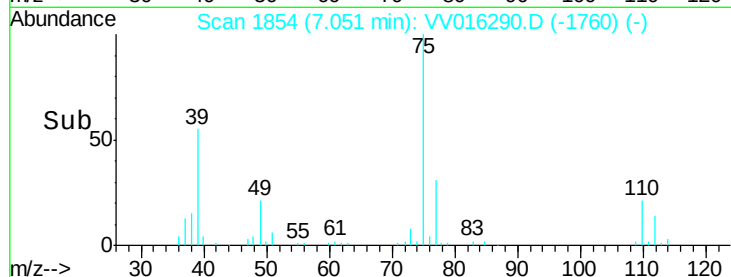
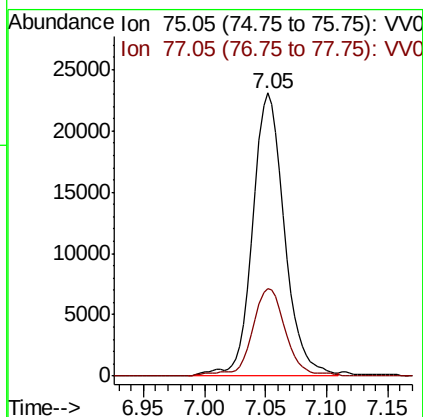
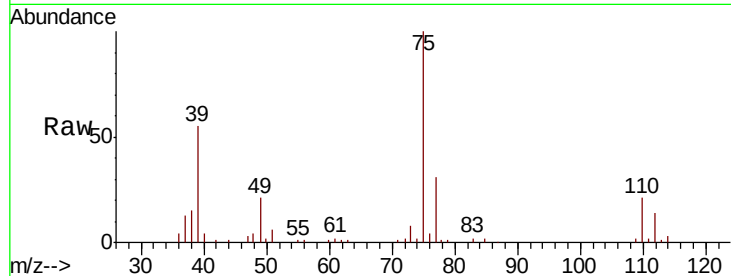




#39
 cis-1,3-Dichloropropene
 Concen: 5.062 ug/L
 RT: 7.05 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

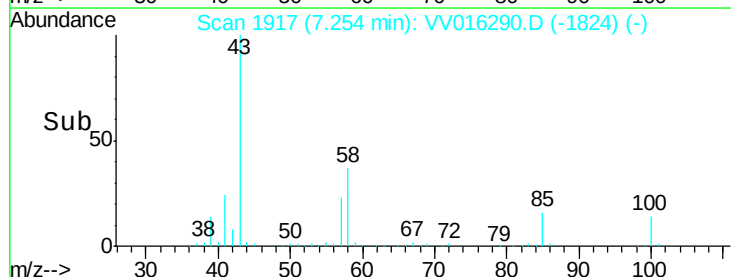
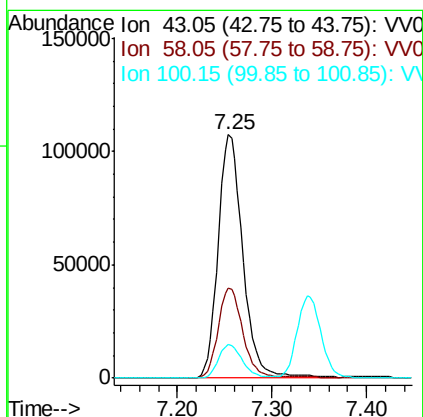
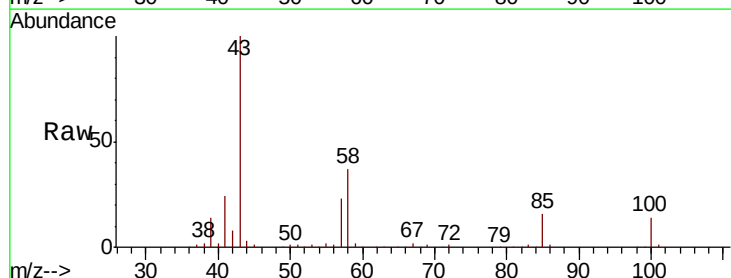
Instrument :
 MSVOA_V
 ClientSampleId :

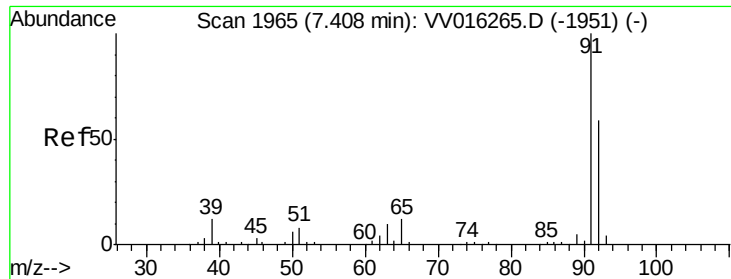
Tot Ion: 75 Resp: 41573
 Ion Ratio Lower Upper
 75 100
 77 31.1 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 54.347 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 43 Resp: 196056
 Ion Ratio Lower Upper
 43 100
 58 36.6 29.5 44.3
 100 13.5 11.1 16.7





#42

Toluene

Concen: 5.365 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

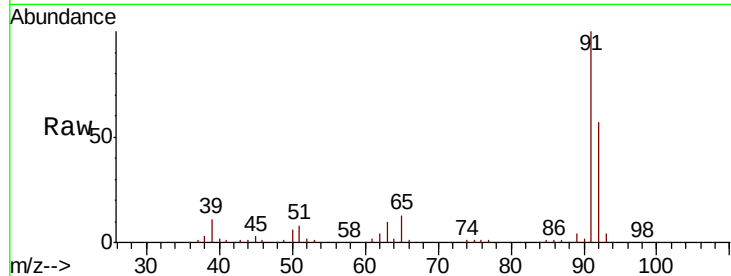
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 138308

Ion Ratio Lower Upper

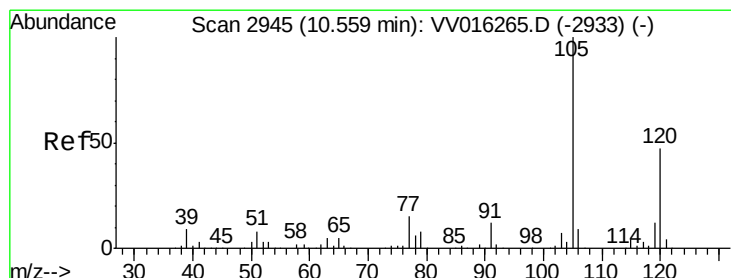
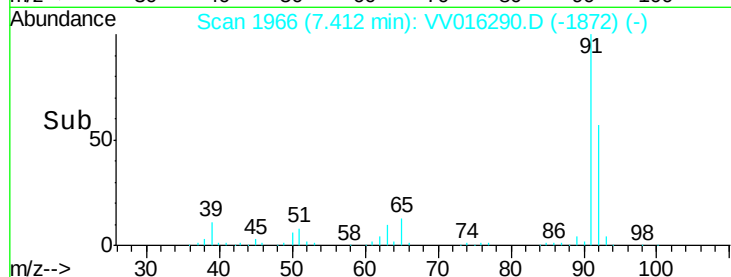
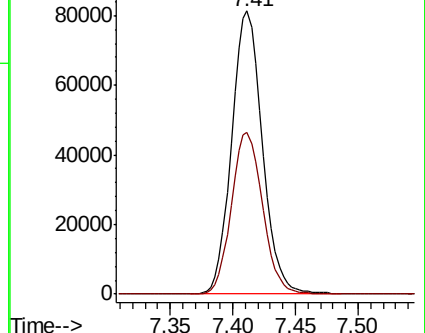
91 100

92 57.0 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV016265.D (-1951) (-)

Ion 92.15 (91.85 to 92.85): VV016290.D (-1872) (-)



#43

1,3,5-Trimethylbenzene

Concen: 5.307 ug/L

RT: 10.56 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VV016290.D

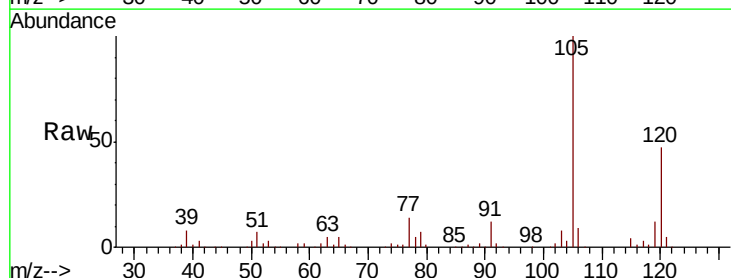
Acq: 28 May 2020 20:57

Tgt Ion: 105 Resp: 124570

Ion Ratio Lower Upper

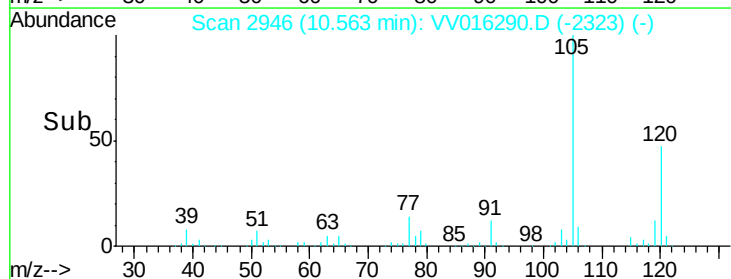
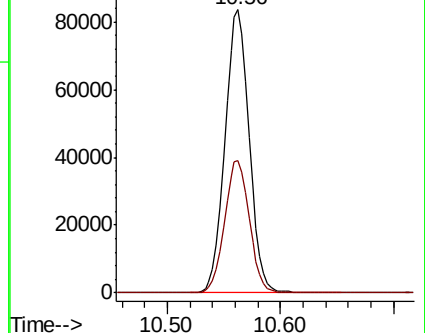
105 100

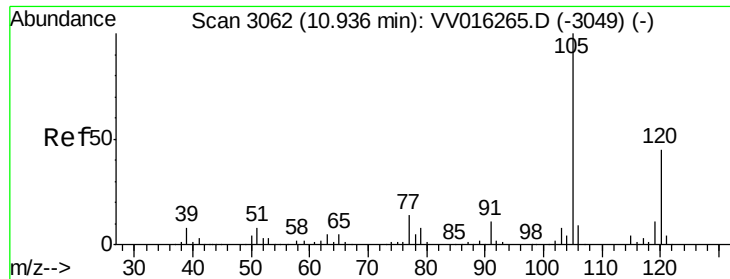
120 47.7 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): VV016265.D (-2933) (-)

Ion 120.00 (119.70 to 120.70): VV016290.D (-2323) (-)





#44

1,2,4-Trimethylbenzene

Concen: 5.322 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

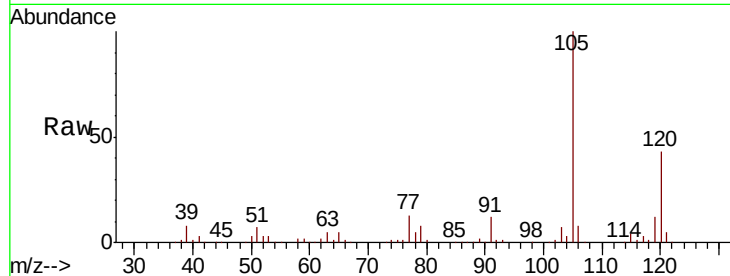
ClientSampled :

Tot Ion:105 Resp: 128647

Ion Ratio Lower Upper

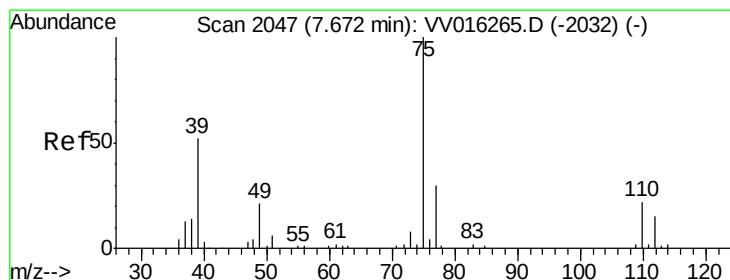
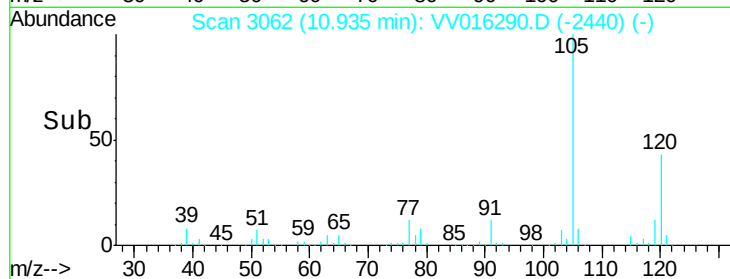
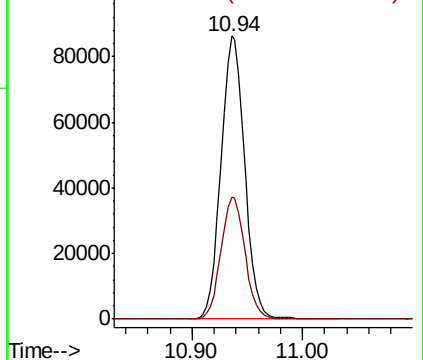
105 100

120 43.5 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: 5.072 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.00 min

Lab File: VV016290.D

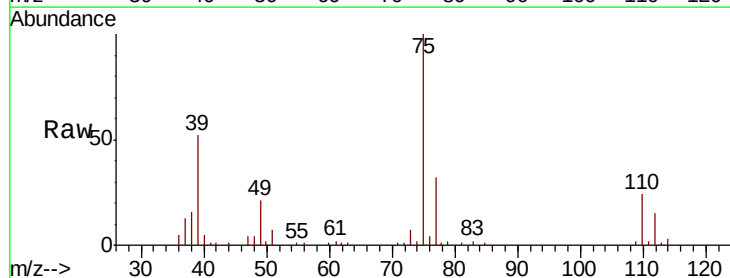
Acq: 28 May 2020 20:57

Tgt Ion: 75 Resp: 34605

Ion Ratio Lower Upper

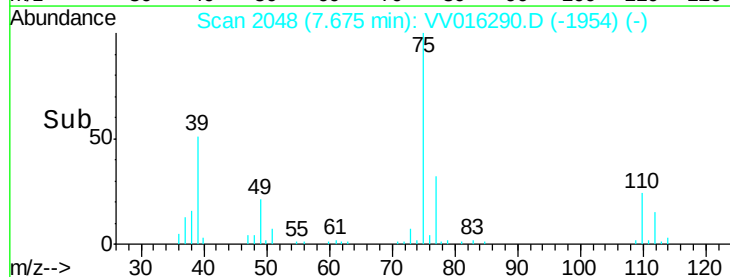
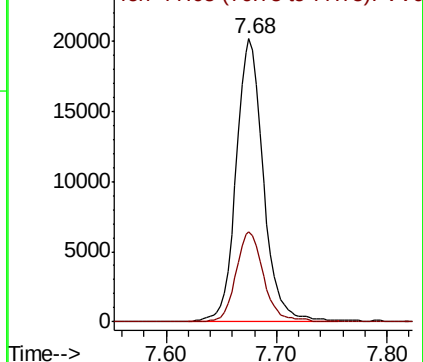
75 100

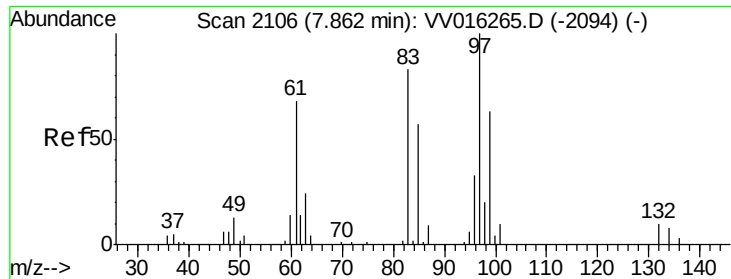
77 31.8 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

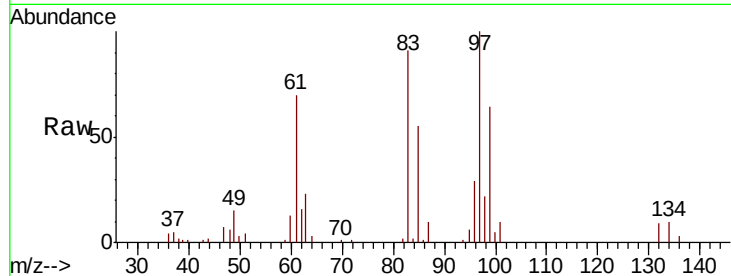




#47
 1,1,2-Trichloroethane
 Concen: 5.490 ug/L
 RT: 7.86 min Scan# 2106
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	20937
Ion	Ratio	Lower	Upper
97	100		
99	63.8	40.8	75.8
83	90.9	60.0	111.4
85	55.3	39.3	73.1

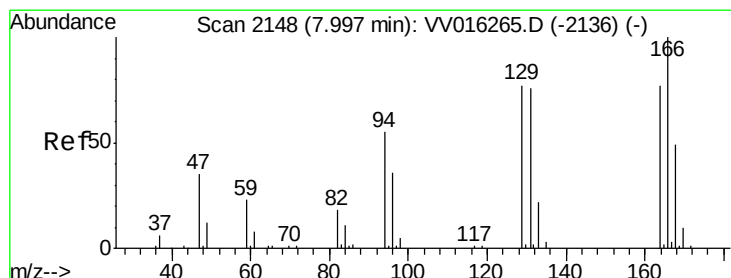
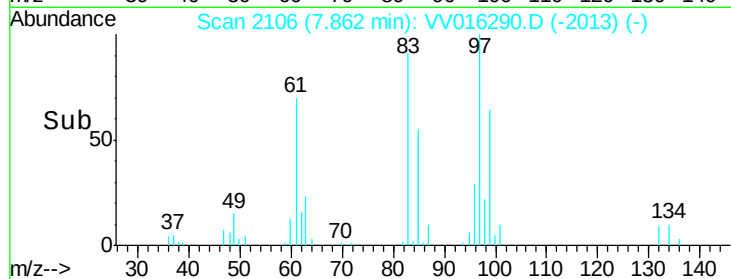
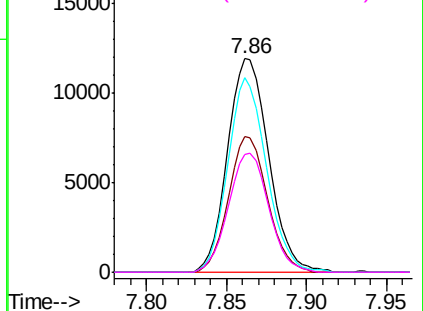


Abundance Ion 96.95 (96.65 to 97.65): VV016290.D (-2013) (-)

Ion 99.05 (98.75 to 99.75): VV016290.D (-2013) (-)

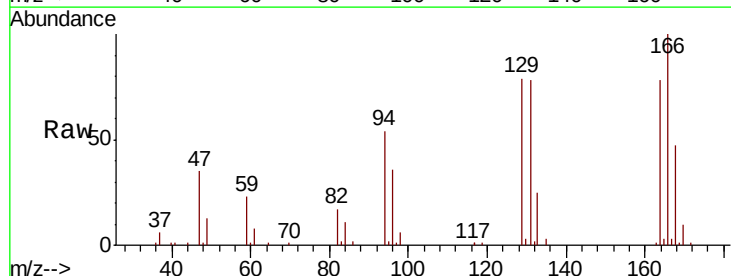
Ion 82.95 (82.65 to 83.65): VV016290.D (-2013) (-)

Ion 85.00 (84.70 to 85.70): VV016290.D (-2013) (-)



#49
 Tetrachloroethene
 Concen: 5.389 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion:	164	Resp:	23826
Ion	Ratio	Lower	Upper
164	100		
129	100.1	70.7	131.3
131	99.2	66.6	123.8
166	127.5	86.9	161.5

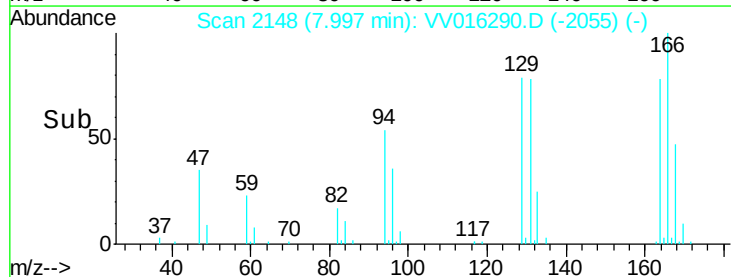
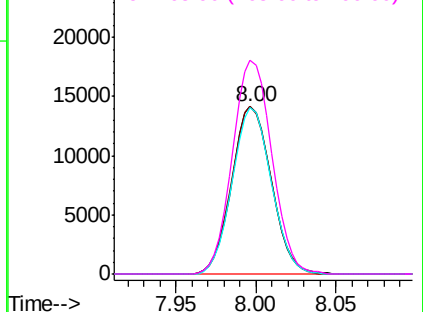


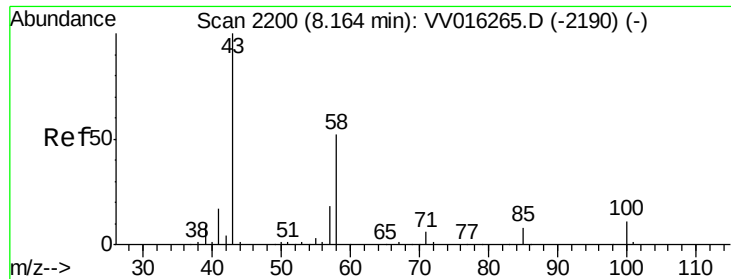
Abundance Ion 163.90 (163.60 to 164.60): VV016290.D (-2055) (-)

Ion 128.95 (128.65 to 129.65): VV016290.D (-2055) (-)

Ion 130.95 (130.65 to 131.65): VV016290.D (-2055) (-)

Ion 165.90 (165.60 to 166.60): VV016290.D (-2055) (-)

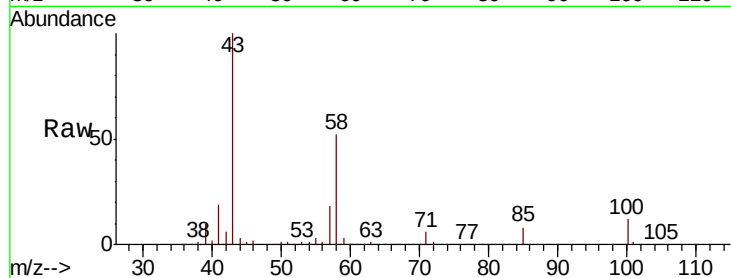




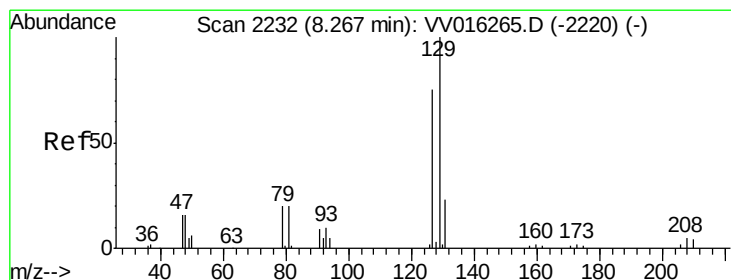
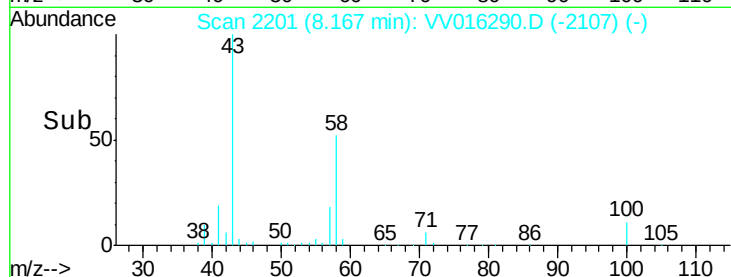
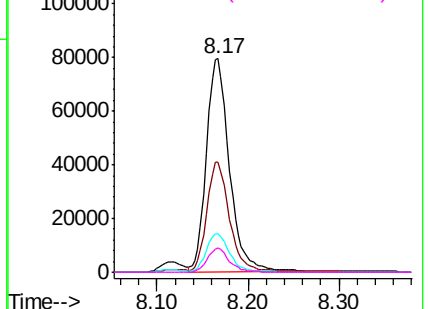
#50
2-Hexanone
Concen: 55.907 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.00 min
Lab File: VV016290.D
Acq: 28 May 2020 20:57

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 140650
Ion Ratio Lower Upper
43 100
58 50.6 41.4 62.0
57 17.9 15.0 22.4
100 10.9 9.0 13.4

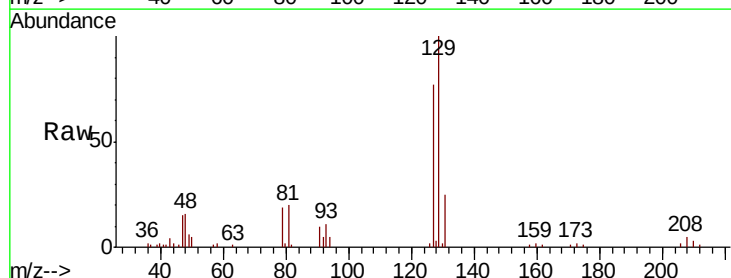


Abundance Ion 43.05 (42.75 to 43.75): VV016290.D (-2107) (-)
Ion 58.05 (57.75 to 58.75): VV016290.D (-2107) (-)
Ion 57.20 (56.90 to 57.90): VV016290.D (-2107) (-)
Ion 100.15 (99.85 to 100.85): VV016290.D (-2107) (-)

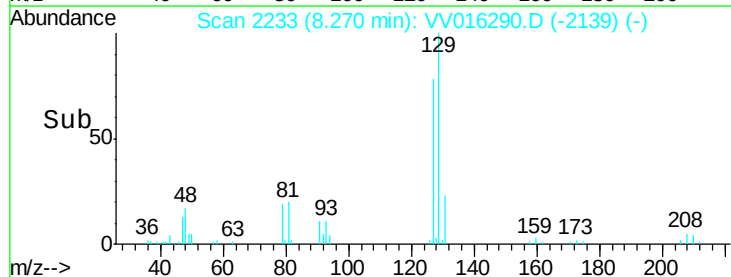
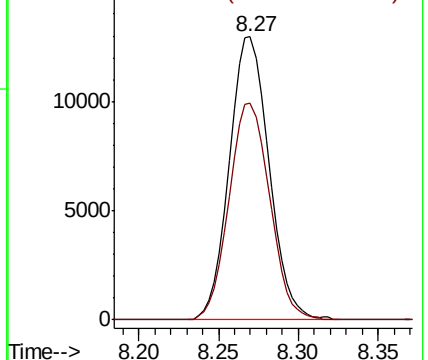


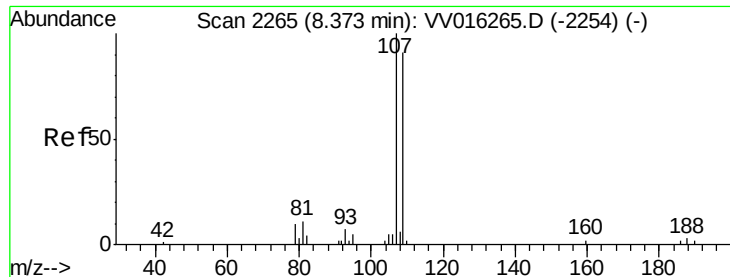
#51
Dibromochloromethane
Concen: 5.432 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV016290.D
Acq: 28 May 2020 20:57

Tgt Ion: 129 Resp: 21941
Ion Ratio Lower Upper
129 100
127 76.6 55.2 102.4



Abundance Ion 128.95 (128.65 to 129.65): VV016290.D (-2139) (-)
Ion 126.90 (126.60 to 127.60): VV016290.D (-2139) (-)





#52

1,2-Dibromoethane

Concen: 5.231 ug/L

RT: 8.38 min Scan# 2266

Delta R.T. 0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :
MSVOA_V
ClientSampled :

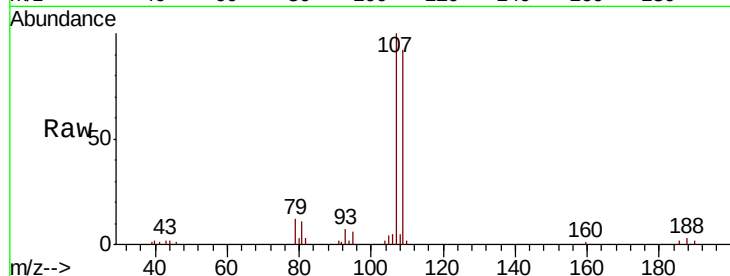
Tot Ion:107 Resp: 18744

Ion Ratio Lower Upper

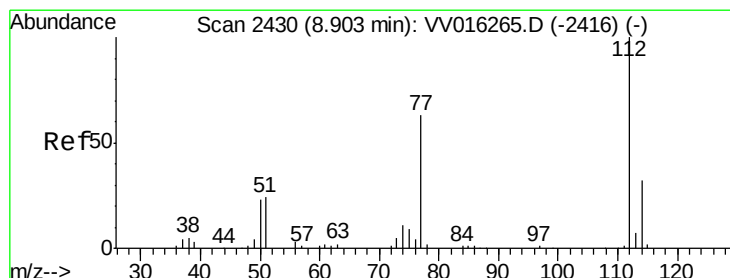
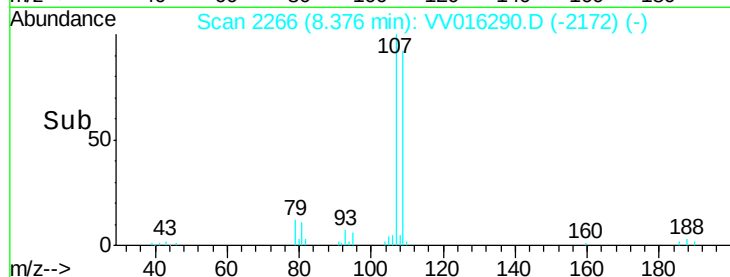
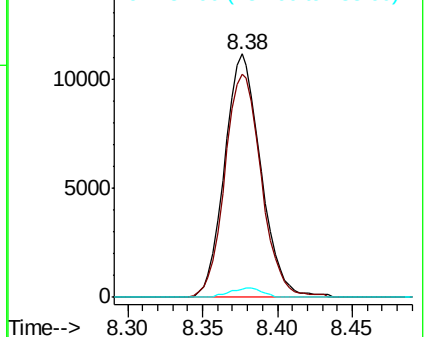
107 100

109 91.7 63.1 117.3

188 3.3 2.6 4.0



Abundance Ion 106.95 (106.65 to 107.65): V
15000 Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#53

Chlorobenzene

Concen: 5.381 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

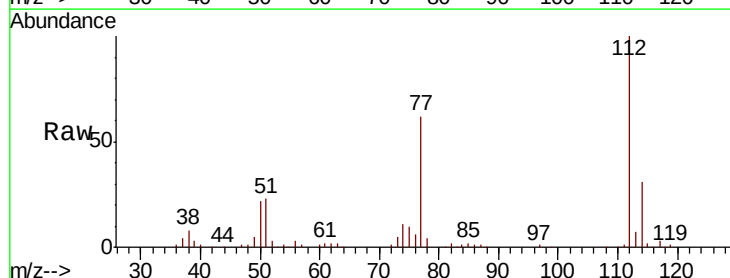
Tgt Ion:112 Resp: 85727

Ion Ratio Lower Upper

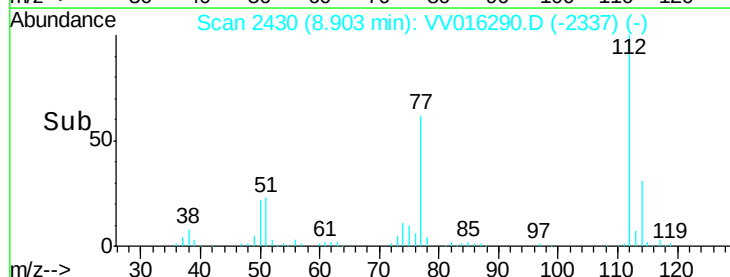
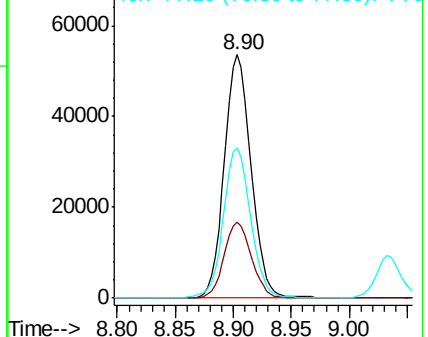
112 100

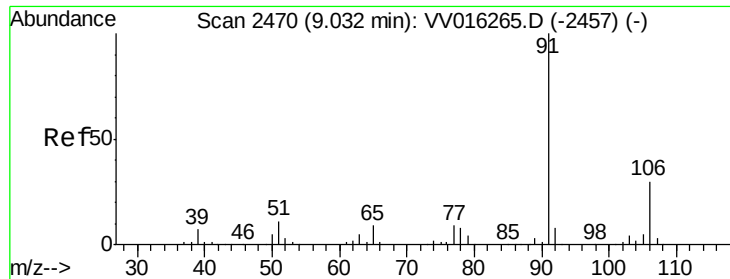
114 31.1 22.3 41.3

77 61.9 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): VV0

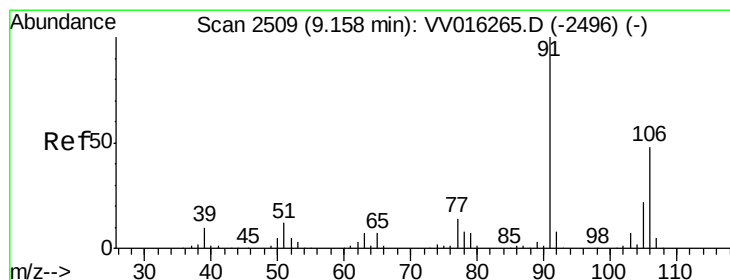
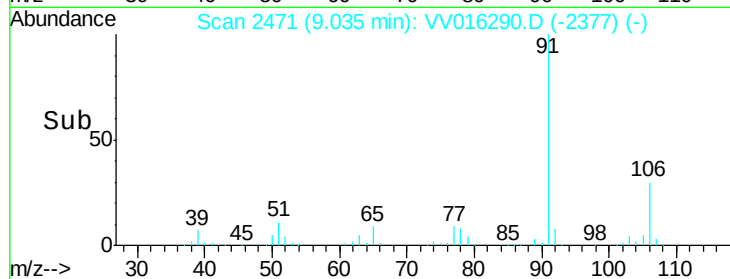
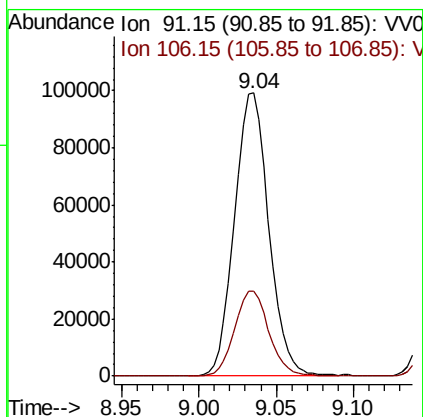
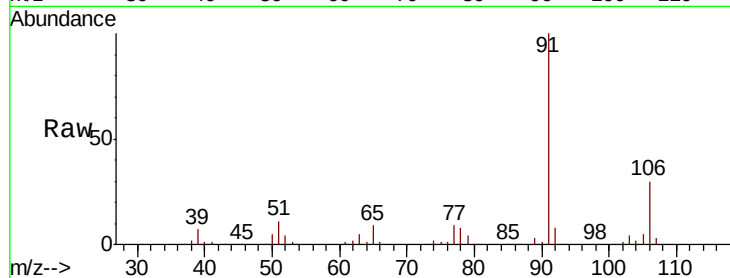




#54
Ethylbenzene
Concen: 5.323 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016290.D
Acq: 28 May 2020 20:57

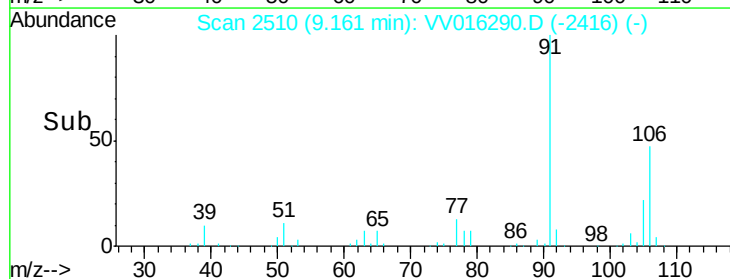
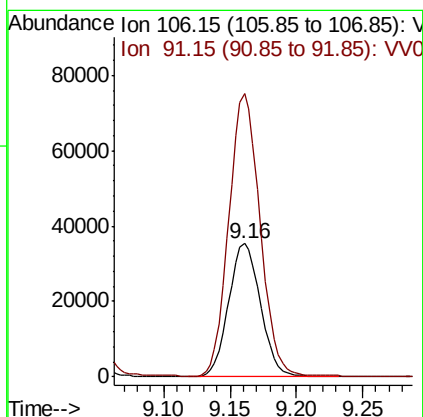
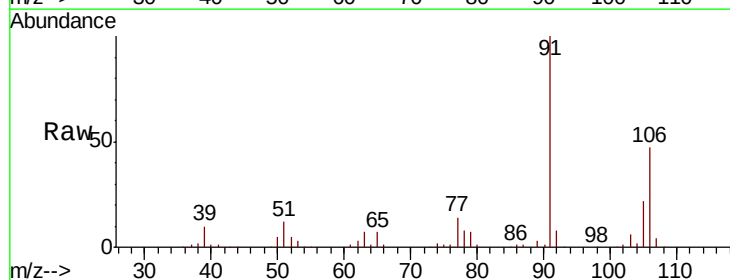
Instrument :
MSVOA_V
ClientSampled :

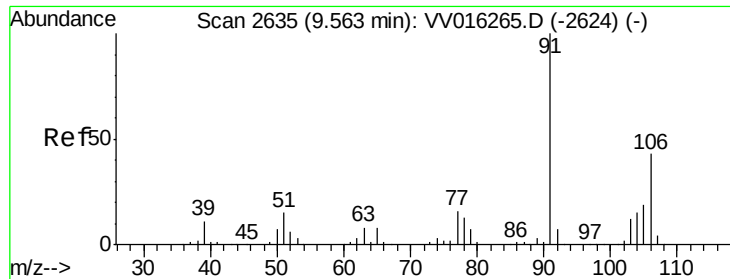
Tot Ion: 91 Resp: 152975
Ion Ratio Lower Upper
91 100
106 30.0 21.0 39.0



#55
m,p-xylene
Concen: 5.498 ug/L
RT: 9.16 min Scan# 2510
Delta R.T. 0.00 min
Lab File: VV016290.D
Acq: 28 May 2020 20:57

Tgt Ion: 106 Resp: 59242
Ion Ratio Lower Upper
106 100
91 212.1 148.1 275.0





#56

o-xylene

Concen: 5.297 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

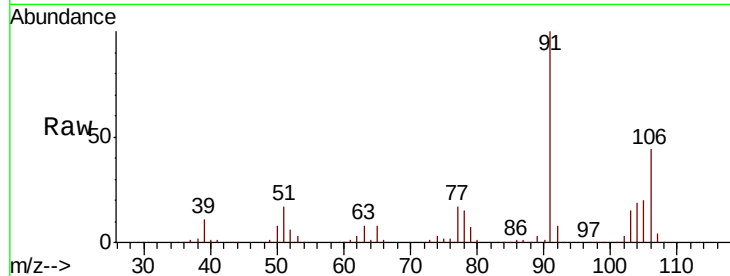
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 54393

Ion Ratio Lower Upper

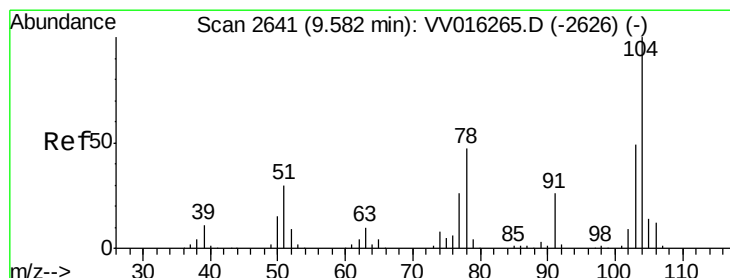
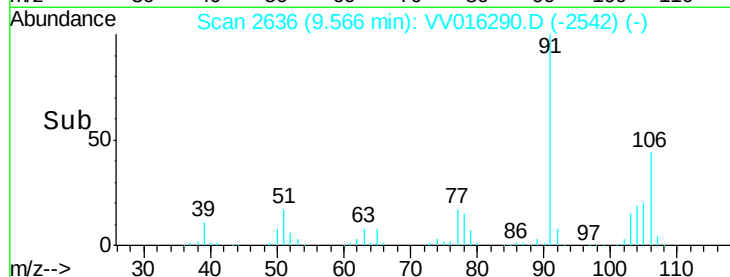
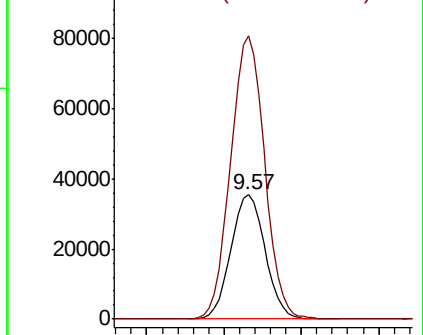
106 100

91 227.7 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#57

Styrene

Concen: 5.539 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV016290.D

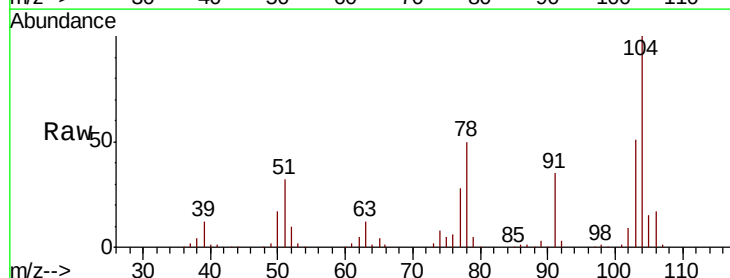
Acq: 28 May 2020 20:57

Tgt Ion:104 Resp: 94663

Ion Ratio Lower Upper

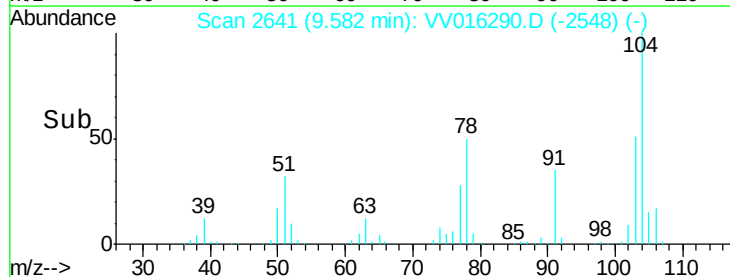
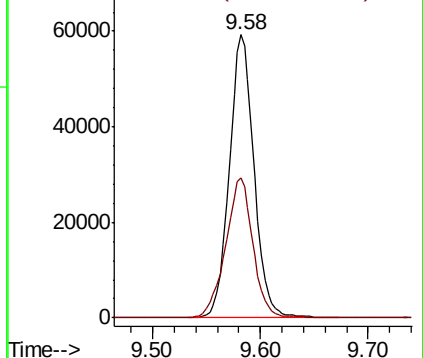
104 100

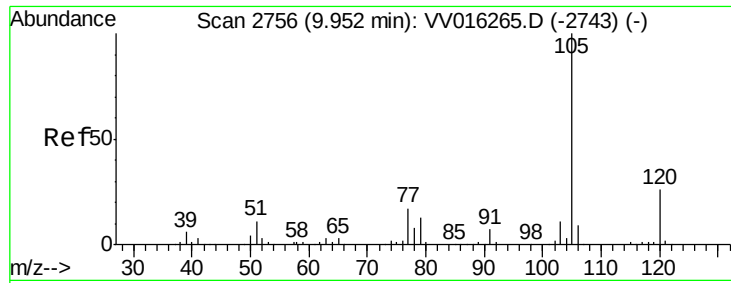
78 49.5 33.2 61.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 5.342 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

ClientSampleId :

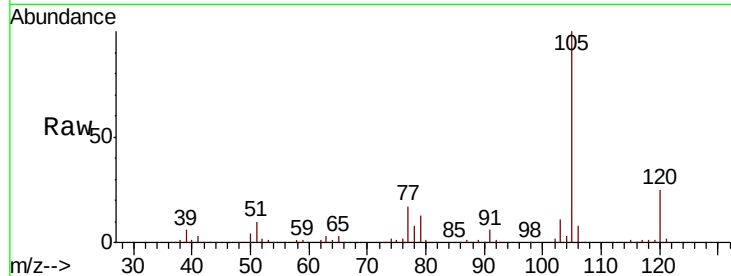
Tot Ion:105 Resp: 150275

Ion Ratio Lower Upper

105 100

120 25.1 20.9 31.3

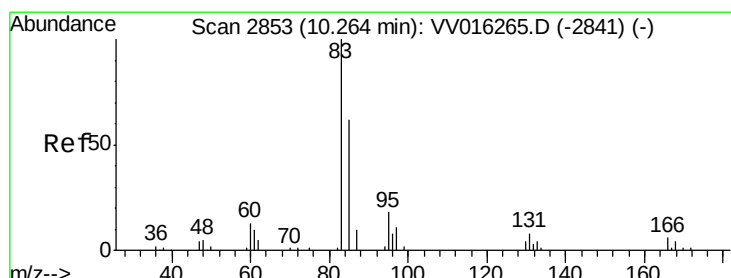
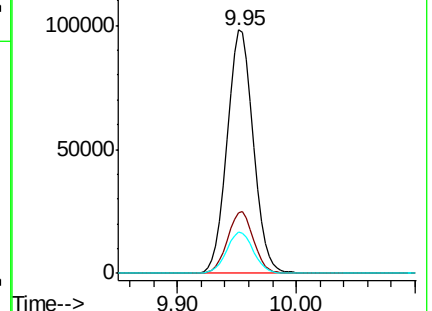
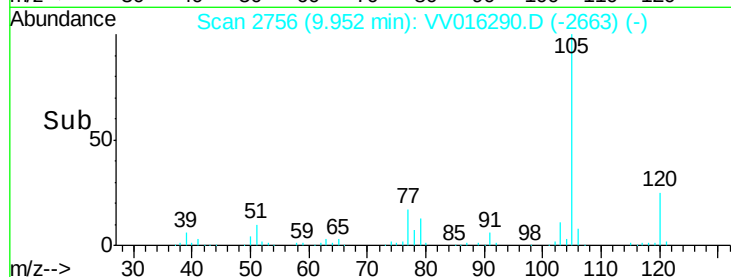
77 17.3 13.9 20.9



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



#60

1,1,2,2-Tetrachloroethane

Concen: 5.279 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

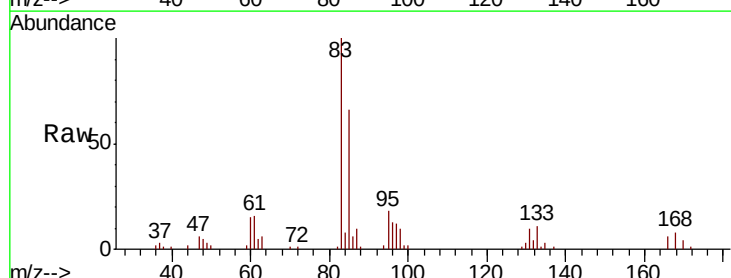
Tgt Ion: 83 Resp: 25028

Ion Ratio Lower Upper

83 100

85 66.2 45.6 84.8

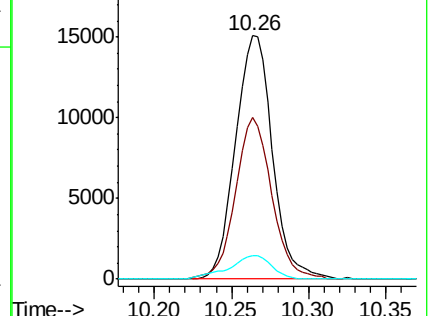
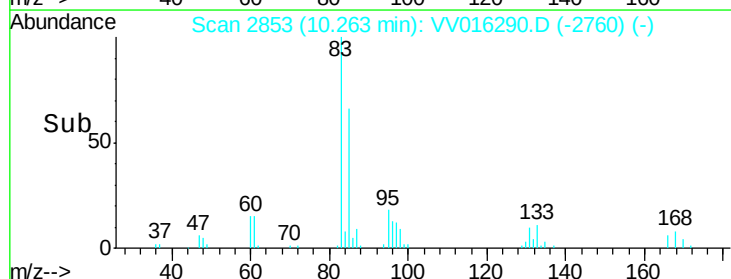
131 9.7 7.9 11.9

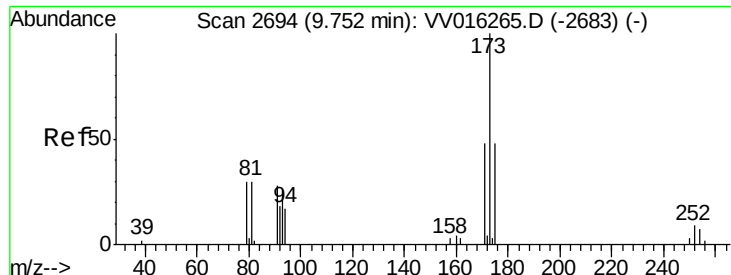


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#62

Bromoform

Concen: 5.405 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Instrument :
MSVOA_V
ClientSampleId :

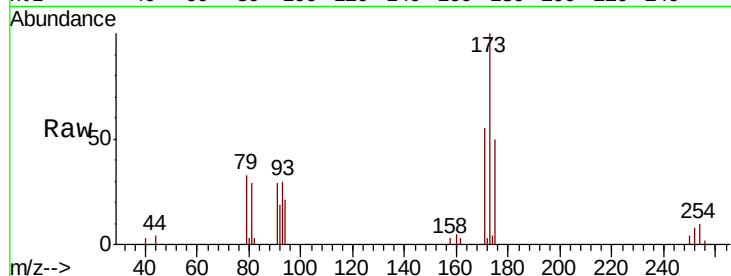
Tot Ion:173 Resp: 9412

Ion Ratio Lower Upper

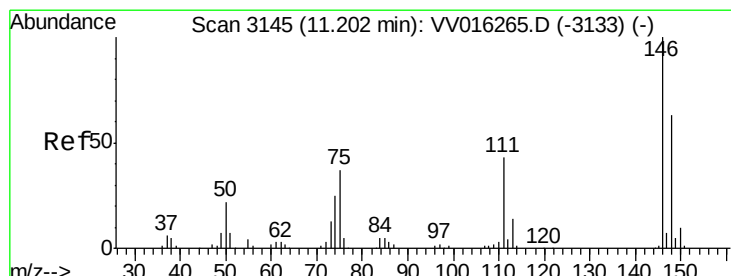
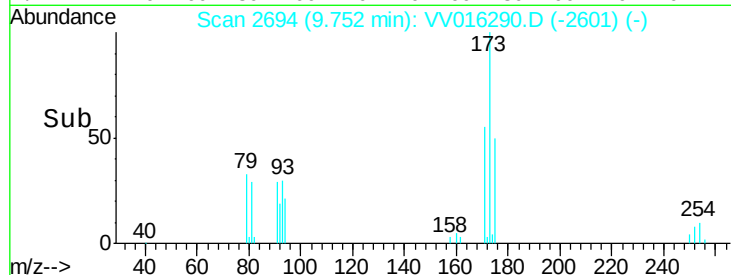
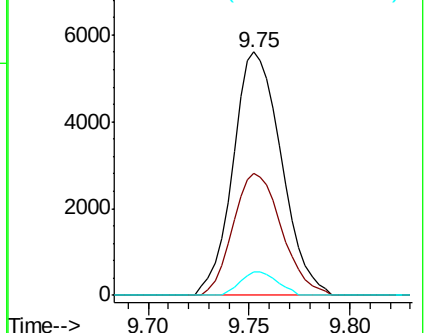
173 100

175 50.2 38.6 58.0

254 7.5 6.6 9.8



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 5.318 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

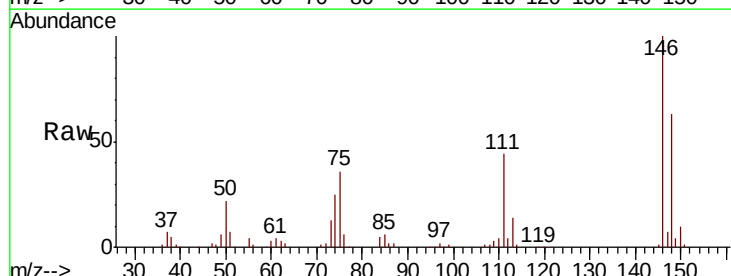
Tgt Ion:146 Resp: 65719

Ion Ratio Lower Upper

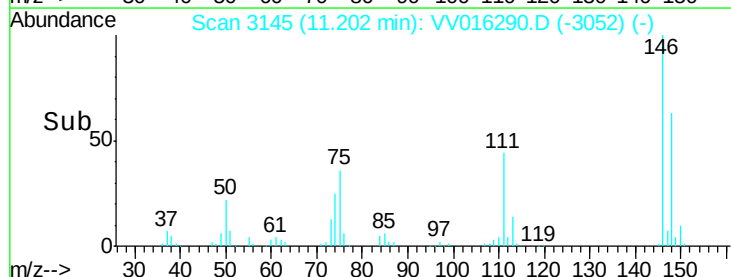
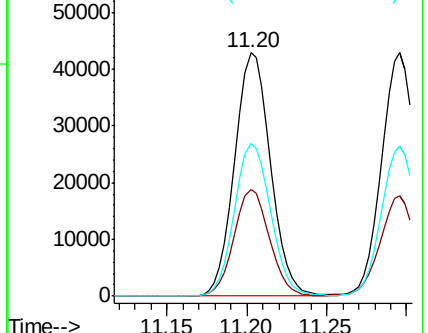
146 100

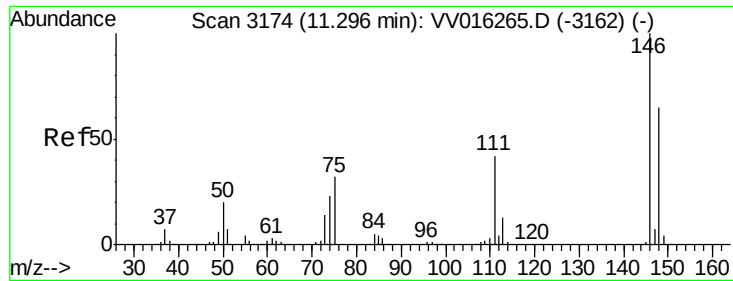
111 44.0 29.7 55.1

148 62.9 45.9 85.3



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





#64

1,4-Dichlorobenzene

Concen: 5.220 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV016290.D

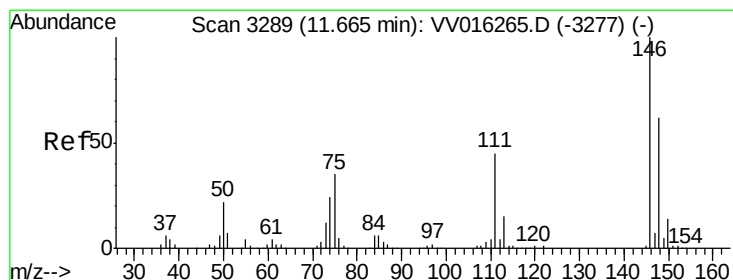
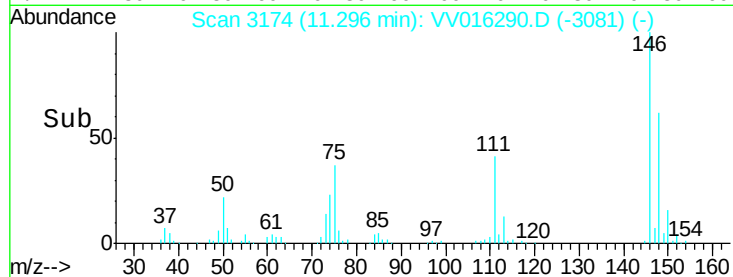
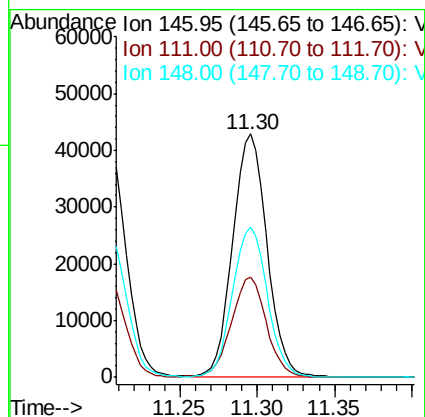
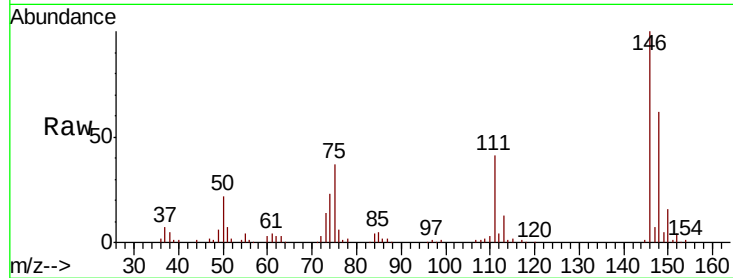
Acq: 28 May 2020 20:57

Instrument :

MSVOA_V

ClientSampled :

Tot Ion:146	Resp:	65550
Ion Ratio	Lower	Upper
146	100	
111	41.1	28.3 52.7
148	61.5	43.3 80.3



#66

1,2-Dichlorobenzene

Concen: 5.371 ug/L

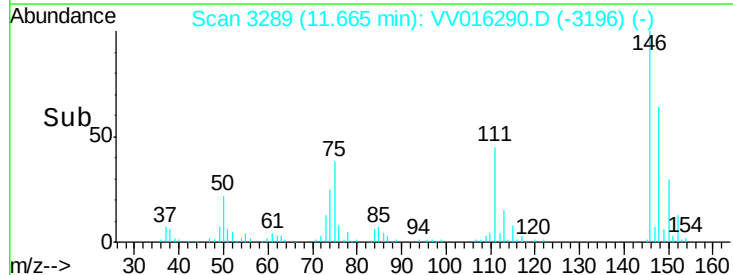
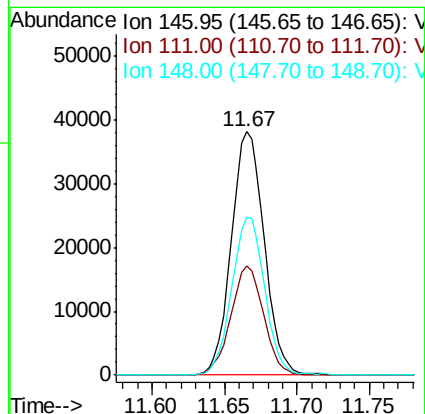
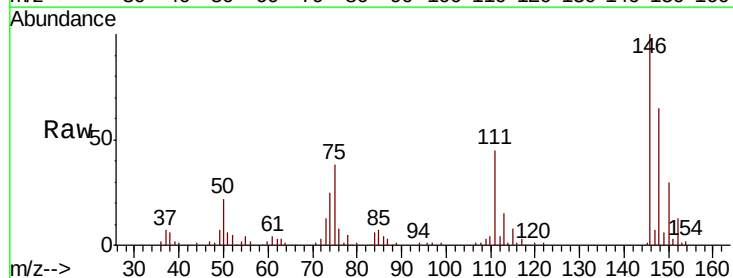
RT: 11.67 min Scan# 3289

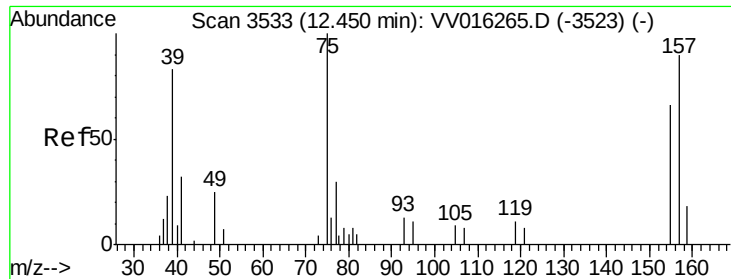
Delta R.T. -0.00 min

Lab File: VV016290.D

Acq: 28 May 2020 20:57

Tgt Ion:146	Resp:	59989
Ion Ratio	Lower	Upper
146	100	
111	45.0	35.7 53.5
148	64.6	51.3 76.9

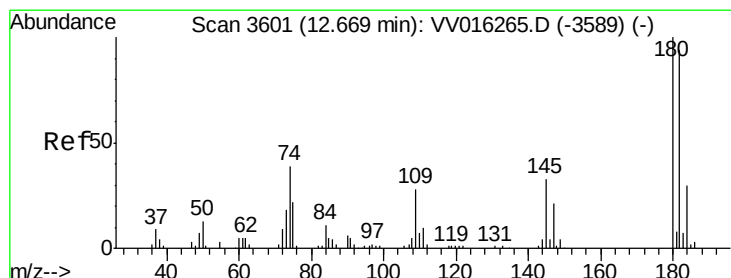
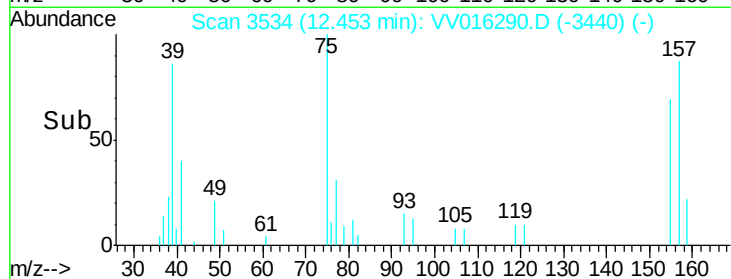
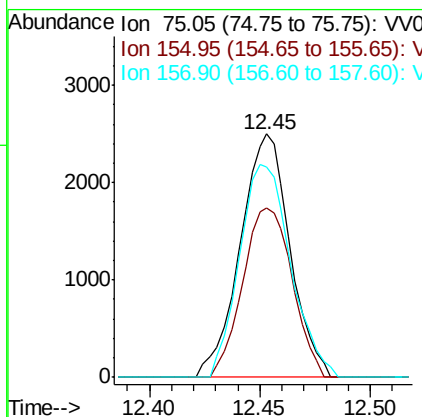
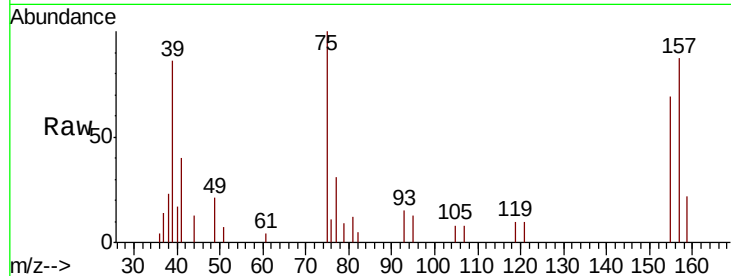




#67
 1,2-Dibromo-3-chloropropane
 Concen: 5.188 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

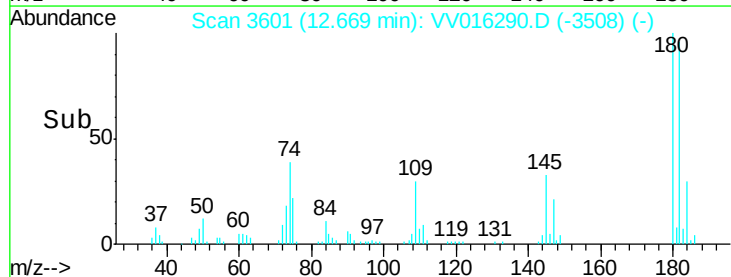
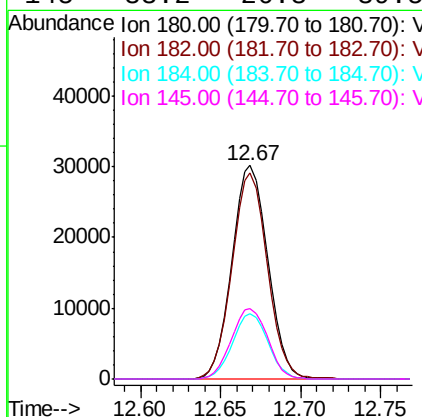
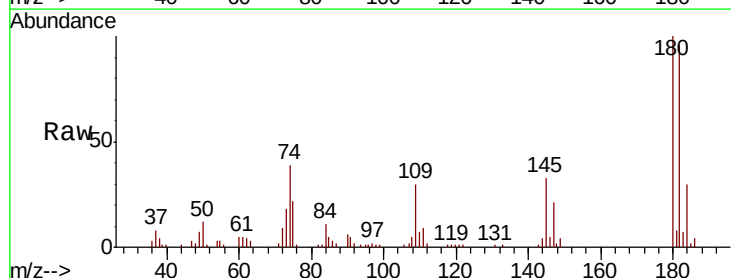
Instrument :
 MSVOA_V
 ClientSampleId :

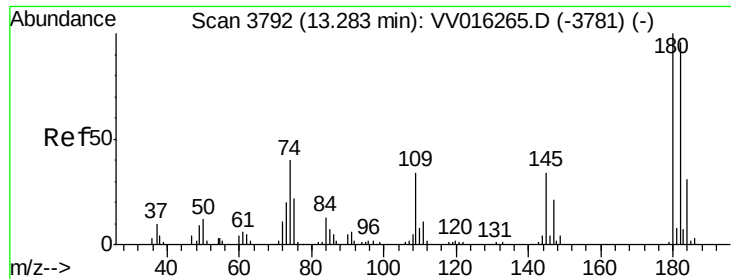
Tot Ion: 75 Resp: 3914
 Ion Ratio Lower Upper
 75 100
 155 69.4 56.2 84.4
 157 86.6 71.9 107.9



#68
 1,3,5-Trichlorobenzene
 Concen: 5.266 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion: 180 Resp: 46055
 Ion Ratio Lower Upper
 180 100
 182 95.0 77.1 115.7
 184 30.2 25.0 37.4
 145 33.2 26.3 39.5

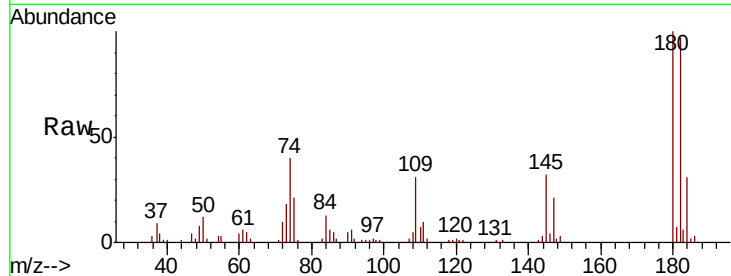




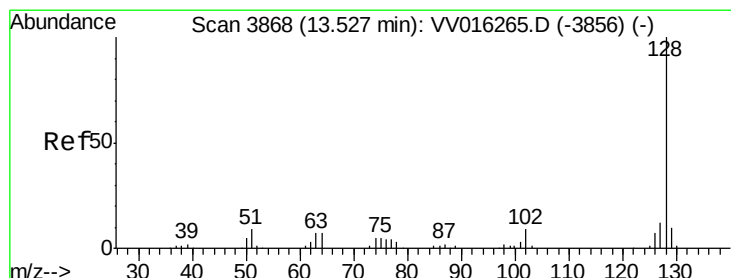
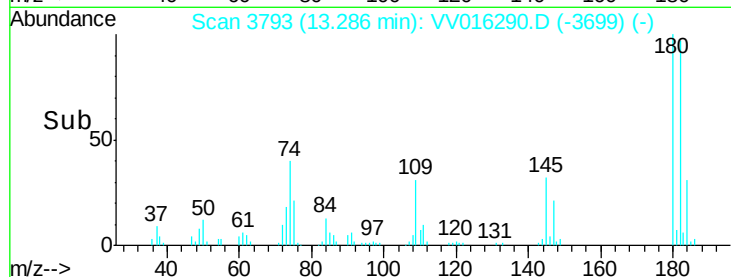
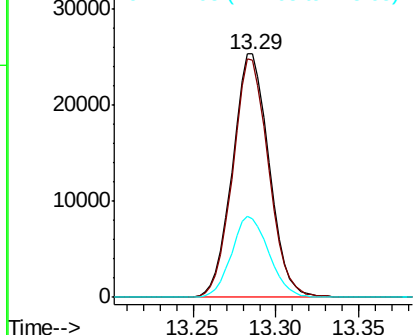
#69
 1,2,4-trichlorobenzene
 Concen: 5.049 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 38777
 Ion Ratio Lower Upper
 180 100
 182 96.0 75.0 112.4
 145 33.8 27.1 40.7

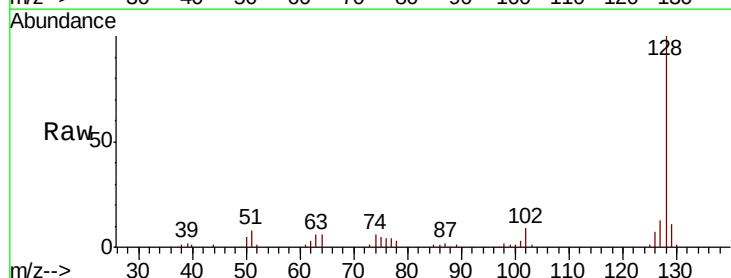


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

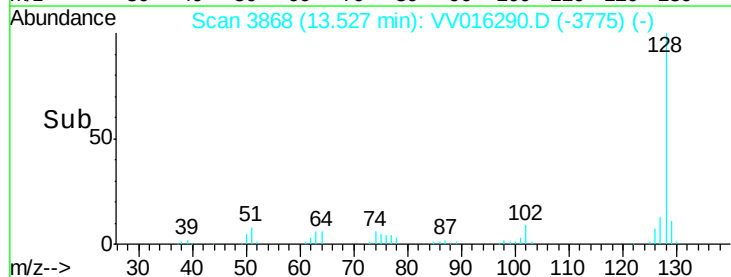
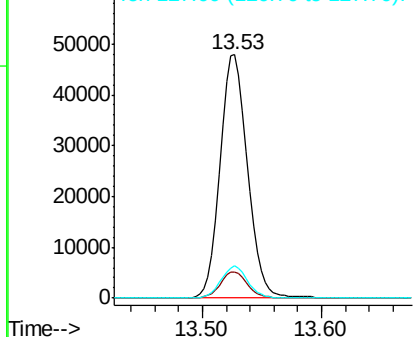


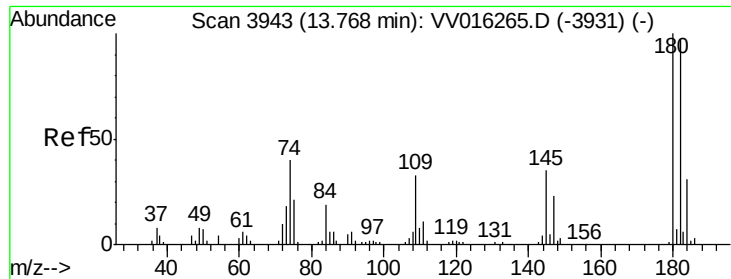
#70
 Naphthalene
 Concen: 4.569 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Tgt Ion:128 Resp: 76659
 Ion Ratio Lower Upper
 128 100
 129 10.6 8.6 13.0
 127 12.8 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

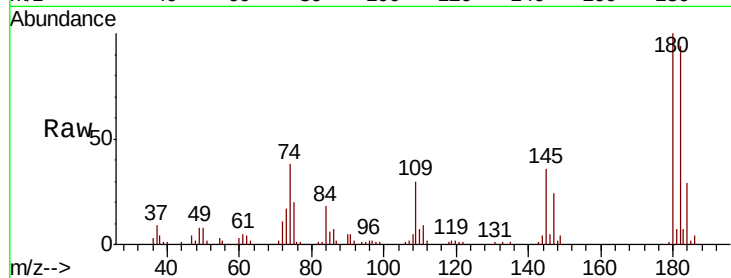




#71
 1,2,3-Trichlorobenzene
 Concen: 5.120 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VV016290.D
 Acq: 28 May 2020 20:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 35460
 Ion Ratio Lower Upper
 180 100
 182 94.3 77.1 115.7
 145 36.1 28.6 42.8



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

