

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\
 Data File : VV015713.D
 Acq On : 25 Apr 2020 22:54
 Operator : SY/MD
 Sample : L2413-20MS
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 27 01:19:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Apr 27 01:12:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	125942	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	121491	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	57038	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	36276	5.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	110.20%
7) Chloroethane-d5	1.58	69	27741	4.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.40%
11) 1,1-Dichloroethene-d2	2.13	63	82306	5.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	114.20%
20) 2-Butanone-d5	3.92	46	109390	51.76	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.52%
24) Chloroform-d	4.38	84	71043	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
26) 1,2-Dichloroethane-d4	5.06	65	41395	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.08	84	132044	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
36) 1,2-Dichloropropane-d6	6.09	67	44829	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.34	98	121234	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
43) trans-1,3-Dichloropropene-	7.64	79	10975	3.06	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	61.20%
46) 2-Hexanone-d5	8.11	63	81142	46.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.88%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	31862	4.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.40%
64) 1,2-Dichlorobenzene-d4	11.65	152	46139	4.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	1448285	145.305	ug/L	100
8) Chloroethane	1.41	64	101226	15.463	ug/L #	51
12) 1,1-Dichloroethene	2.13	96	67348	9.188	ug/L #	85
13) Acetone	2.19	43	1662	1.133	ug/L	83
14) Carbon disulfide	2.31	76	960	0.046	ug/L #	75
18) trans-1,2-Dichloroethene	2.78	96	100447	12.239	ug/L	98
19) 1,1-Dichloroethane	3.22	63	864	0.054	ug/L #	86
22) cis-1,2-Dichloroethene	3.94	96	11827020	1303.307	ug/L	95
27) 1,2-Dichloroethane	5.13	62	1802	0.160	ug/L #	78
30) Cyclohexane	4.70	56	10049	0.683	ug/L	96
33) Benzene	5.13	78	195402	5.629	ug/L	100
34) Trichloroethene	5.94	95	2065276	215.451	ug/L	98
35) Methylcyclohexane	6.15	83	4253	0.289	ug/L	94
37) 1,2-Dichloropropane	6.10	63	5748	0.651	ug/L #	86
42) Toluene	7.41	91	205925	5.552	ug/L	99
44) trans-1,3-Dichloropropene	7.65	75	597	0.058	ug/L	88
45) 1,1,2-Trichloroethane	8.00	97	37581	6.249	ug/L #	1

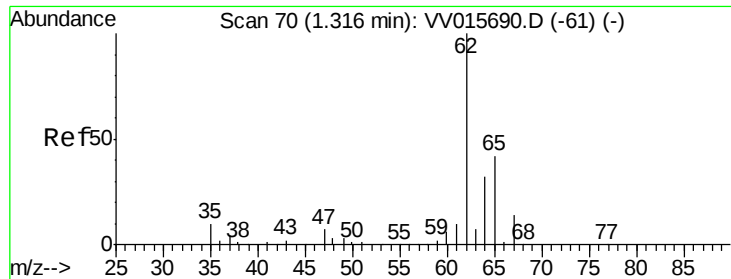
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\
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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Apr 27 01:12:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.00	164	3758698	544.577	ug/L	97
48) 2-Hexanone	8.11	43	11668	2.857	ug/L #	78
49) Dibromochloromethane	8.00	129	3720044	597.736	ug/L #	12
51) Chlorobenzene	8.90	112	132108	5.437	ug/L	97
65) 1,2-Dichlorobenzene	11.67	146	2584	0.158	ug/L #	87

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



#5

Vinyl chloride

Concen: 145.305 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA_V

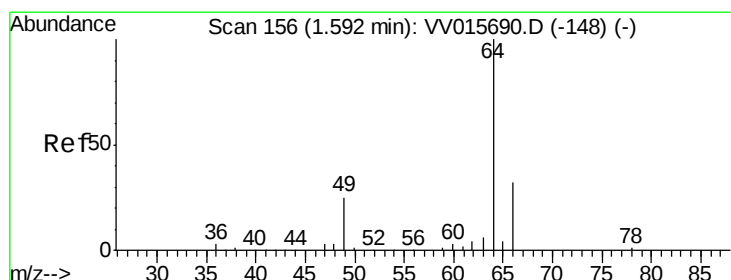
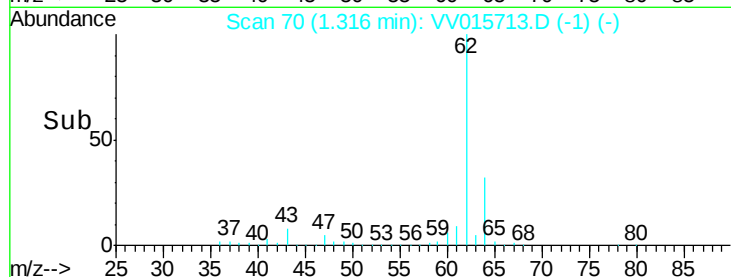
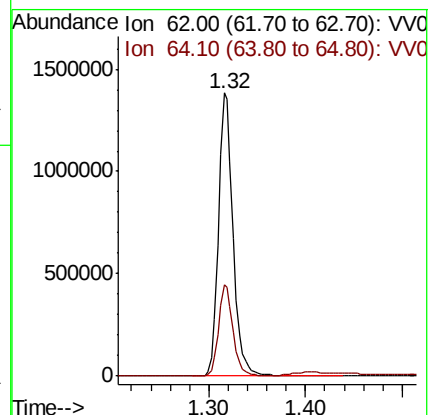
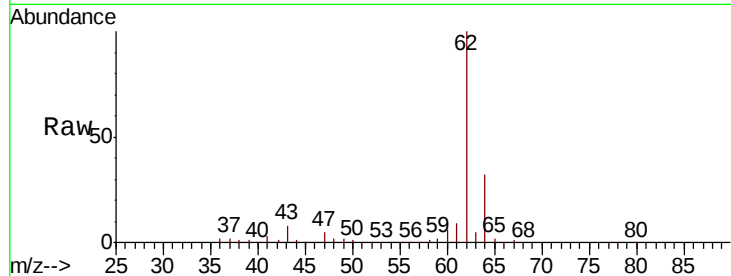
ClientSampled :

Tot Ion: 62 Resp: 1448285

Ion Ratio Lower Upper

62 100

64 32.1 22.7 42.1



#8

Chloroethane

Concen: 15.463 ug/L

RT: 1.41 min Scan# 98

Delta R.T. -0.19 min

Lab File: VV015713.D

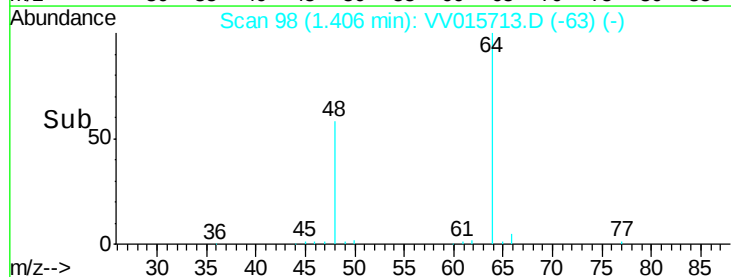
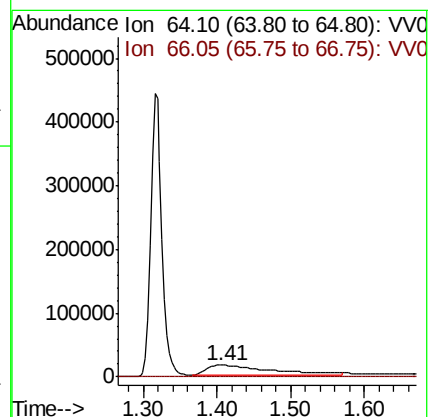
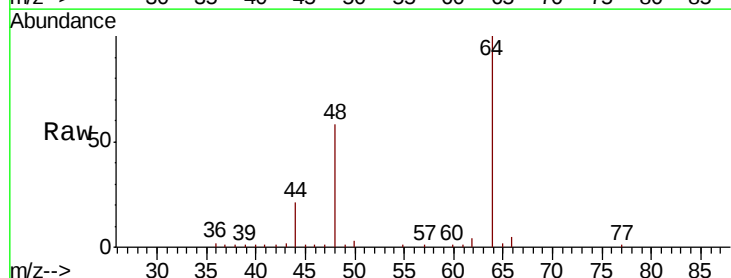
Acq: 25 Apr 2020 22:54

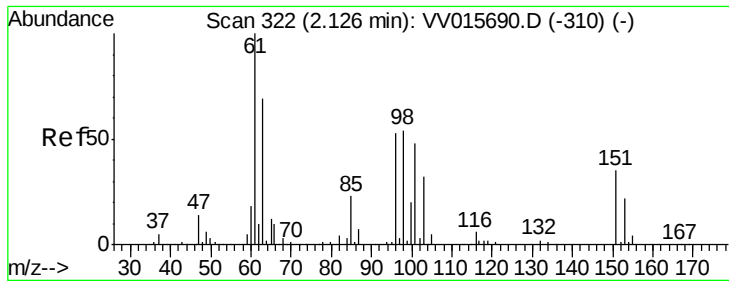
Tgt Ion: 64 Resp: 101226

Ion Ratio Lower Upper

64 100

66 4.9 22.3 41.5#





#12

1,1-Dichloroethene

Concen: 9.188 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA_V

ClientSampleId :

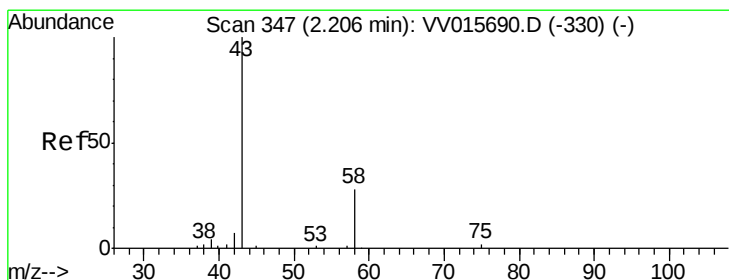
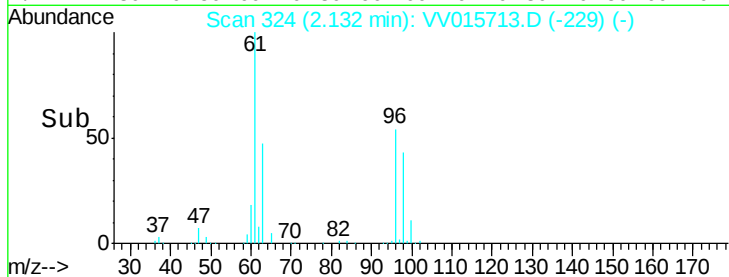
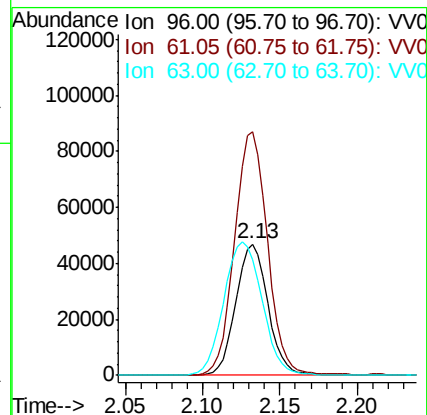
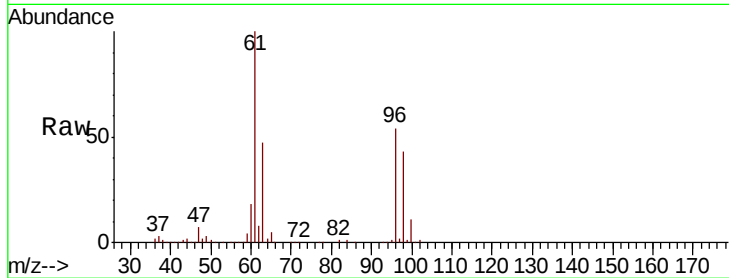
Tot Ion: 96 Resp: 67348

Ion Ratio Lower Upper

96 100

61 185.3 130.1 241.7

63 87.6 91.4 169.8#



#13

Acetone

Concen: 1.133 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.02 min

Lab File: VV015713.D

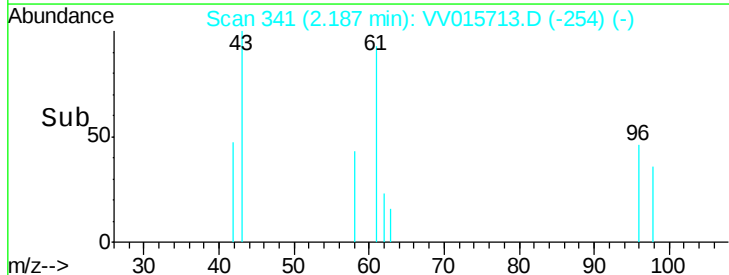
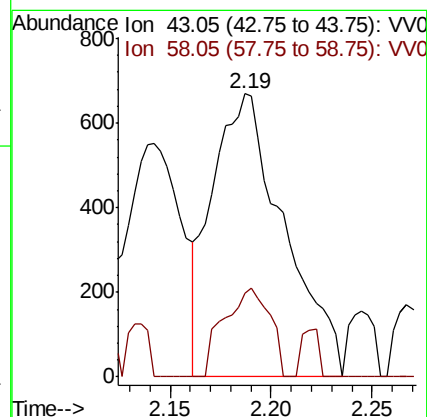
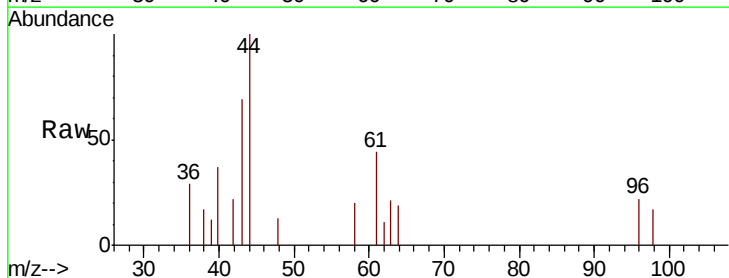
Acq: 25 Apr 2020 22:54

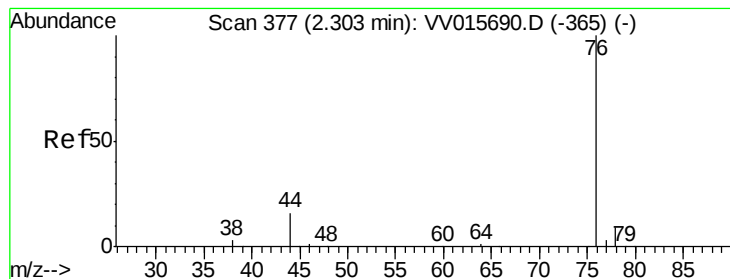
Tgt Ion: 43 Resp: 1662

Ion Ratio Lower Upper

43 100

58 19.9 0.0 57.6





#14

Carbon disulfide

Concen: 0.046 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA_V

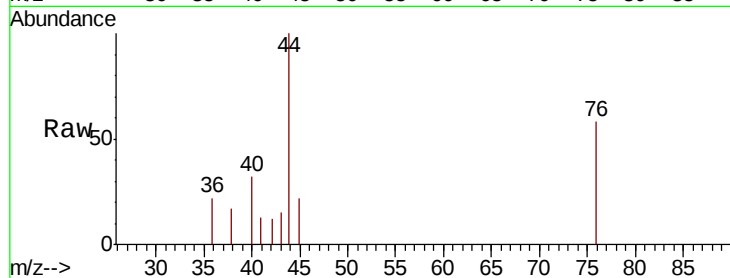
ClientSampled :

Tot Ion: 76 Resp: 960

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

500

400

300

200

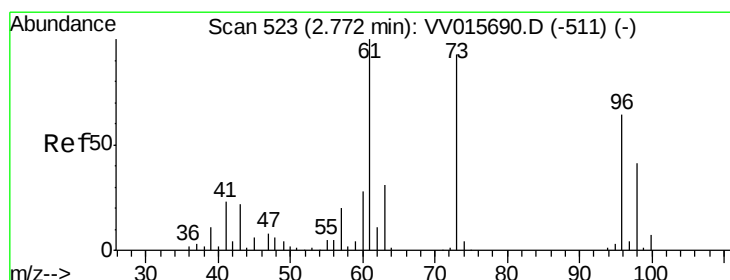
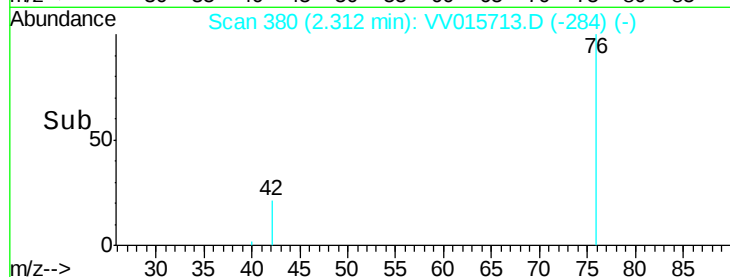
100

0

2.30

2.35

Time-->



#18

trans-1,2-Dichloroethene

Concen: 12.239 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

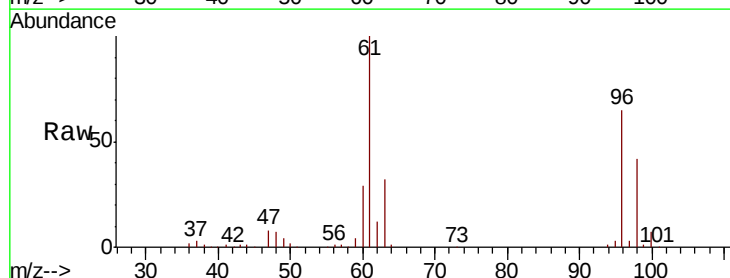
Tgt Ion: 96 Resp: 100447

Ion Ratio Lower Upper

96 100

61 154.2 105.5 195.9

98 64.6 44.2 82.0



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

120000

100000

80000

60000

40000

20000

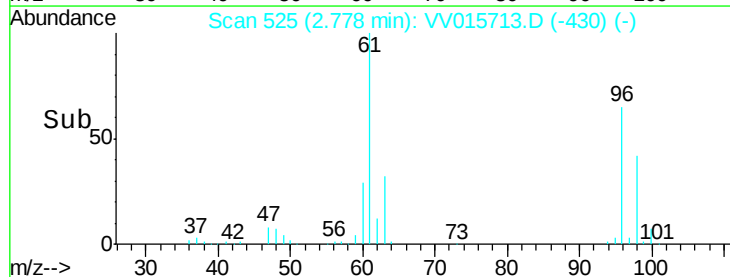
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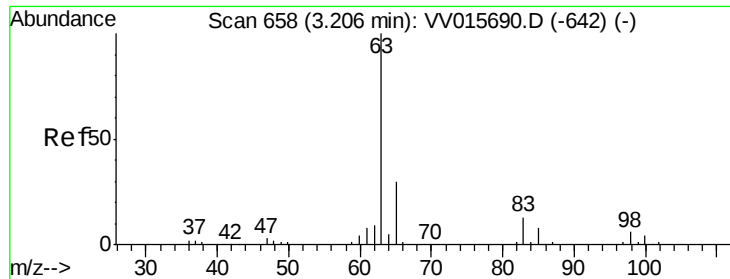
2.70

2.80

2.90

Time-->

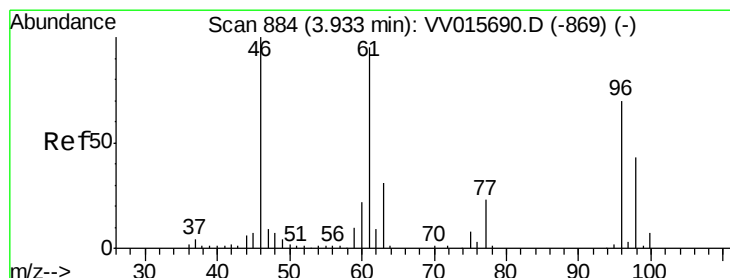
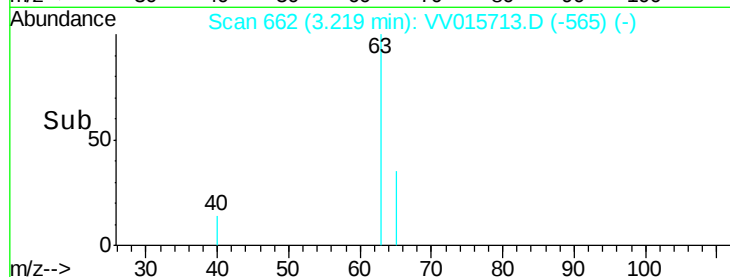
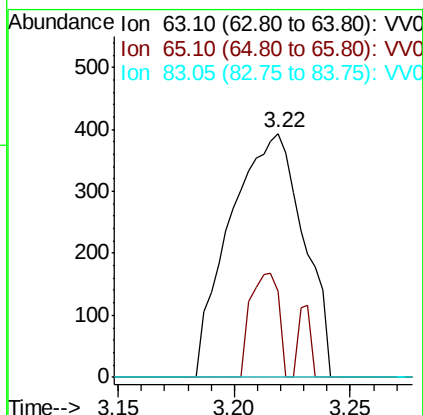
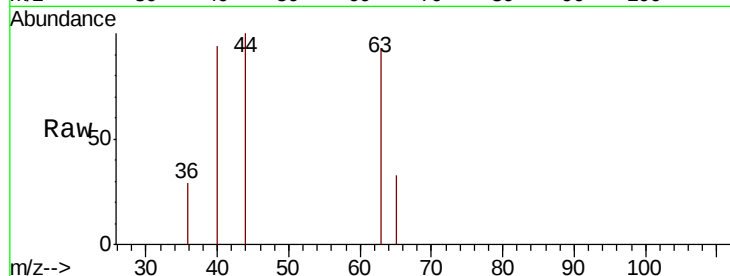




#19
 1,1-Dichloroethane
 Concen: 0.054 ug/L
 RT: 3.22 min Scan# 662
 Delta R.T. 0.01 min
 Lab File: VV015713.D
 Acq: 25 Apr 2020 22:54

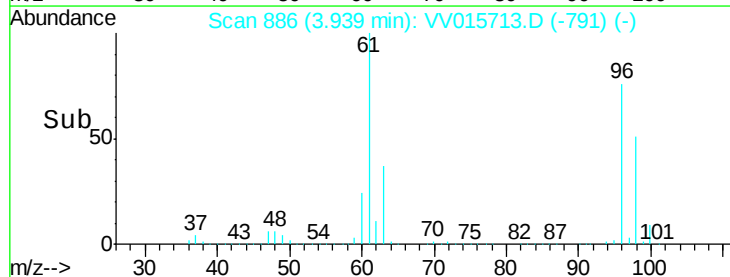
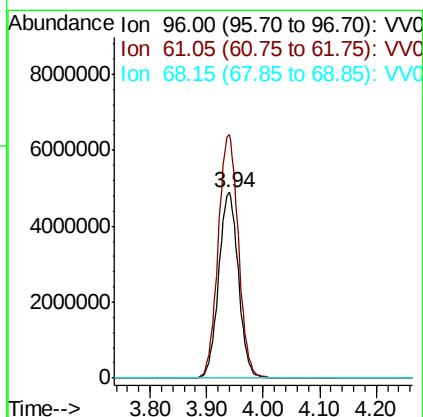
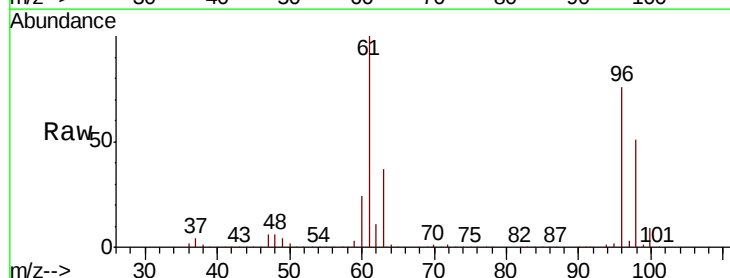
Instrument :
 MSVOA_V
 ClientSampled :

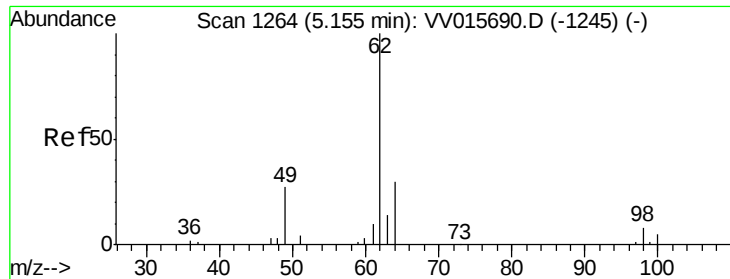
Tot Ion: 63 Resp: 864
 Ion Ratio Lower Upper
 63 100
 65 35.4 22.3 41.3
 83 0.0 9.3 17.3#



#22
 cis-1,2-Dichloroethene
 Concen: 1303.307 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.01 min
 Lab File: VV015713.D
 Acq: 25 Apr 2020 22:54

Tgt Ion: 96 Resp: 11827020
 Ion Ratio Lower Upper
 96 100
 61 131.3 96.4 179.0
 68 0.0 0.0 0.0

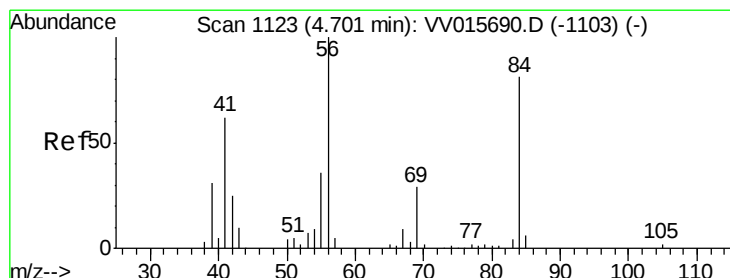
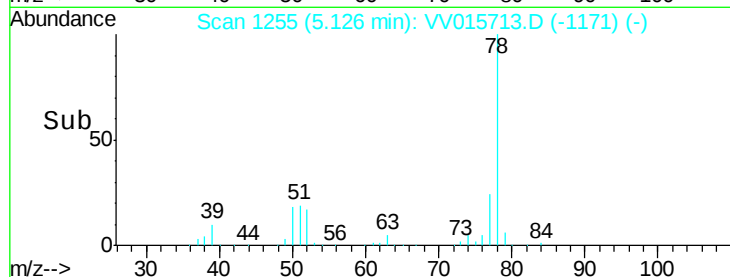
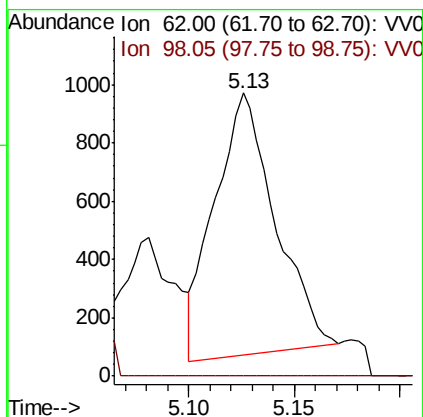
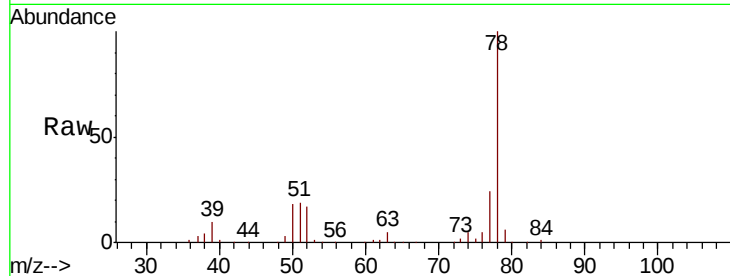




#27
 1,2-Dichloroethane
 Concen: 0.160 ug/L
 RT: 5.13 min Scan# 1255
 Delta R.T. -0.03 min
 Lab File: VV015713.D
 Acq: 25 Apr 2020 22:54

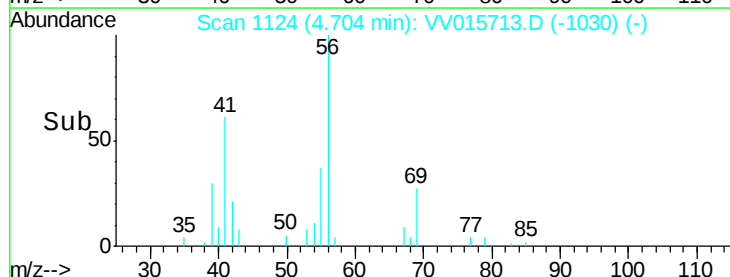
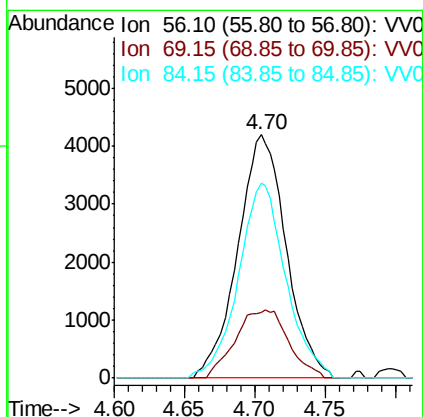
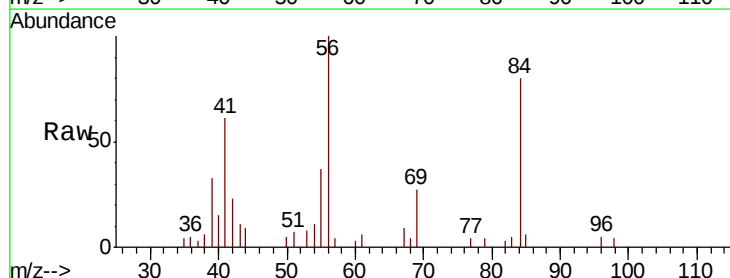
Instrument :
 MSVOA_V
 ClientSampled :

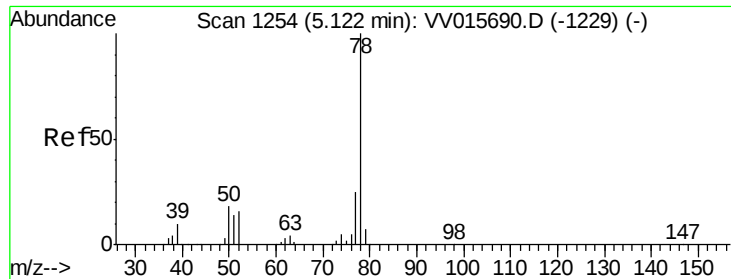
Tot Ion: 62 Resp: 1802
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.3 9.5#



#30
 Cyclohexane
 Concen: 0.683 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VV015713.D
 Acq: 25 Apr 2020 22:54

Tgt Ion: 56 Resp: 10049
 Ion Ratio Lower Upper
 56 100
 69 30.6 23.9 35.9
 84 78.6 66.9 100.3

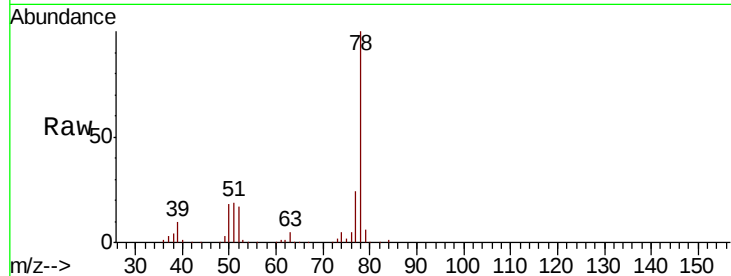




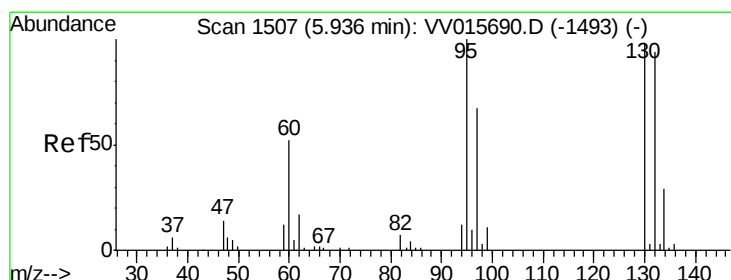
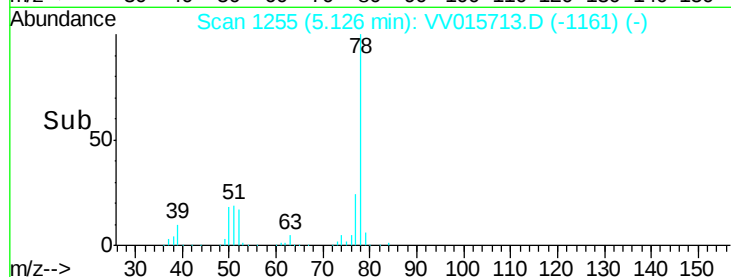
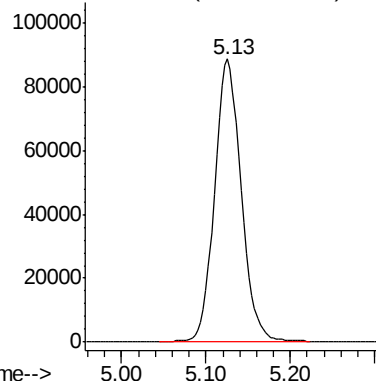
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Benzene
Concen: 5.629 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 195402



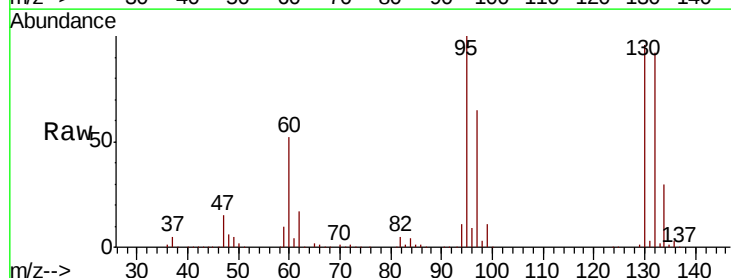
Abundance Ion 78.10 (77.80 to 78.80): VV0



#34
Trichloroethene
Concen: 215.451 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

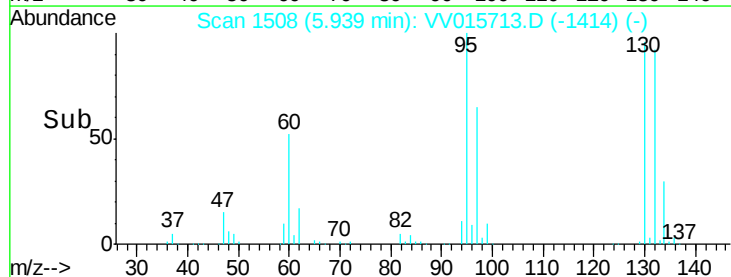
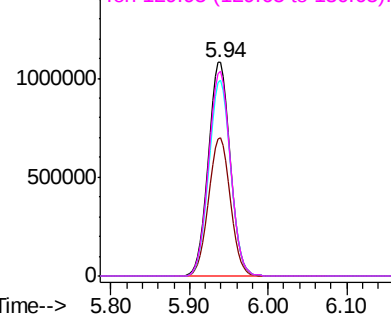
Tgt Ion: 95 Resp: 2065276

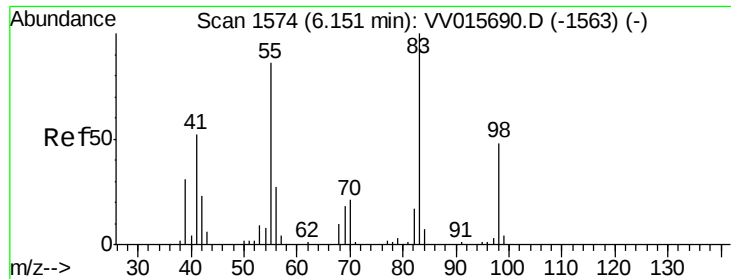
Ion	Ratio	Lower	Upper
95	100		
97	64.7	44.7	82.9
132	91.8	65.2	121.0
130	95.8	65.0	120.6



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0
Ion 131.95 (131.65 to 132.65): VV0
Ion 129.95 (129.65 to 130.65): VV0

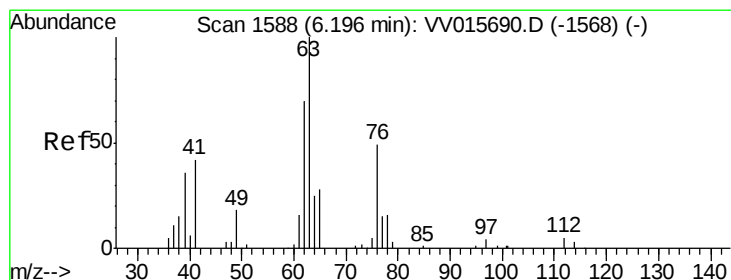
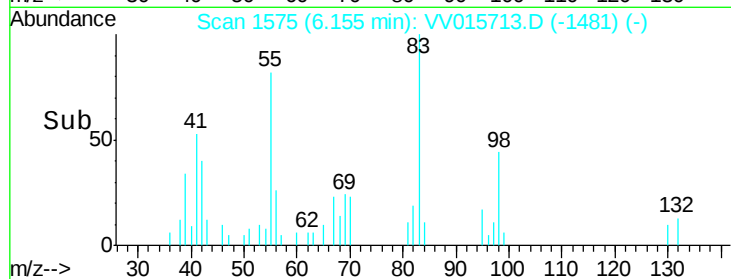
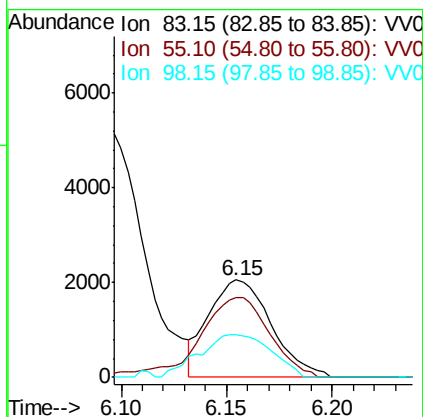
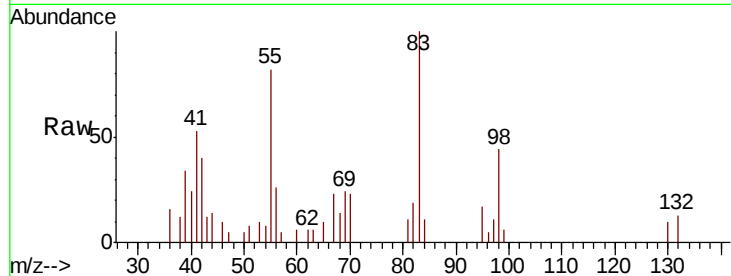




#35
Methvlcvclohexane
Concen: 0.289 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

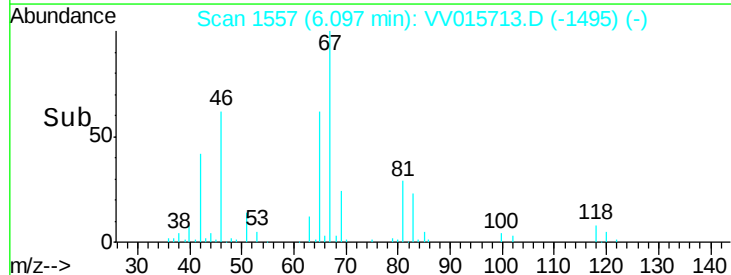
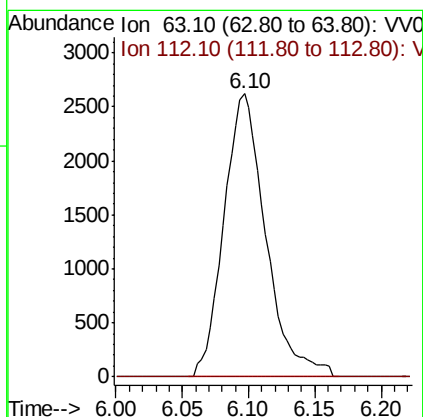
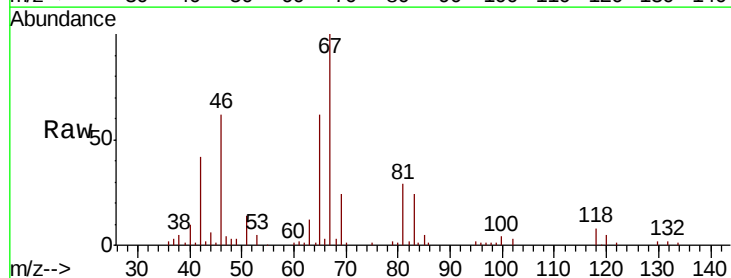
Instrument :
MSVOA_V
ClientSampleId :

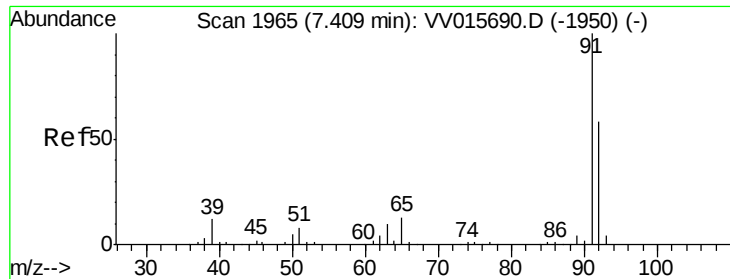
Tot Ion: 83 Resp: 4253
Ion Ratio Lower Upper
83 100
55 91.7 66.6 99.8
98 50.0 39.5 59.3



#37
1,2-Dichloropropane
Concen: 0.651 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

Tgt Ion: 63 Resp: 5748
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#





#42

Toluene

Concen: 5.552 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA_V

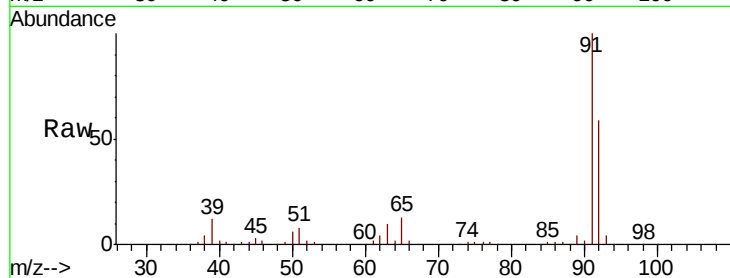
ClientSampled :

Tot Ion: 91 Resp: 205925

Ion Ratio Lower Upper

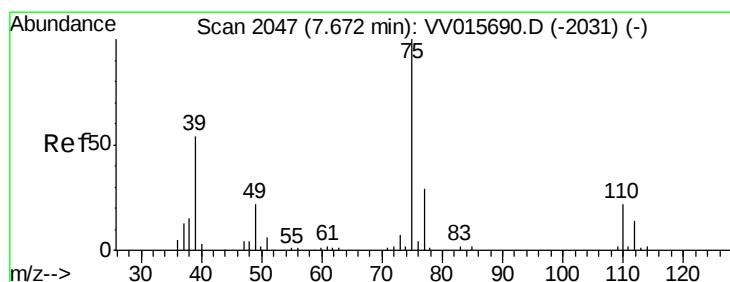
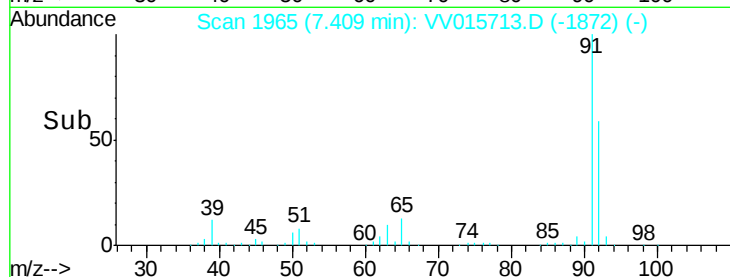
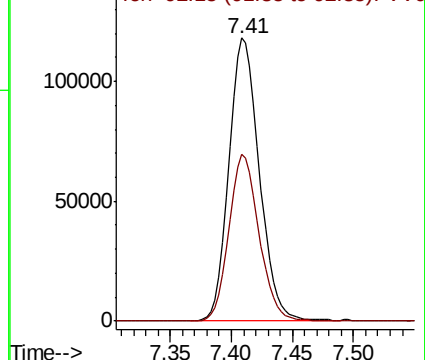
91 100

92 58.8 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.058 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015713.D

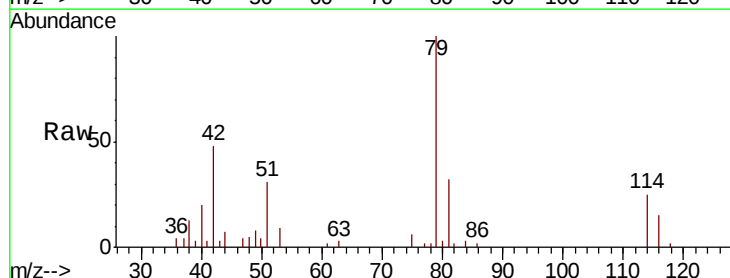
Acq: 25 Apr 2020 22:54

Tgt Ion: 75 Resp: 597

Ion Ratio Lower Upper

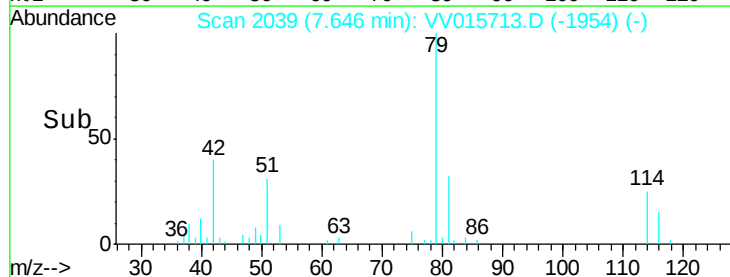
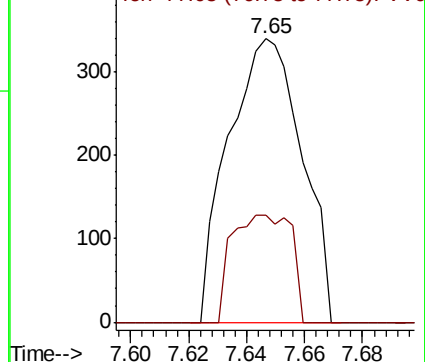
75 100

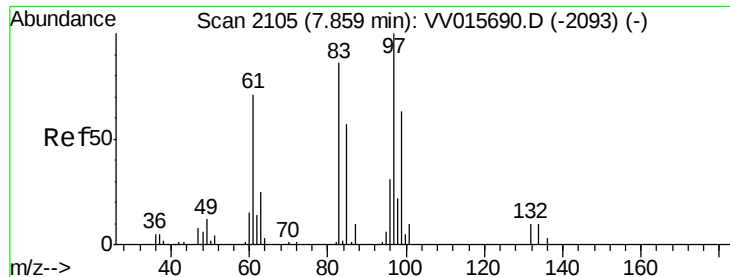
77 37.9 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





#45

1,1,2-Trichloroethane

Concen: 6.249 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.14 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 97 Resp: 37581

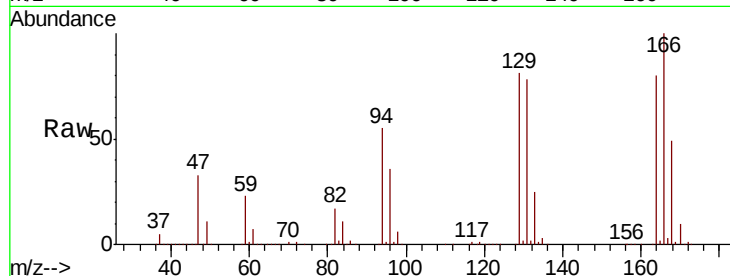
Ion Ratio Lower Upper

97 100

99 16.7 45.4 84.4#

83 258.9 61.3 113.9#

85 40.2 38.4 71.4

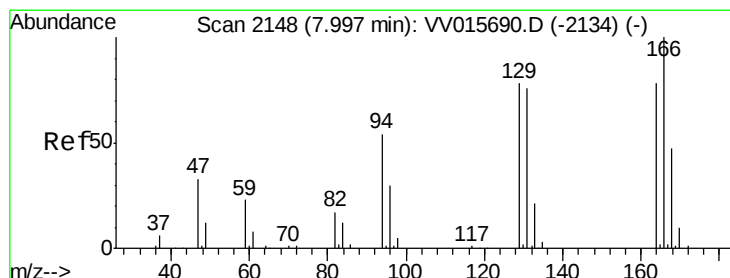
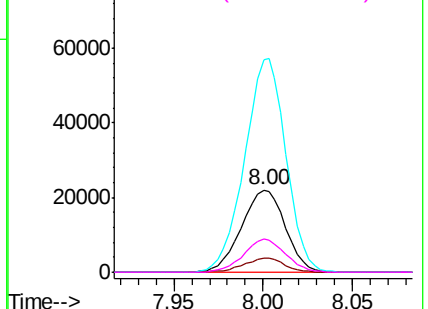
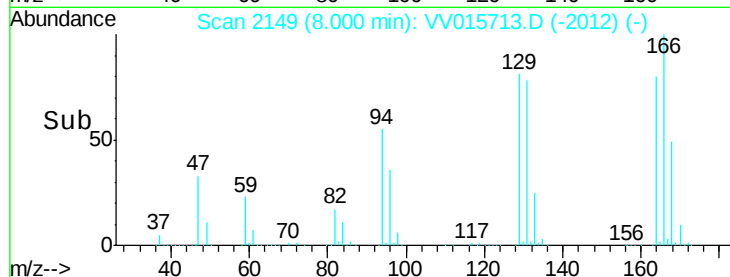


Abundance Ion 96.95 (96.65 to 97.65): VV015690.D (-2093) (-)

Ion 99.05 (98.75 to 99.75): VV015690.D (-2093) (-)

Ion 82.95 (82.65 to 83.65): VV015690.D (-2093) (-)

Ion 85.00 (84.70 to 85.70): VV015690.D (-2093) (-)



#47

Tetrachloroethene

Concen: 544.577 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Tgt Ion: 164 Resp: 3758698

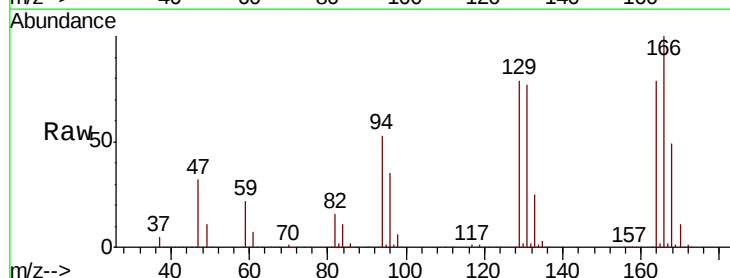
Ion Ratio Lower Upper

164 100

129 100.0 66.7 123.9

131 96.6 66.6 123.6

166 125.9 85.3 158.5

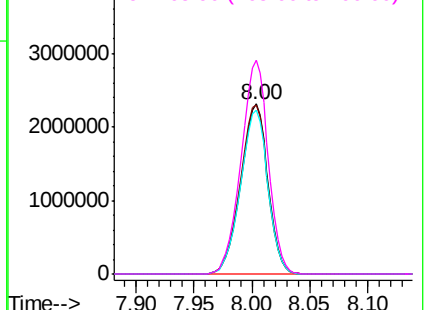
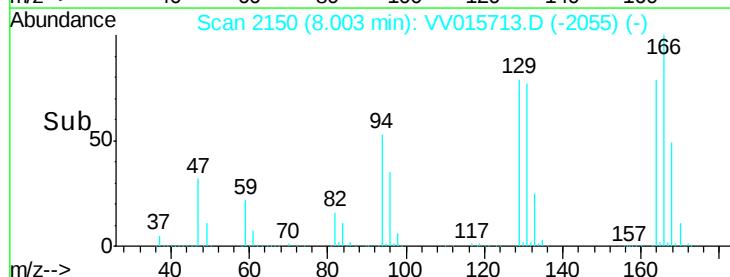


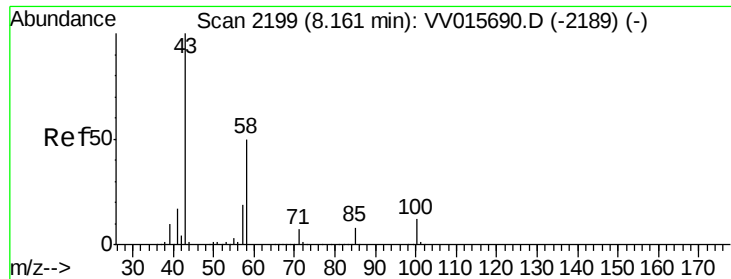
Abundance Ion 163.90 (163.60 to 164.60): VV015690.D (-2134) (-)

Ion 128.95 (128.65 to 129.65): VV015690.D (-2134) (-)

Ion 130.95 (130.65 to 131.65): VV015690.D (-2134) (-)

Ion 165.90 (165.60 to 166.60): VV015690.D (-2134) (-)

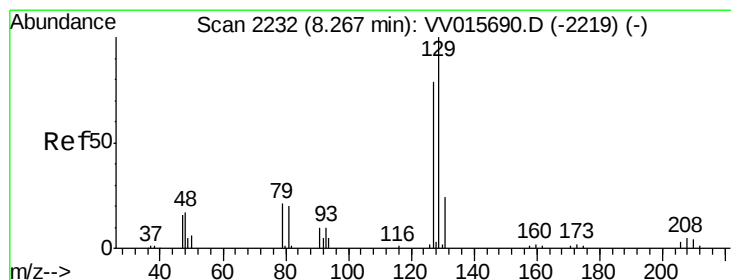
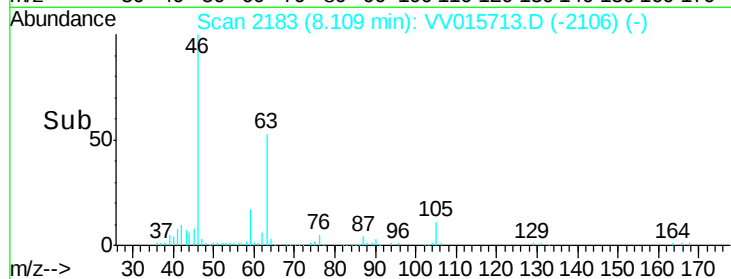
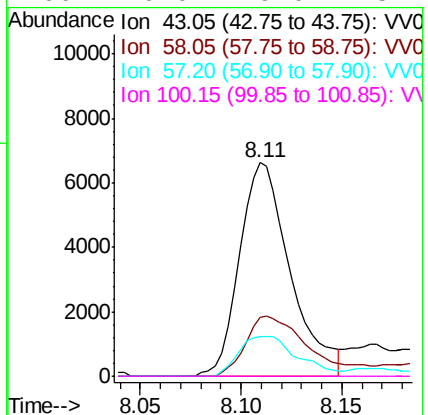
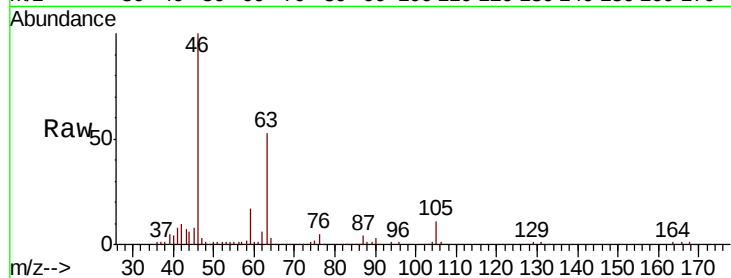




#48
2-Hexanone
Concen: 2.857 ug/L
RT: 8.11 min Scan# 2183
Delta R.T. -0.05 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

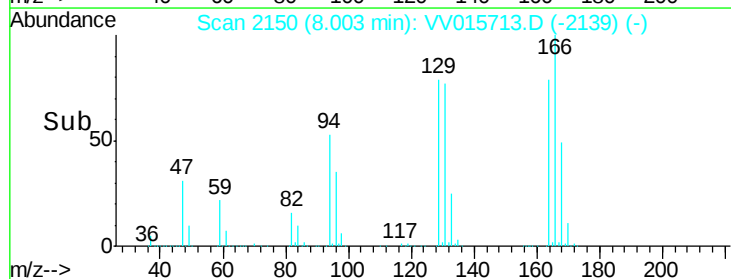
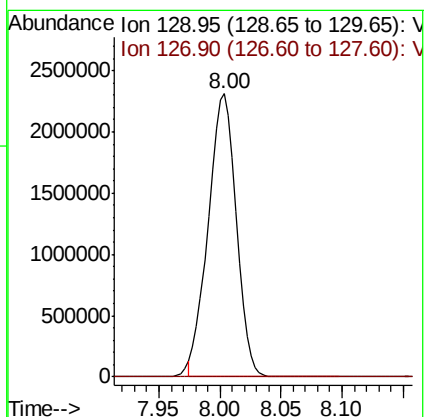
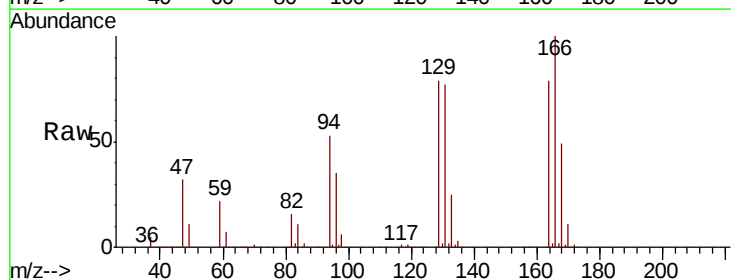
Instrument :
MSVOA_V
ClientSampleId :

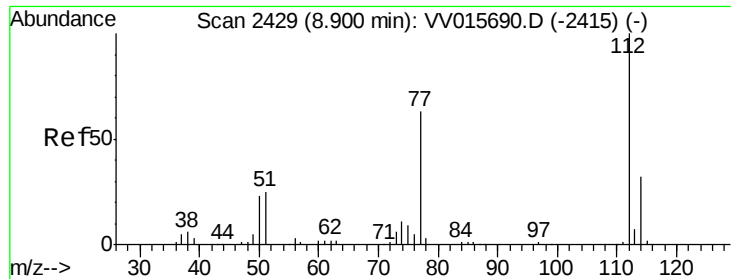
Tot Ion: 43 Resp: 11668
Ion Ratio Lower Upper
43 100
58 33.5 41.1 61.7#
57 21.5 15.0 22.4
100 0.0 9.0 13.4#



#49
Dibromochloromethane
Concen: 597.736 ug/L
RT: 8.00 min Scan# 2150
Delta R.T. -0.26 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

Tgt Ion: 129 Resp: 3720044
Ion Ratio Lower Upper
129 100
127 0.0 52.6 97.8#

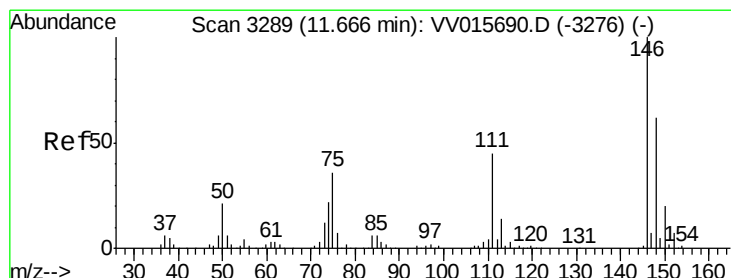
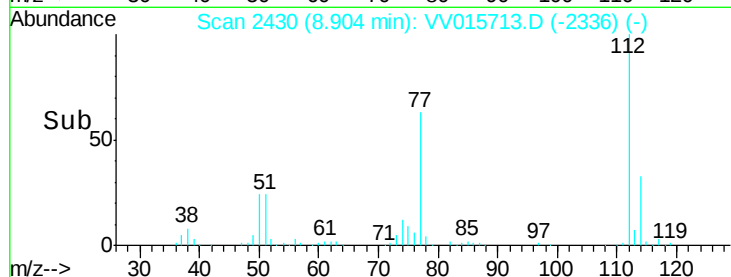
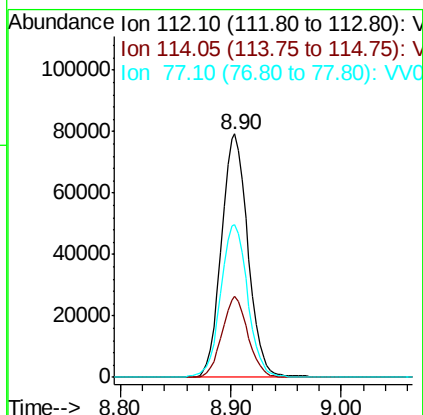
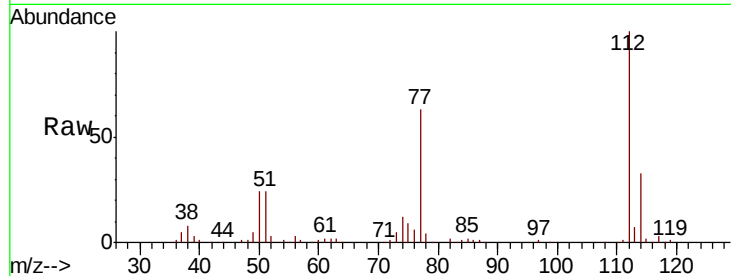




#51
Chlorobenzene
Concen: 5.437 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 132108
Ion Ratio Lower Upper
112 100
114 33.3 21.6 40.2
77 62.7 48.9 73.3



#65
1,2-Dichlorobenzene
Concen: 0.158 ug/L
RT: 11.67 min Scan# 3289
Delta R.T. -0.00 min
Lab File: VV015713.D
Acq: 25 Apr 2020 22:54

Tgt Ion:146 Resp: 2584
Ion Ratio Lower Upper
146 100
111 63.8 34.7 52.1#
148 63.6 51.3 76.9

