

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042420\
 Data File : VV015669.D
 Acq On : 24 Apr 2020 13:24
 Operator : SY/MD
 Sample : L2416-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 25 00:17:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 25 00:15:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	133530	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	129118	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	62737	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	62824	9.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	180.00%#
7) Chloroethane-d5	1.58	69	32626	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.00%
11) 1,1-Dichloroethene-d2	2.12	63	51282	3.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.20%
20) 2-Butanone-d5	3.90	46	106933	47.72	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.44%
24) Chloroform-d	4.37	84	78263	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.05	65	43343	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
32) Benzene-d6	5.07	84	143987	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
36) 1,2-Dichloropropane-d6	6.09	67	46148	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.33	98	130994	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
43) trans-1,3-Dichloropropene-	7.64	79	16448	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.11	63	76868	41.39	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.78%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	33290	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.80%
64) 1,2-Dichlorobenzene-d4	11.65	152	51394	4.82	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.40%

Target Compounds

					Ovalue
3) Chloromethane	1.32	50	38461	3.887 ug/L #	44
5) Vinyl chloride	1.32	62	3879267	367.086 ug/L	94
8) Chloroethane	1.32	64	1411058	203.305 ug/L #	43
12) 1,1-Dichloroethene	2.13	96	4990	0.642 ug/L #	1
14) Carbon disulfide	2.31	76	4804	0.219 ug/L	100
17) Methyl tert-butyl Ether	2.78	73	6347	0.291 ug/L #	84
18) trans-1,2-Dichloroethene	2.78	96	7706	0.886 ug/L	98
19) 1,1-Dichloroethane	3.21	63	1085	0.064 ug/L #	84
22) cis-1,2-Dichloroethene	3.93	96	3360825	349.308 ug/L	98
33) Benzene	5.13	78	4708	0.128 ug/L	100
34) Trichloroethene	5.94	95	34644	3.401 ug/L	98
37) 1,2-Dichloropropane	6.09	63	5892	0.628 ug/L #	86
39) cis-1,3-Dichloropropene	7.01	75	1590	0.122 ug/L #	80
42) Toluene	7.41	91	3547	0.090 ug/L	91
44) trans-1,3-Dichloropropene	7.64	75	980	0.089 ug/L #	69
45) 1,1,2-Trichloroethane	7.99	97	1632	0.255 ug/L #	14
47) Tetrachloroethene	7.99	164	157314	21.446 ug/L	96

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 25 00:15:39 2020
Response via : Initial Calibration

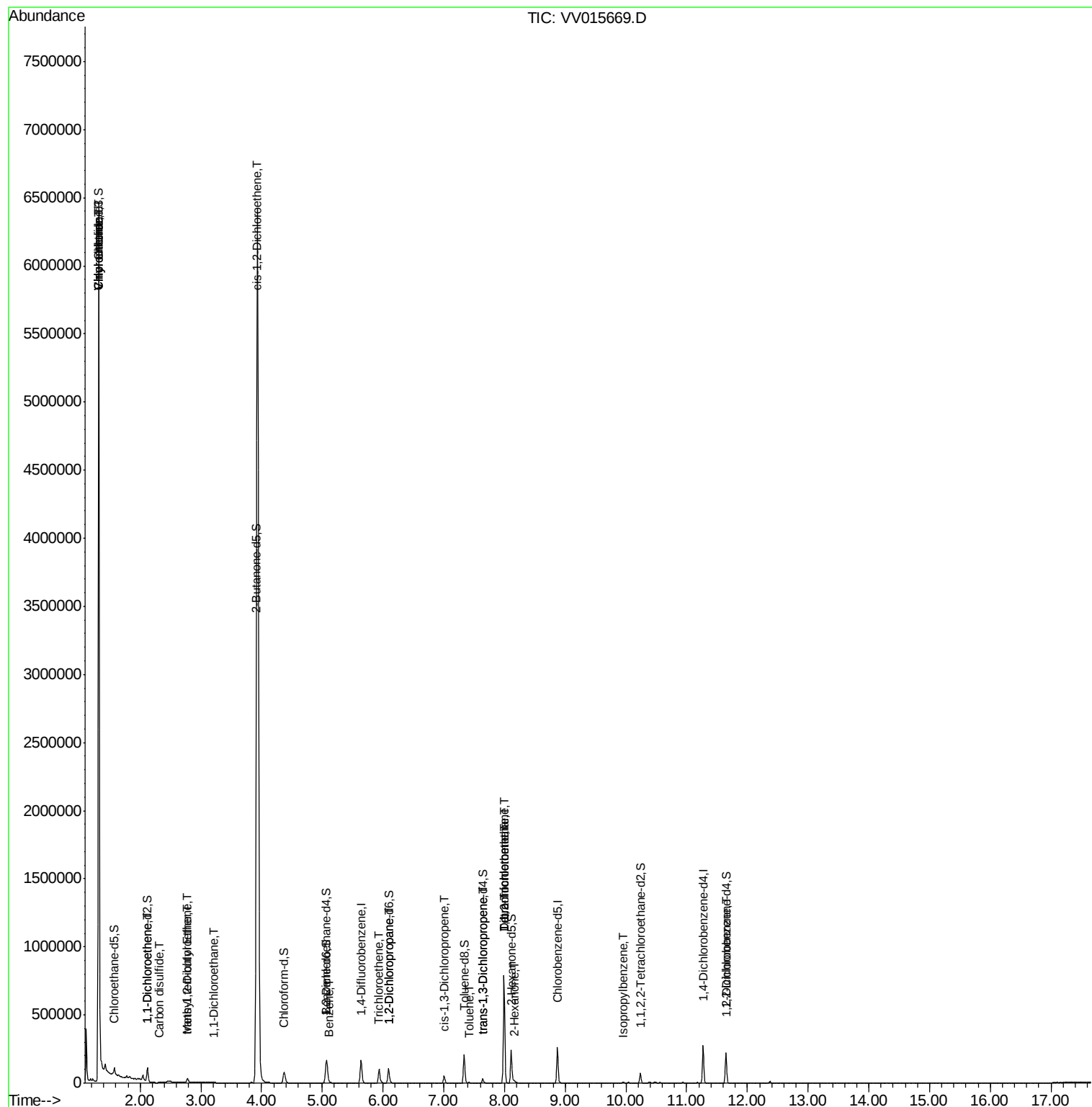
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.16	43	4761	1.097	ug/L #	85
49) Dibromochloromethane	7.99	129	150930	22.819	ug/L #	12
56) Isopropylbenzene	9.95	105	3092	0.068	ug/L	95
65) 1,2-Dichlorobenzene	11.67	146	2145	0.119	ug/L	92

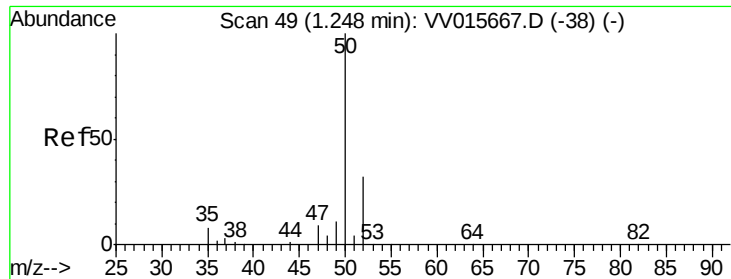
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 3.887 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.07 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

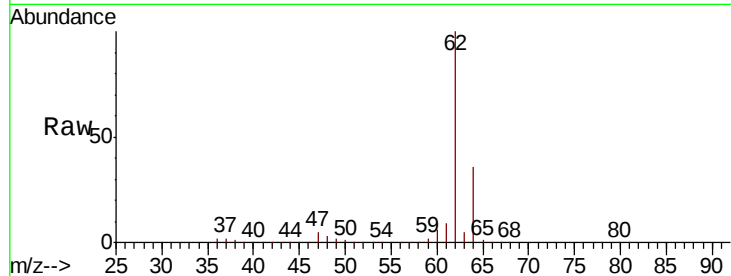
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 38461

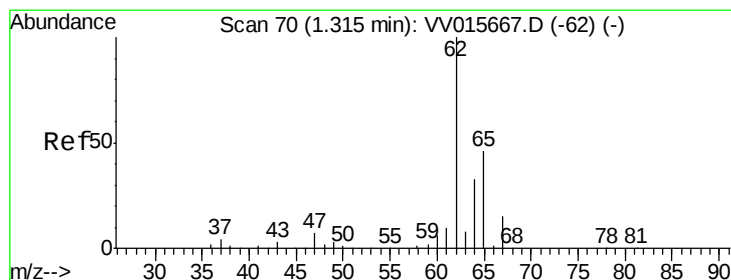
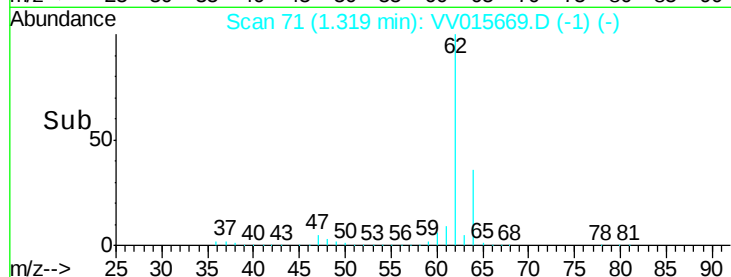
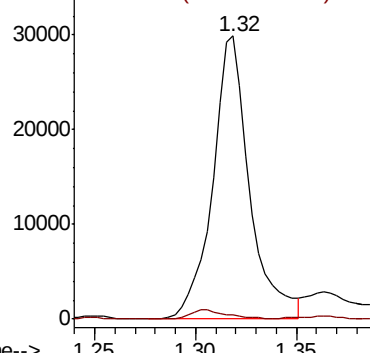
Ion Ratio Lower Upper

50 100

52 1.4 22.9 42.5#



Abundance Ion 50.05 (49.75 to 50.75): VV0
Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 367.086 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015669.D

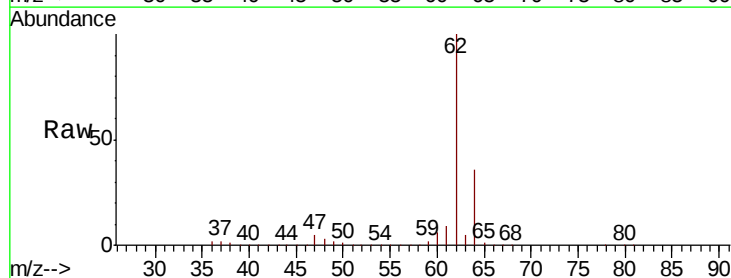
Acq: 24 Apr 2020 13:24

Tgt Ion: 62 Resp: 3879267

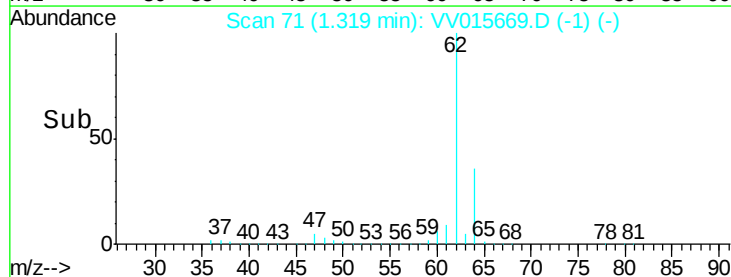
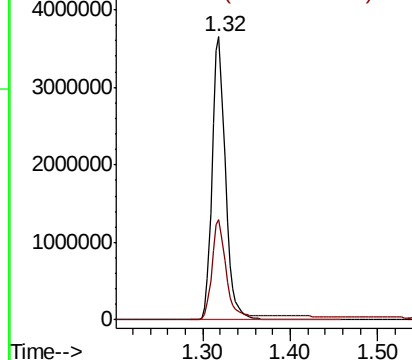
Ion Ratio Lower Upper

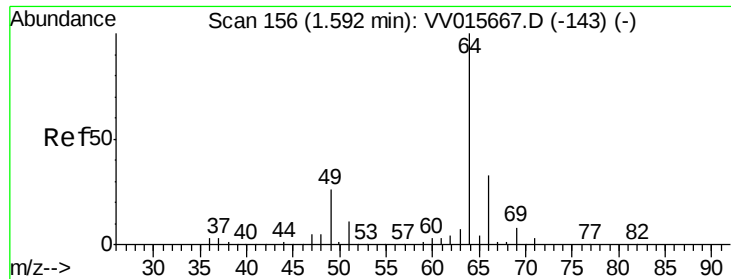
62 100

64 35.5 22.7 42.1



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





#8

Chloroethane

Concen: 203.305 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.27 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

Instrument :

MSVOA_V

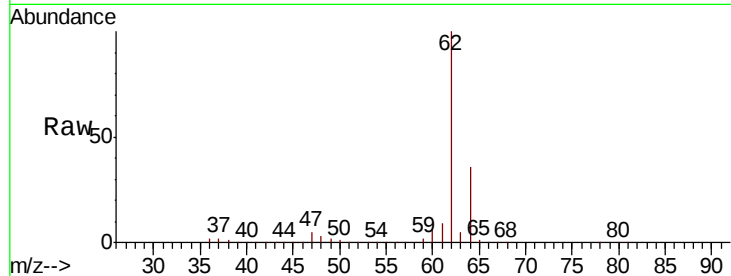
ClientSampled :

Tot Ion: 64 Resp: 1411058

Ion Ratio Lower Upper

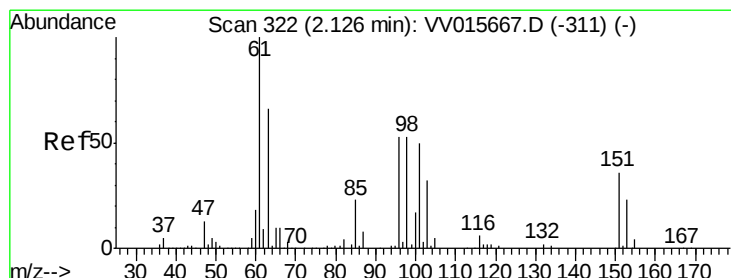
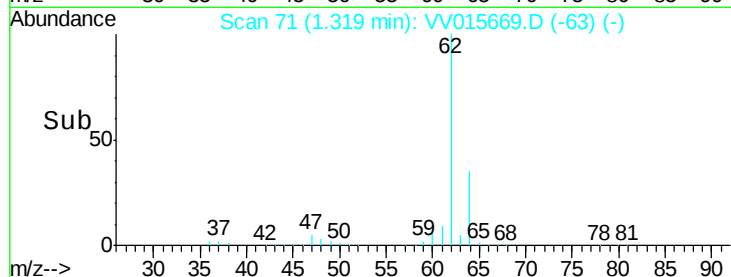
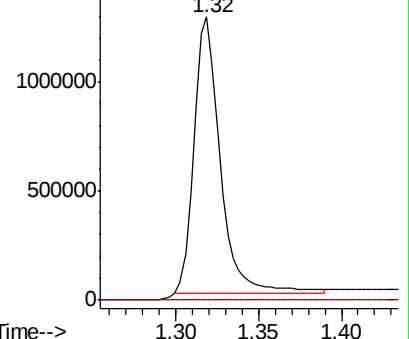
64 100

66 0.3 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



#12

1,1-Dichloroethene

Concen: 0.642 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

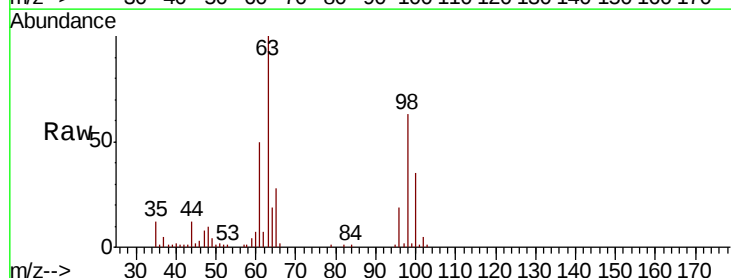
Tgt Ion: 96 Resp: 4990

Ion Ratio Lower Upper

96 100

61 258.7 130.1 241.7#

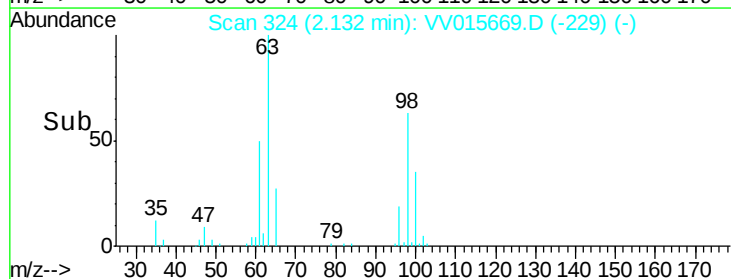
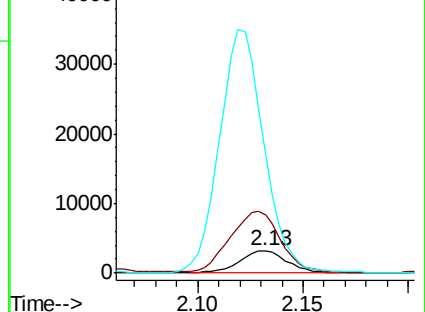
63 517.9 91.4 169.8#

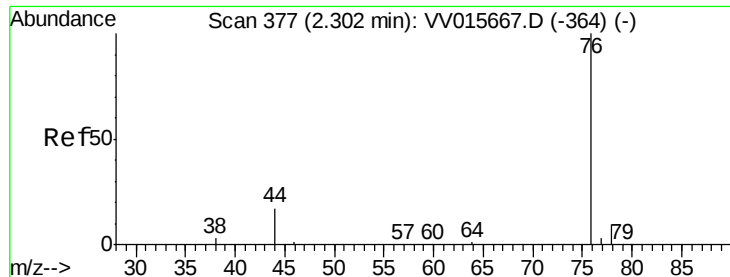


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

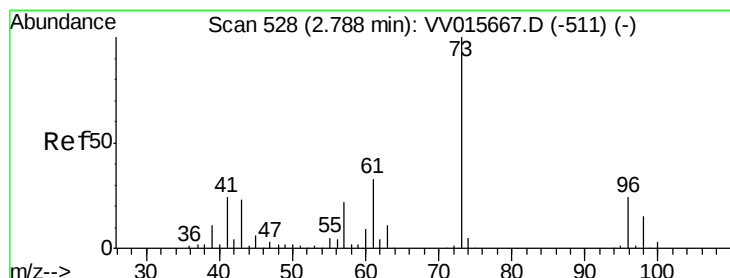
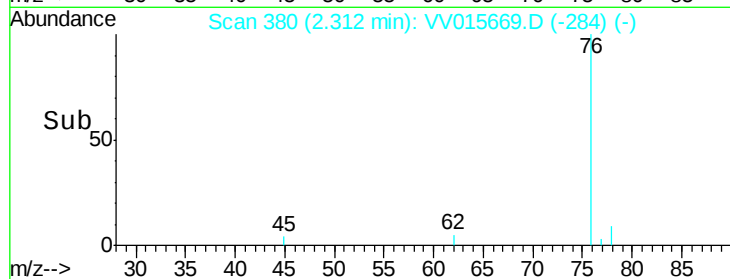
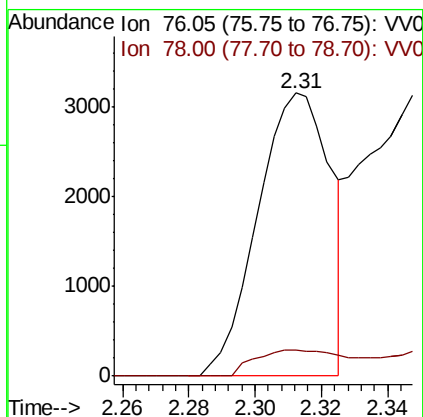
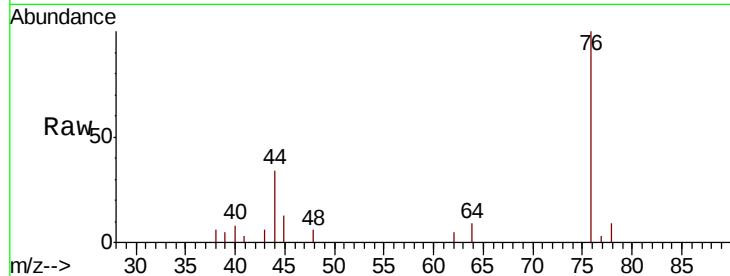




#14
Carbon disulfide
Concen: 0.219 ug/L
RT: 2.31 min Scan# 380
Delta R.T. 0.01 min
Lab File: VV015669.D
Acq: 24 Apr 2020 13:24

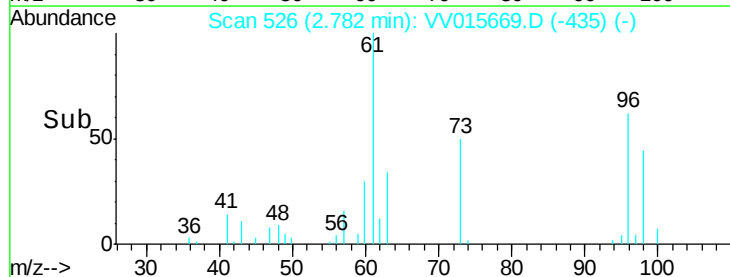
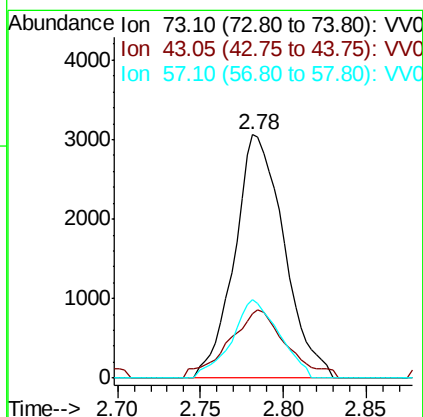
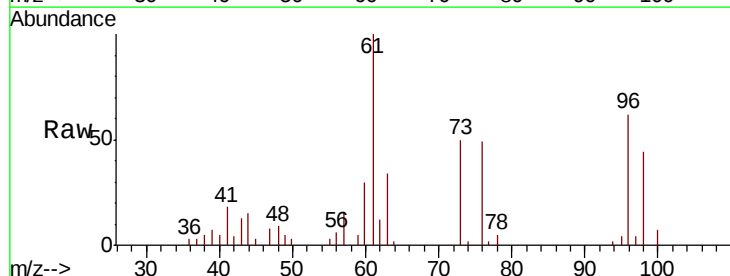
Instrument :
MSVOA_V
ClientSampleId :

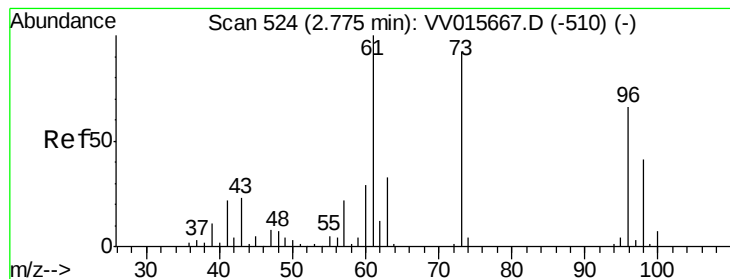
Tot Ion: 76 Resp: 4804
Ion Ratio Lower Upper
76 100
78 9.3 7.4 11.0



#17
Methyl tert-butyl Ether
Concen: 0.291 ug/L
RT: 2.78 min Scan# 526
Delta R.T. -0.01 min
Lab File: VV015669.D
Acq: 24 Apr 2020 13:24

Tgt Ion: 73 Resp: 6347
Ion Ratio Lower Upper
73 100
43 32.3 20.1 30.1#
57 30.8 17.8 26.8#





#18

trans-1,2-Dichloroethene

Concen: 0.886 ug/L

RT: 2.78 min Scan# 524

Delta R.T. 0.00 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

Instrument :
MSVOA_V
ClientSampled :

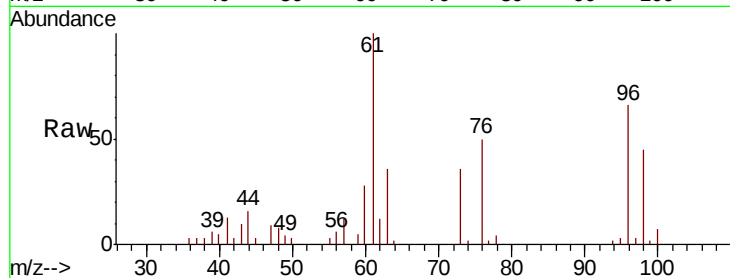
Tot Ion: 96 Resp: 7706

Ion Ratio Lower Upper

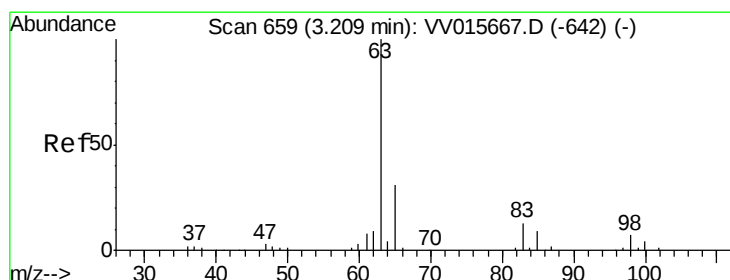
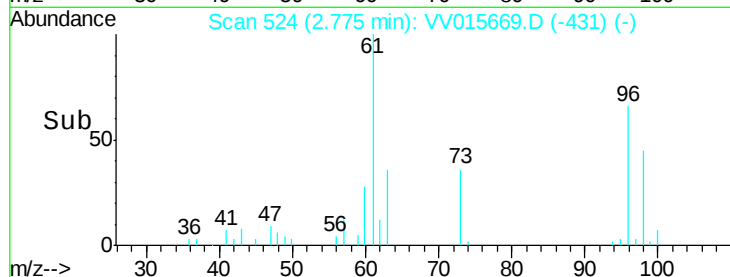
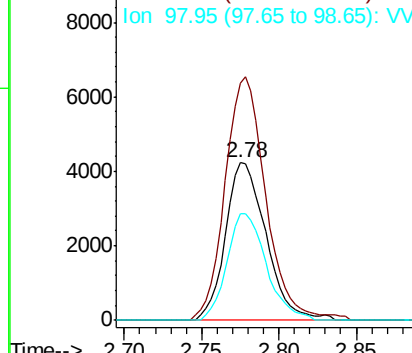
96 100

61 150.8 105.5 195.9

98 67.6 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



#19

1,1-Dichloroethane

Concen: 0.064 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

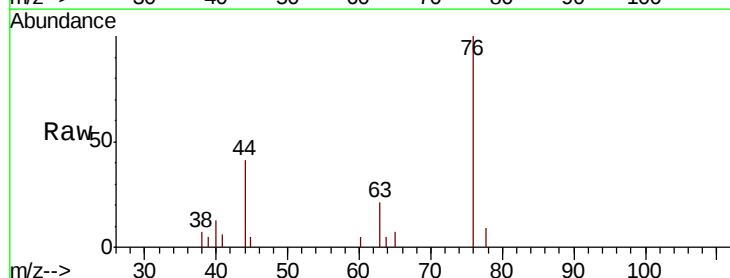
Tgt Ion: 63 Resp: 1085

Ion Ratio Lower Upper

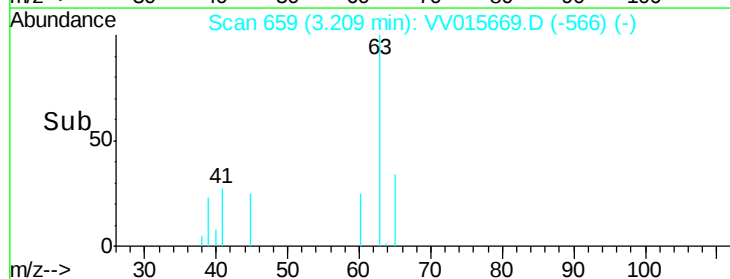
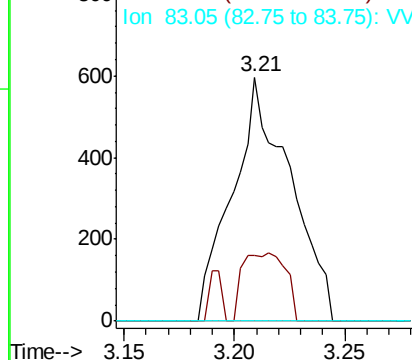
63 100

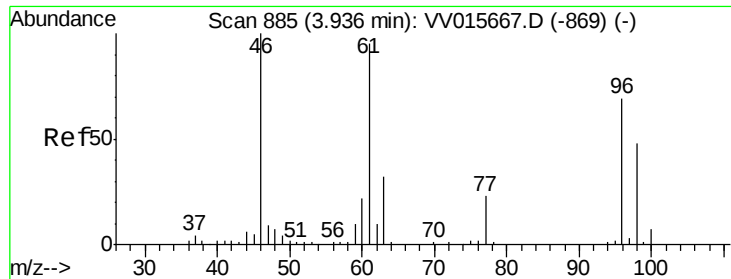
65 27.2 22.3 41.3

83 0.0 9.3 17.3#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0

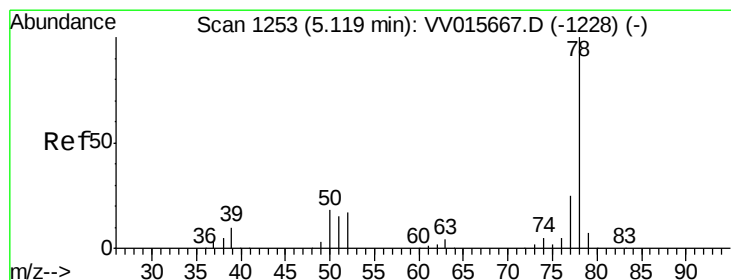
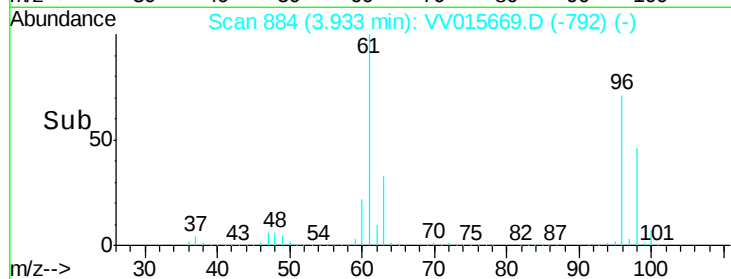
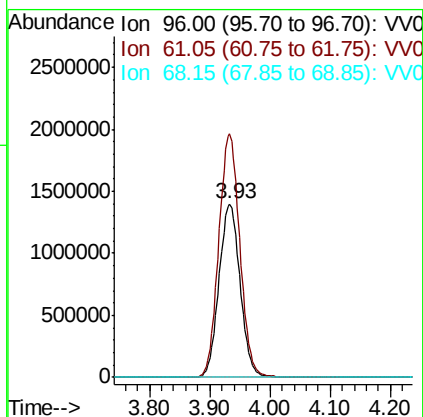
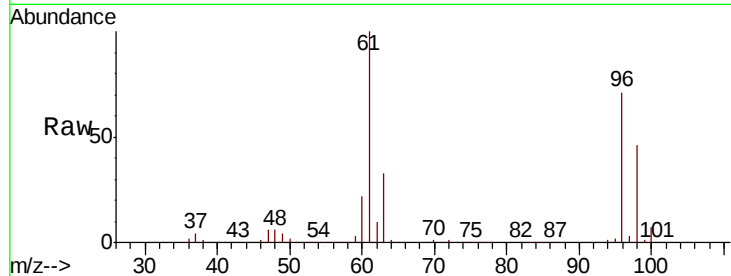




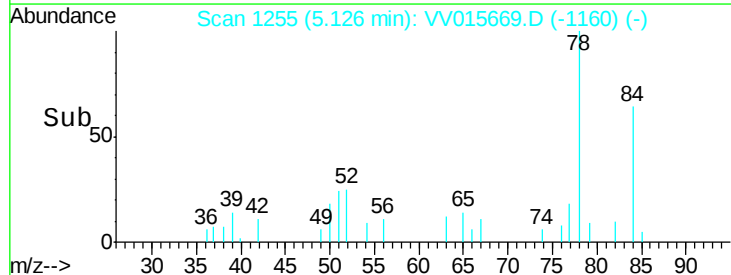
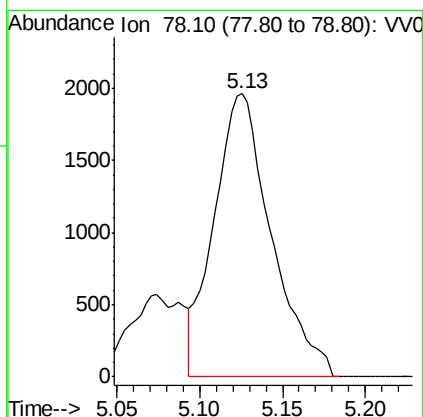
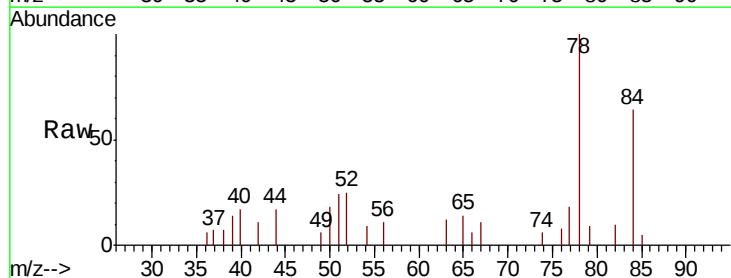
#22
 cis-1,2-Dichloroethene
 Concen: 349.308 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.00 min
 Lab File: VV015669.D
 Acq: 24 Apr 2020 13:24

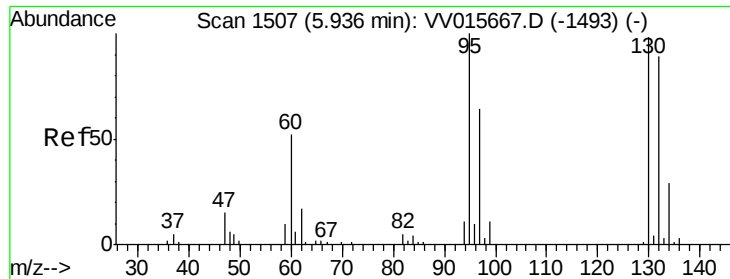
Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 3360825
 Ion Ratio Lower Upper
 96 100
 61 140.4 96.4 179.0
 68 0.0 0.0 0.0



#33
 Benzene
 Concen: 0.128 ug/L
 RT: 5.13 min Scan# 1255
 Delta R.T. 0.01 min
 Lab File: VV015669.D
 Acq: 24 Apr 2020 13:24
 Tgt Ion: 78 Resp: 4708

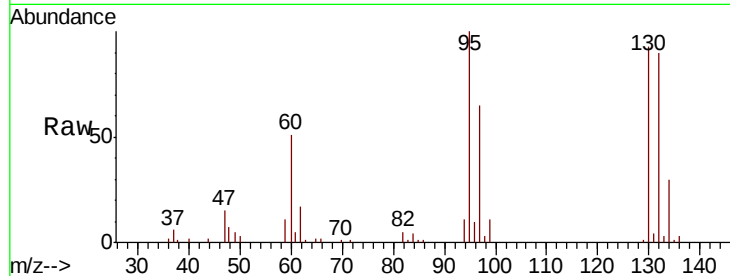




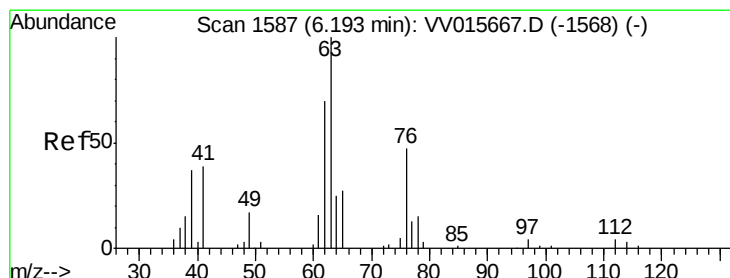
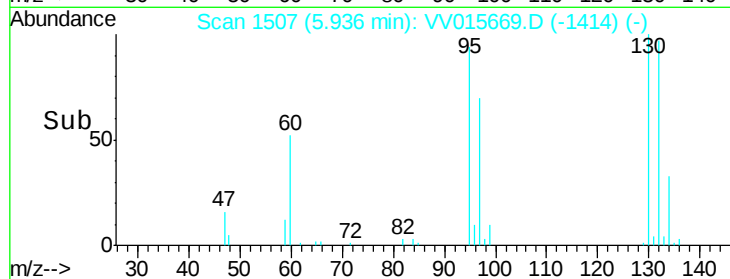
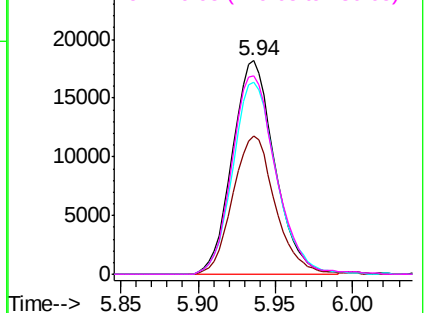
#34
 Trichloroethene
 Concen: 3.401 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. 0.00 min
 Lab File: VV015669.D
 Acq: 24 Apr 2020 13:24

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 34644
 Ion Ratio Lower Upper
 95 100
 97 64.8 44.7 82.9
 132 90.1 65.2 121.0
 130 93.0 65.0 120.6

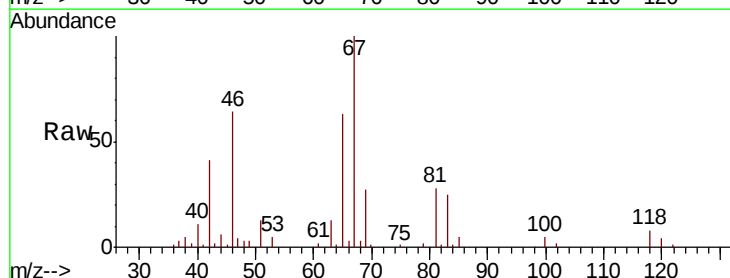


Abundance Ion 95.00 (94.70 to 95.70): VV015669.D (-1414) (-)
 Ion 96.95 (96.65 to 97.65): VV015669.D (-1414) (-)
 Ion 131.95 (131.65 to 132.65): VV015669.D (-1414) (-)
 Ion 129.95 (129.65 to 130.65): VV015669.D (-1414) (-)

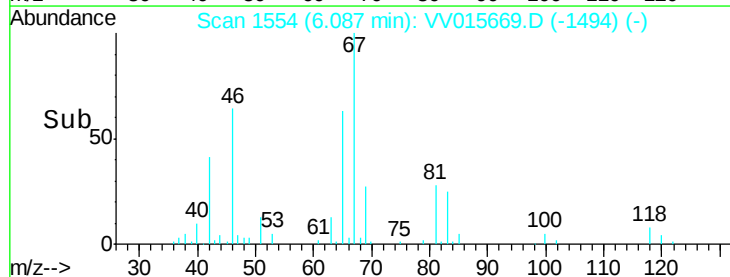
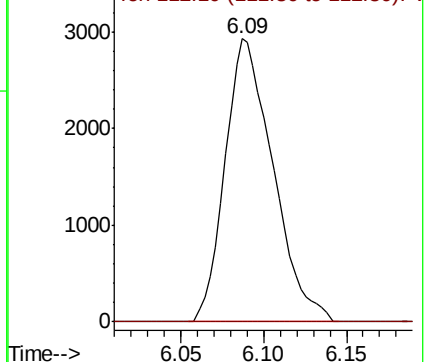


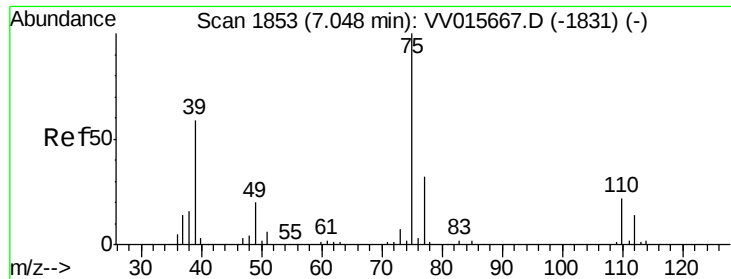
#37
 1,2-Dichloropropane
 Concen: 0.628 ug/L
 RT: 6.09 min Scan# 1554
 Delta R.T. -0.11 min
 Lab File: VV015669.D
 Acq: 24 Apr 2020 13:24

Tgt Ion: 63 Resp: 5892
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VV015669.D (-1494) (-)
 Ion 112.10 (111.80 to 112.80): VV015669.D (-1494) (-)

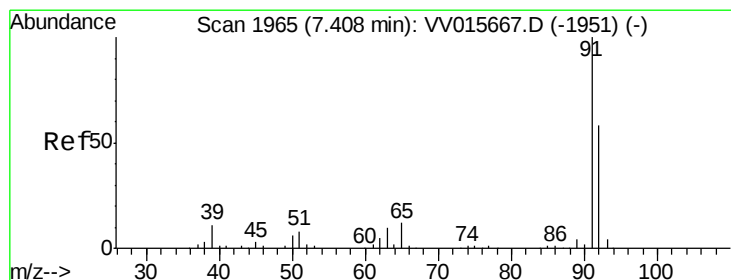
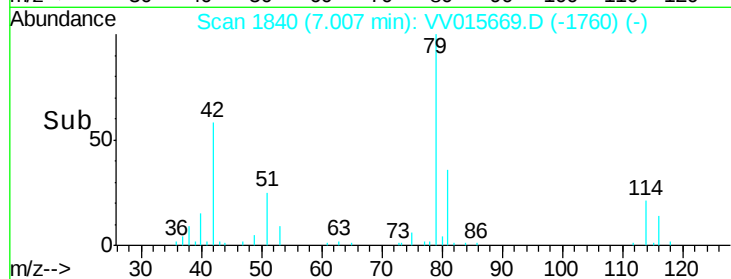
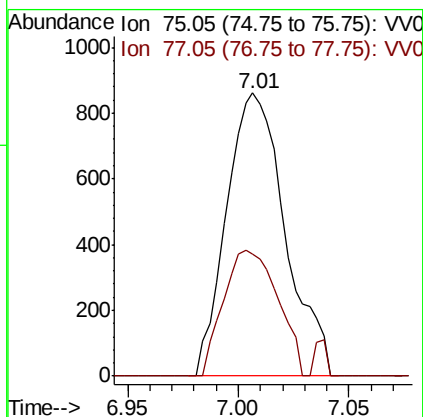
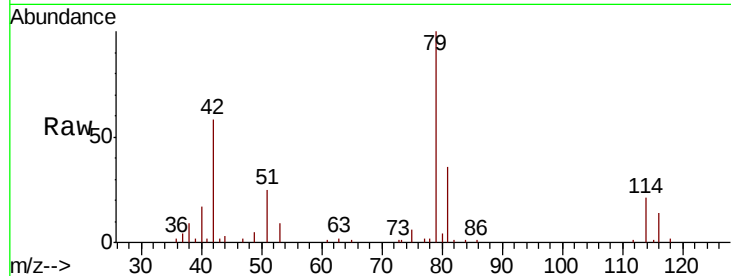




#39
 cis-1,3-Dichloropropene
 Concen: 0.122 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV015669.D
 Acq: 24 Apr 2020 13:24

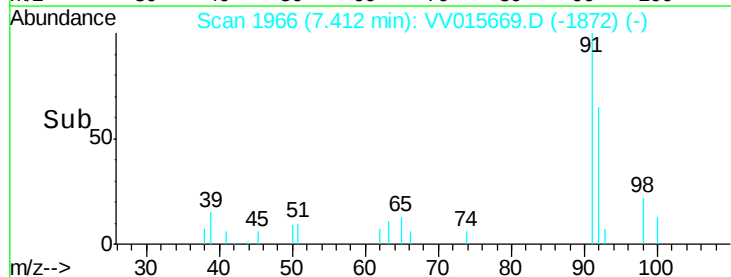
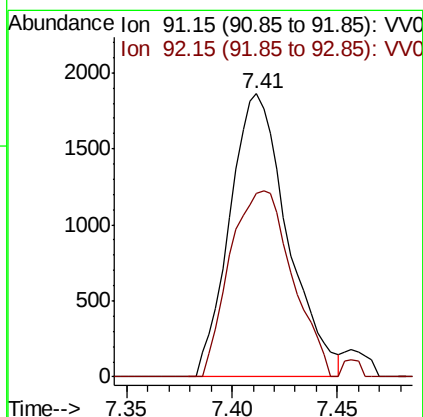
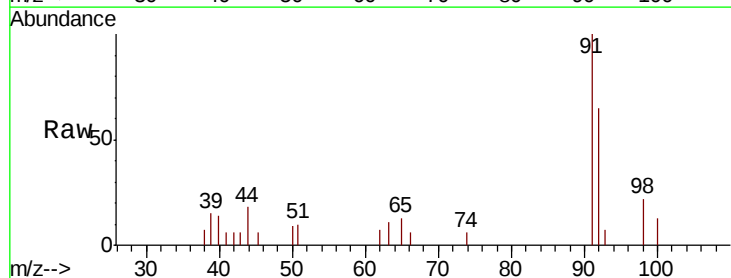
Instrument :
 MSVOA_V
 ClientSampleId :

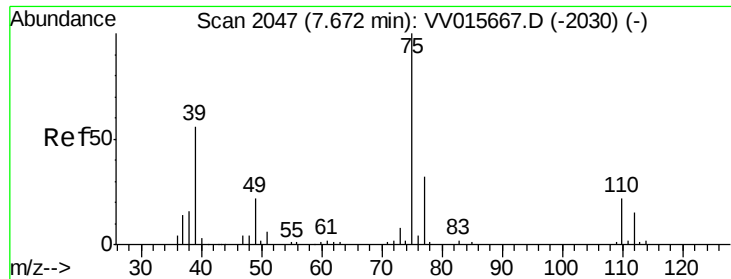
Tot Ion: 75 Resp: 1590
 Ion Ratio Lower Upper
 75 100
 77 43.0 22.3 41.5#



#42
 Toluene
 Concen: 0.090 ug/L
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VV015669.D
 Acq: 24 Apr 2020 13:24

Tgt Ion: 91 Resp: 3547
 Ion Ratio Lower Upper
 91 100
 92 64.6 40.7 75.7

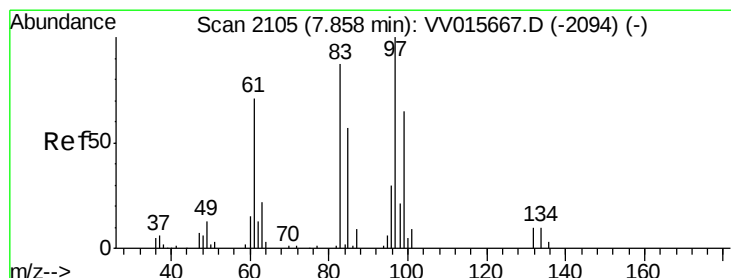
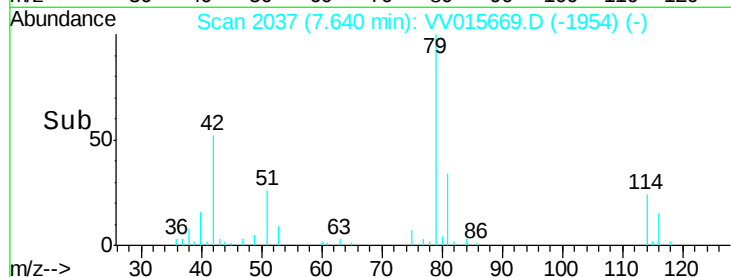
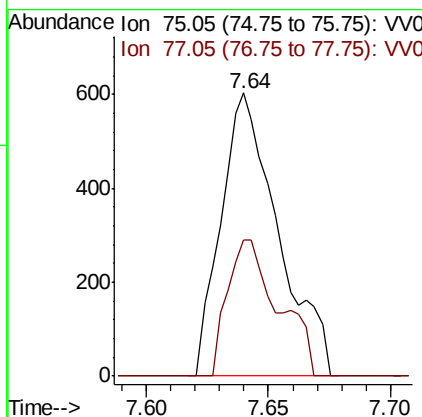
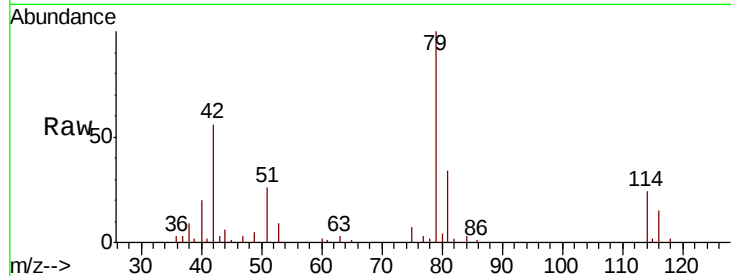




#44
trans-1,3-Dichloropropene
Concen: 0.089 ug/L
RT: 7.64 min Scan# 2037
Delta R.T. -0.03 min
Lab File: VV015669.D
Acq: 24 Apr 2020 13:24

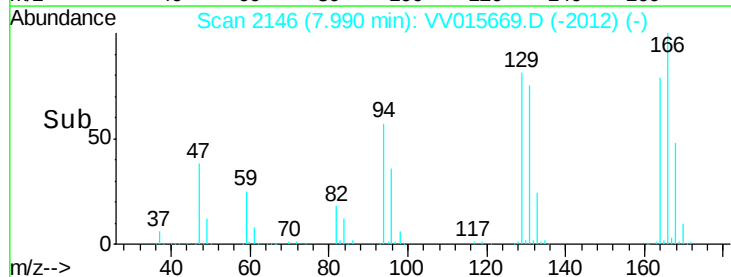
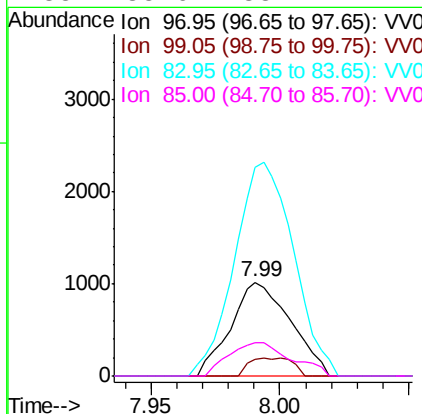
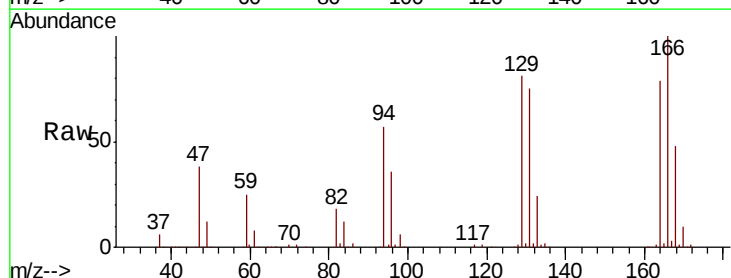
Instrument :
MSVOA_V
ClientSampleId :

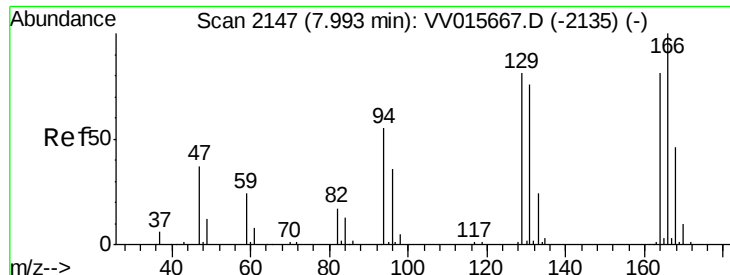
Tot Ion: 75 Resp: 980
Ion Ratio Lower Upper
75 100
77 48.3 21.8 40.6#



#45
1,1,2-Trichloroethane
Concen: 0.255 ug/L
RT: 7.99 min Scan# 2146
Delta R.T. 0.13 min
Lab File: VV015669.D
Acq: 24 Apr 2020 13:24

Tgt Ion: 97 Resp: 1632
Ion Ratio Lower Upper
97 100
99 18.4 45.4 84.4#
83 221.2 61.3 113.9#
85 35.6 38.4 71.4#

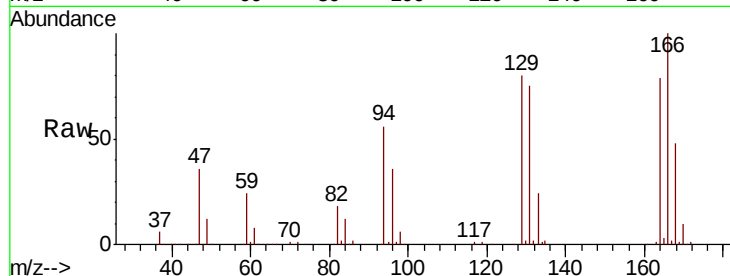




#47
Tetrachloroethene
Concen: 21.446 ug/L
RT: 7.99 min Scan# 2147
Delta R.T. 0.00 min
Lab File: VV015669.D
Acq: 24 Apr 2020 13:24

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
129	101.7	66.7	123.9
131	95.2	66.6	123.6
166	127.3	85.3	158.5

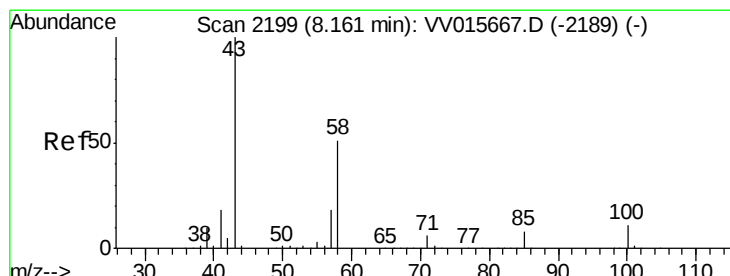
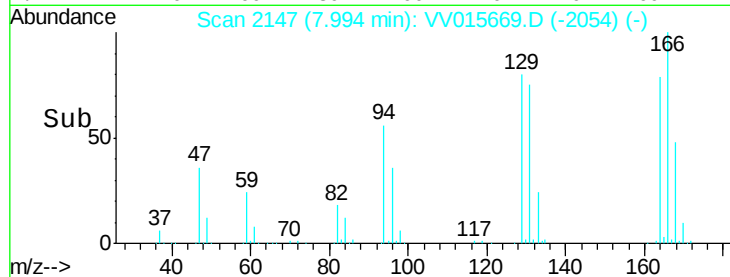
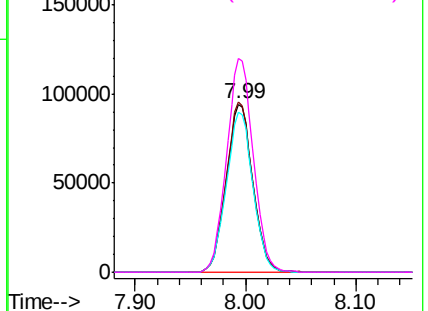


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48
2-Hexanone
Concen: 1.097 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VV015669.D
Acq: 24 Apr 2020 13:24

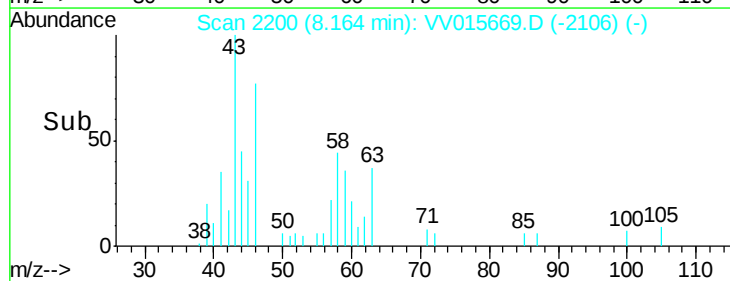
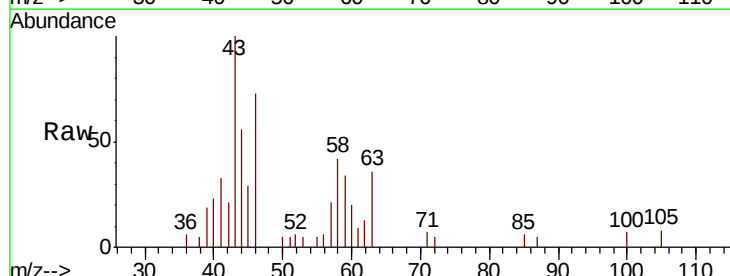
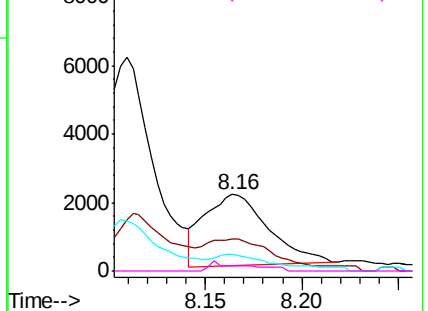
Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.8	41.1	61.7#
57	12.6	15.0	22.4#
100	6.4	9.0	13.4#

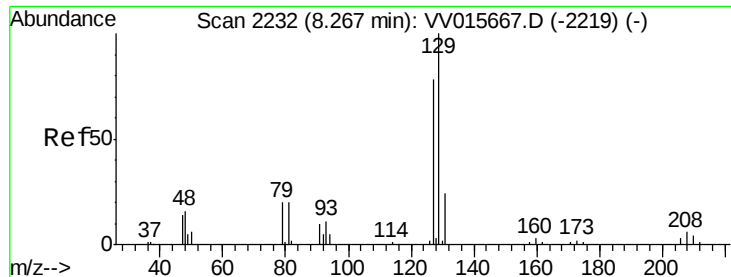
Abundance Ion 43.05 (42.75 to 43.75): VV0

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





#49

Dibromochloromethane

Concen: 22.819 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. -0.27 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

Instrument :

MSVOA_V

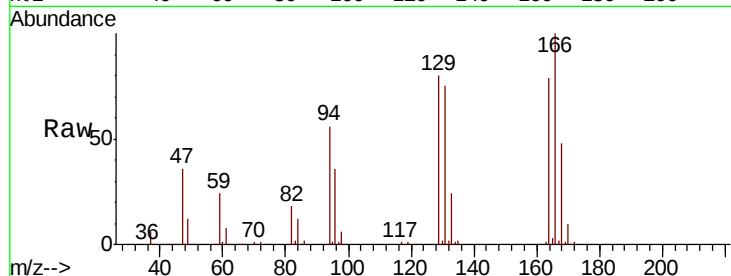
ClientSampleId :

Tot Ion:129 Resp: 150930

Ion Ratio Lower Upper

129 100

127 0.2 52.6 97.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

7.99

100000

80000

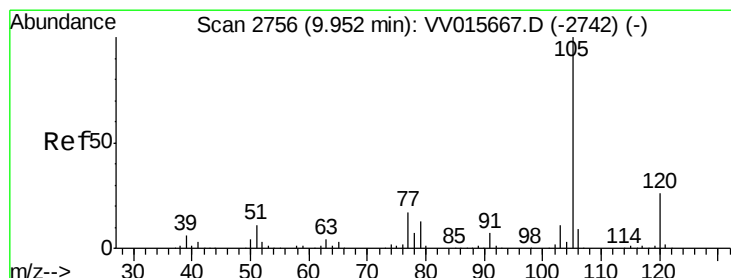
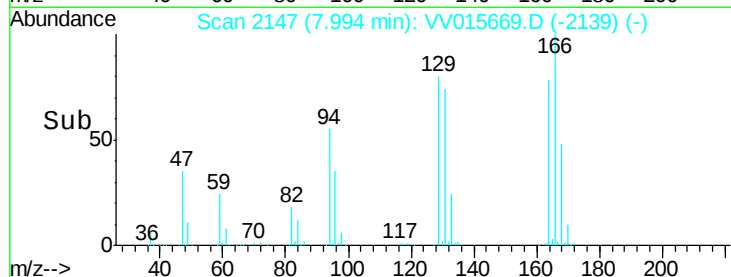
60000

40000

20000

0

Time--> 7.95 8.00 8.05



#56

Isopropylbenzene

Concen: 0.068 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

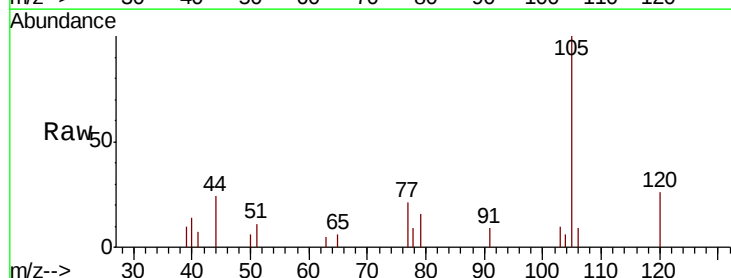
Tgt Ion:105 Resp: 3092

Ion Ratio Lower Upper

105 100

120 24.5 20.7 31.1

77 20.7 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): VV0

2500

2000

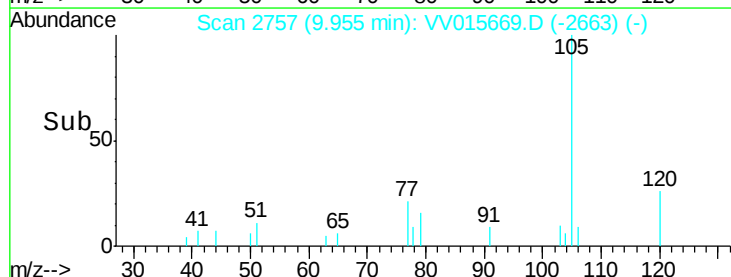
1500

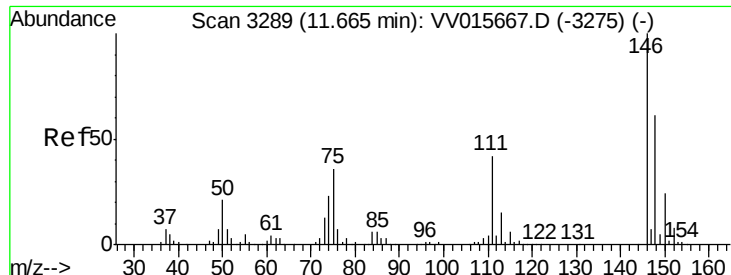
1000

500

0

Time--> 9.90 9.95 10.00





#65
 1,2-Dichlorobenzene
 Concen: 0.119 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV015669.D
 Acq: 24 Apr 2020 13:24

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.2	34.7	52.1
148	58.0	51.3	76.9

