

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041620\
 Data File : VV015537.D
 Acq On : 16 Apr 2020 15:24
 Operator : SY/MD
 Sample : L2320-04
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 17 00:49:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 00:46:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	105447	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	99673	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	48117	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	25749	4.70	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.00%
7) Chloroethane-d5	1.58	69	24654	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.80%
11) 1,1-Dichloroethene-d2	2.12	63	40880	3.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.00%
20) 2-Butanone-d5	3.96	46	77065	50.16	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.32%
24) Chloroform-d	4.38	84	55180	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.06	65	31739	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.07	84	108206	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
36) 1,2-Dichloropropane-d6	6.10	67	33981	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.34	98	98386	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
43) trans-1,3-Dichloropropene-	7.65	79	13132	4.38	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.60%
46) 2-Hexanone-d5	8.12	63	63195	43.75	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.50%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	23580	4.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.20%
64) 1,2-Dichlorobenzene-d4	11.65	152	37503	4.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	21961	2.104	ug/L 98
9) Trichlorofluoromethane	1.76	101	299334	24.445	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	6825	0.987	ug/L 98
12) 1,1-Dichloroethene	2.13	96	5632	0.851	ug/L # 7
17) Methyl tert-butyl Ether	2.79	73	38065	2.152	ug/L 98
18) trans-1,2-Dichloroethene	2.78	96	8817	1.182	ug/L 96
19) 1,1-Dichloroethane	3.21	63	14748	1.049	ug/L 98
22) cis-1,2-Dichloroethene	3.94	96	18314	2.365	ug/L 95
25) Chloroform	4.40	83	7269	0.505	ug/L 96
29) 1,1,1-Trichloroethane	4.63	97	1818	0.141	ug/L 93
34) Trichloroethene	5.94	95	179924	22.408	ug/L 100
35) Methylcyclohexane	6.09	83	8803	0.651	ug/L # 17
37) 1,2-Dichloropropane	6.10	63	4484	0.606	ug/L # 86
39) cis-1,3-Dichloropropene	7.01	75	1132	0.100	ug/L # 48
44) trans-1,3-Dichloropropene	7.64	75	620	0.065	ug/L 99
47) Tetrachloroethene	8.00	164	162523	27.319	ug/L 98
48) 2-Hexanone	8.12	43	10584	3.118	ug/L # 72

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 17 00:46:36 2020
Response via : Initial Calibration

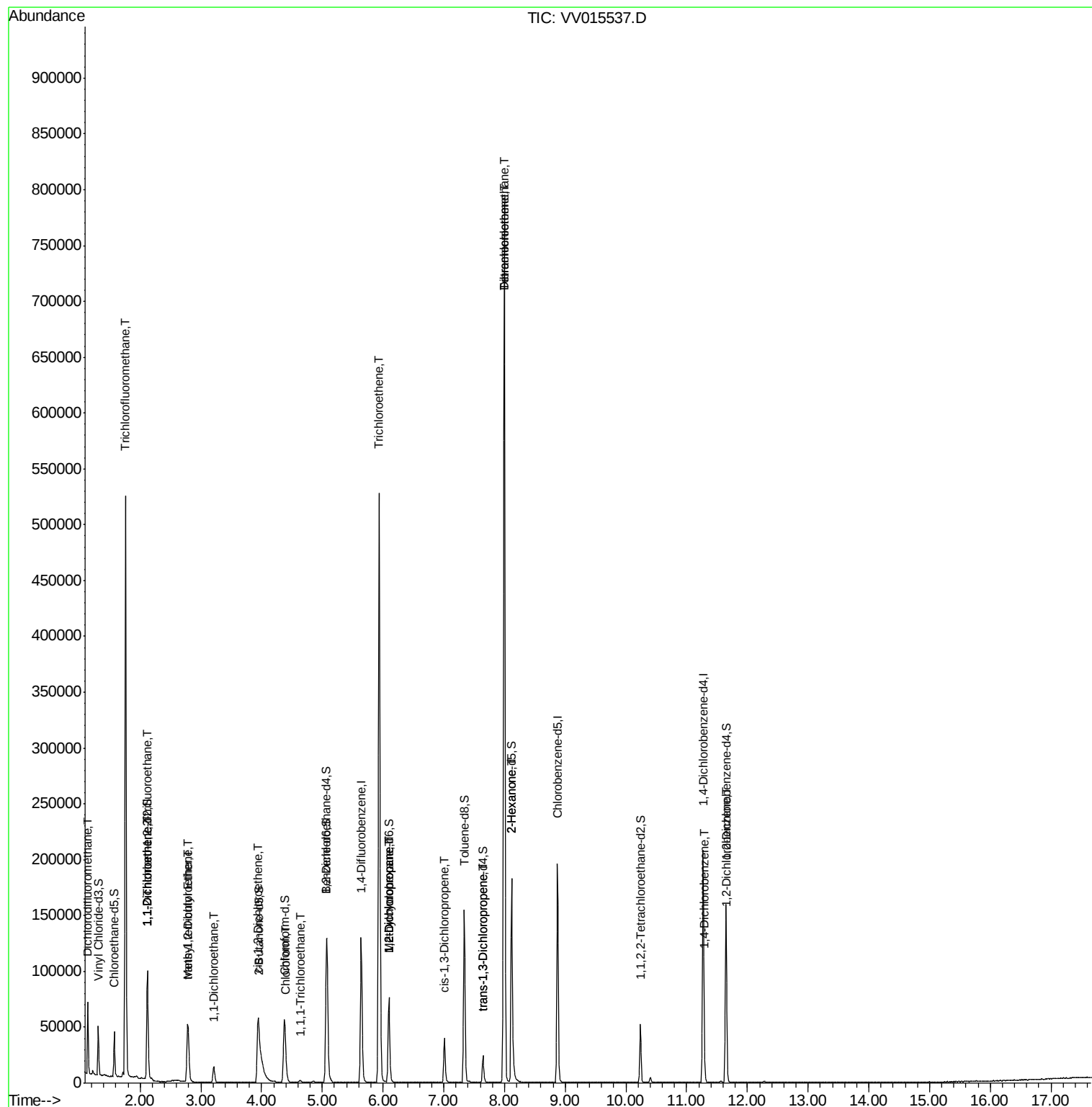
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.00	129	155705	26.135	ug/L #	10
63) 1,4-Dichlorobenzene	11.30	146	4065	0.257	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	2797	0.198	ug/L	92

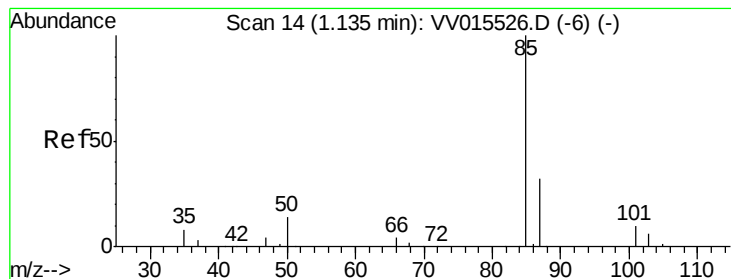
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.104 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

Instrument :

MSVOA_V

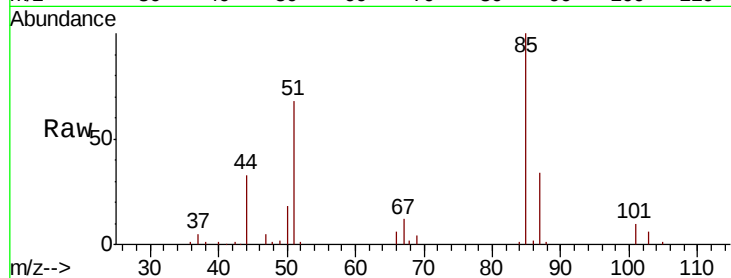
ClientSampleId :

Tot Ion: 85 Resp: 21961

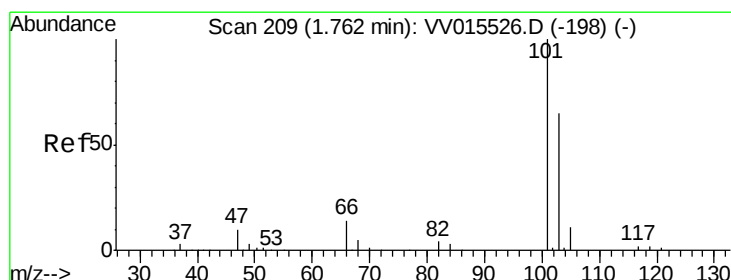
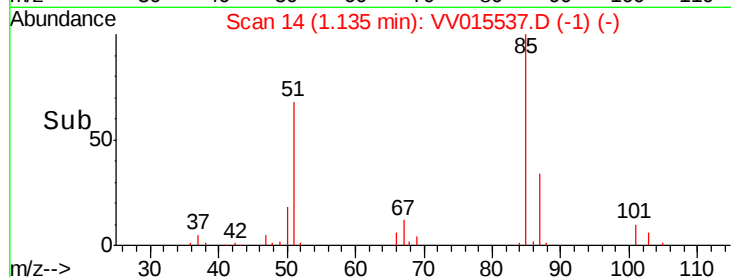
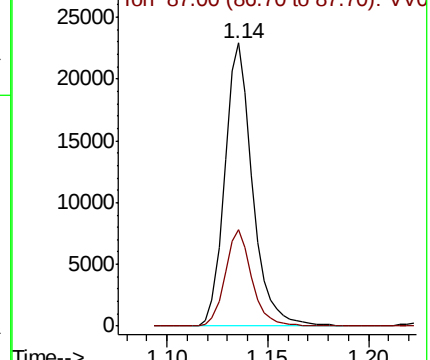
Ion Ratio Lower Upper

85 100

87 32.5 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV015537.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 24.445 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV015537.D

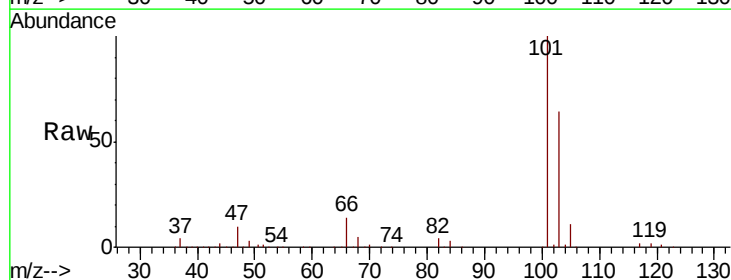
Acq: 16 Apr 2020 15:24

Tgt Ion: 101 Resp: 299334

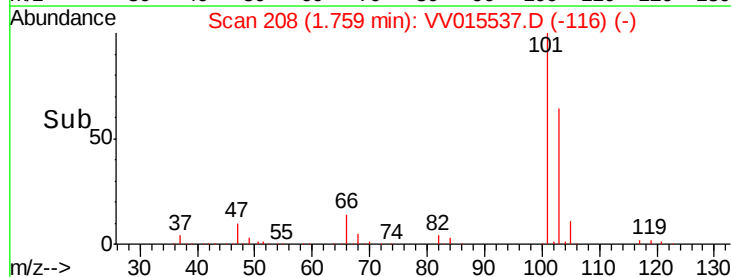
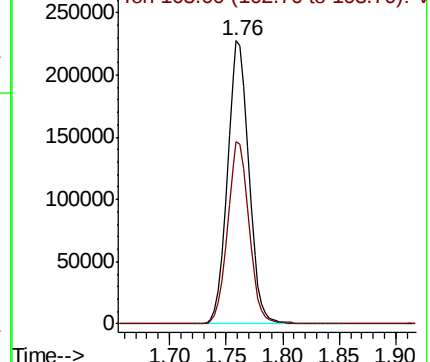
Ion Ratio Lower Upper

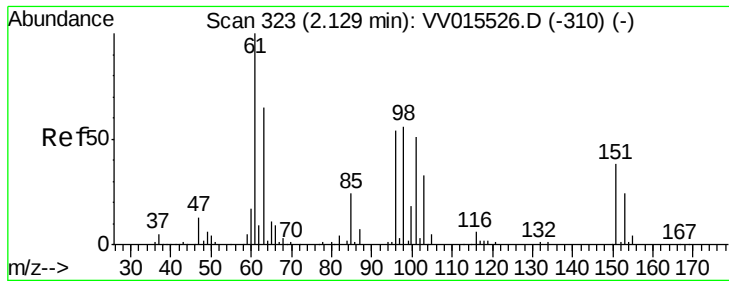
101 100

103 64.4 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV015537.D (-116) (-)





#10

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

Concen: 0.987 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

Instrument :

MSVOA_V

ClientSampled :

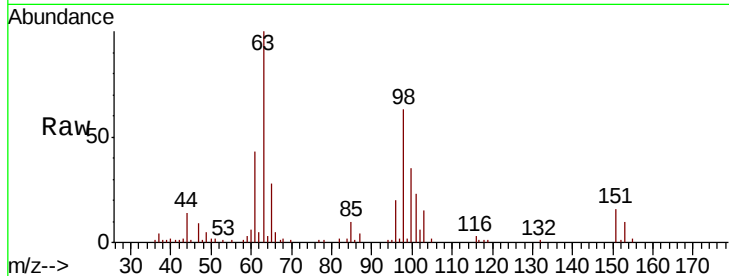
Tot Ion:101 Resp: 6825

Ion Ratio Lower Upper

101 100

85 43.9 36.3 54.5

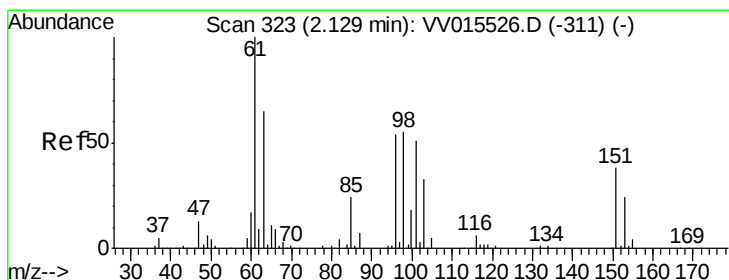
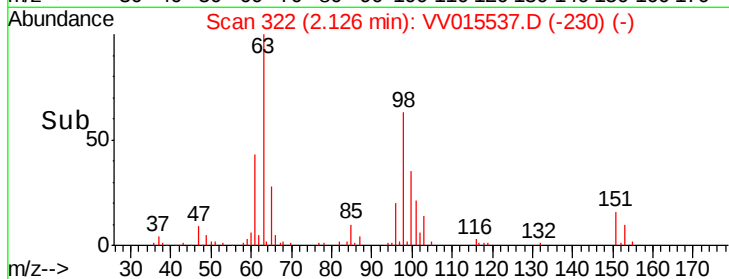
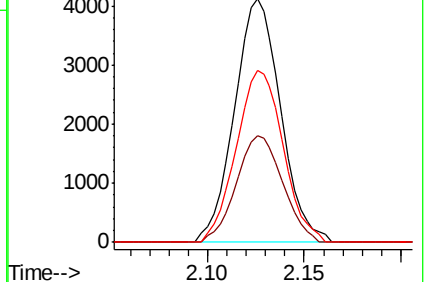
151 71.7 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): VV015526.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV015526.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV015526.D (-310) (-)



#12

1,1-Dichloroethene

Concen: 0.851 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

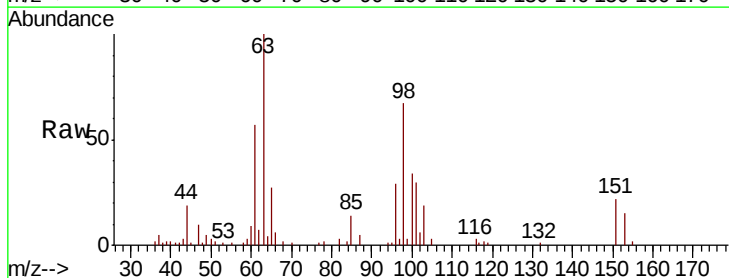
Tgt Ion: 96 Resp: 5632

Ion Ratio Lower Upper

96 100

61 198.0 127.7 237.1

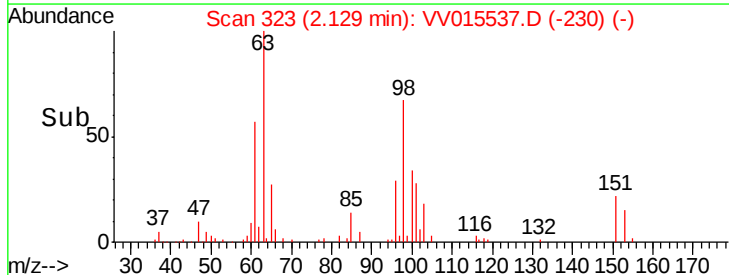
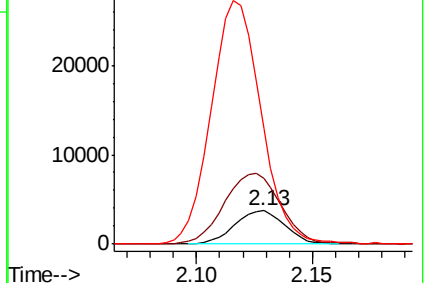
63 348.1 75.1 139.5#

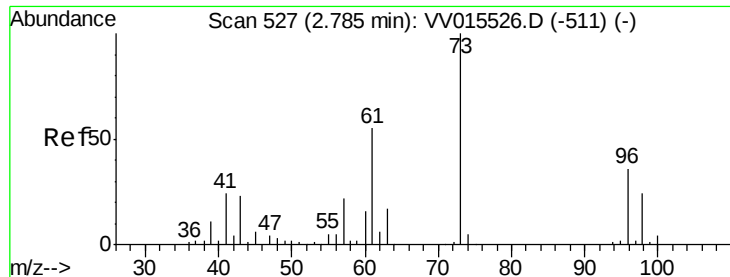


Abundance Ion 96.00 (95.70 to 96.70): VV015526.D (-311) (-)

Ion 61.05 (60.75 to 61.75): VV015526.D (-311) (-)

Ion 63.00 (62.70 to 63.70): VV015526.D (-311) (-)

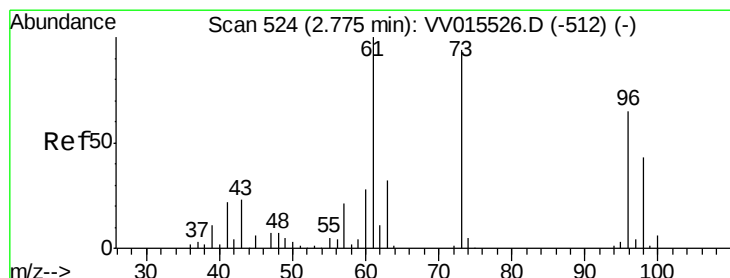
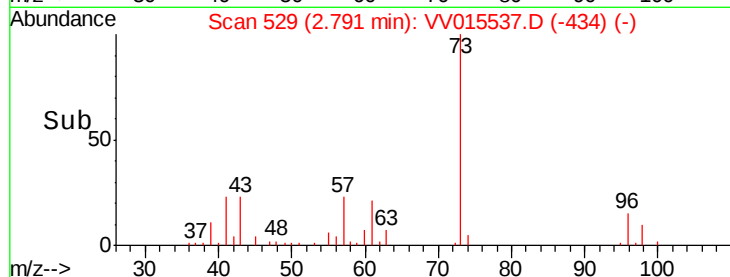
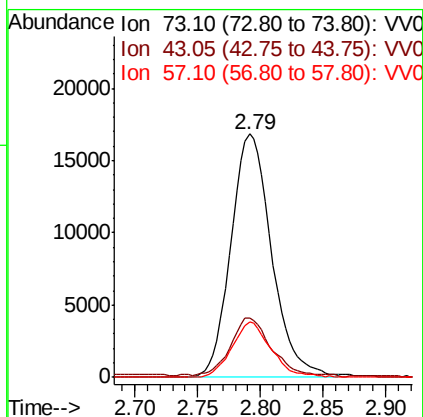
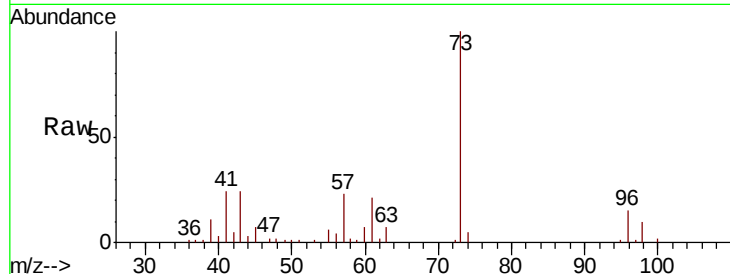




#17
Methvl tert-butvl Ether
Concen: 2.152 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV015537.D
Acq: 16 Apr 2020 15:24

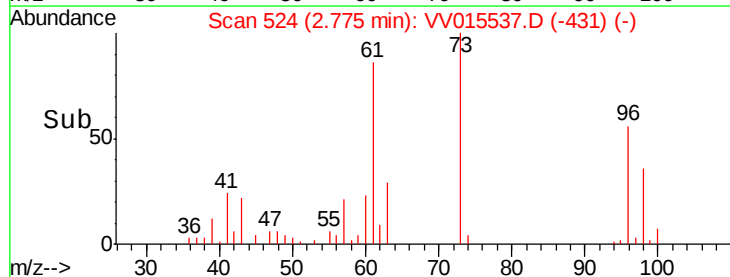
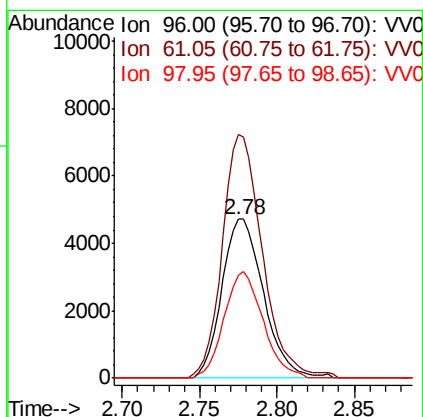
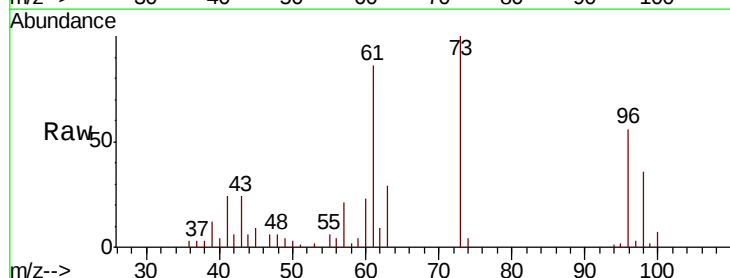
Instrument :
MSVOA_V
ClientSampleId :

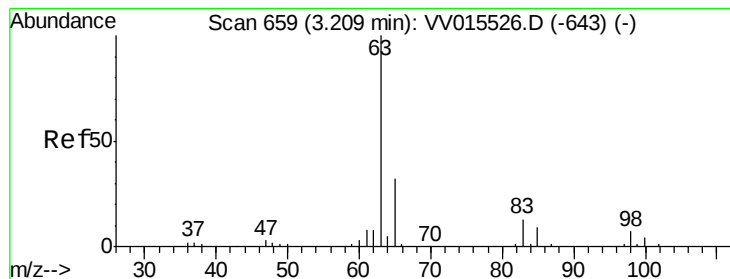
Tot Ion: 73 Resp: 38065
Ion Ratio Lower Upper
73 100
43 23.5 18.3 27.5
57 21.8 18.4 27.6



#18
trans-1,2-Dichloroethene
Concen: 1.182 ug/L
RT: 2.78 min Scan# 524
Delta R.T. 0.00 min
Lab File: VV015537.D
Acq: 16 Apr 2020 15:24

Tgt Ion: 96 Resp: 8817
Ion Ratio Lower Upper
96 100
61 153.1 104.4 194.0
98 65.0 42.8 79.4





#19

1,1-Dichloroethane

Concen: 1.049 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

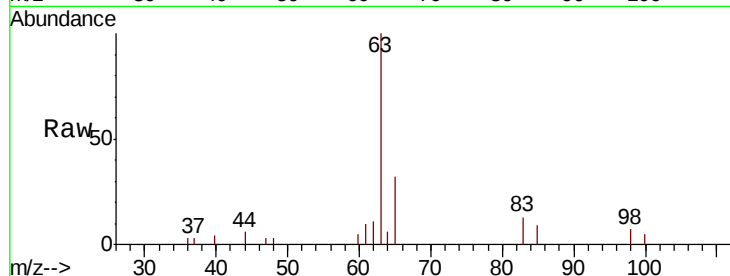
Tot Ion: 63 Resp: 14748

Ion Ratio Lower Upper

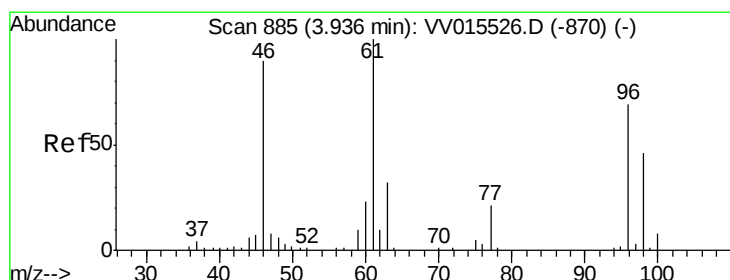
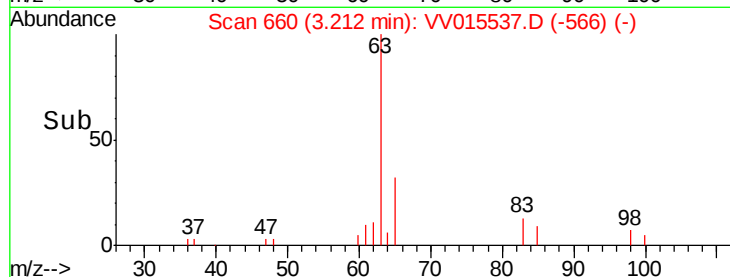
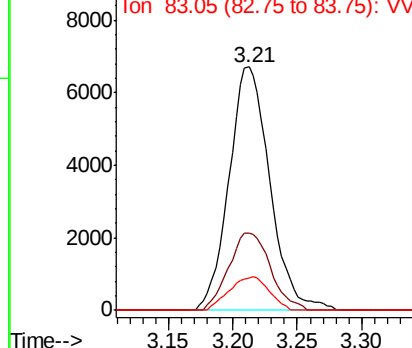
63 100

65 31.8 21.3 39.6

83 13.3 9.4 17.6



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: 2.365 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

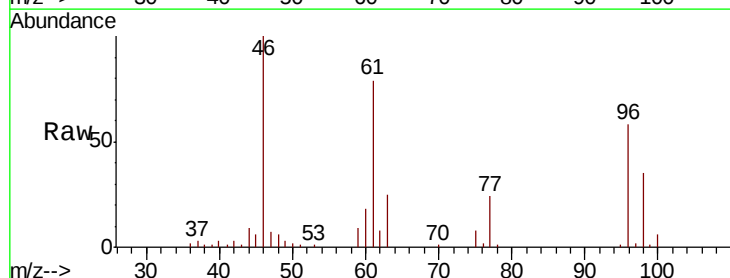
Tgt Ion: 96 Resp: 18314

Ion Ratio Lower Upper

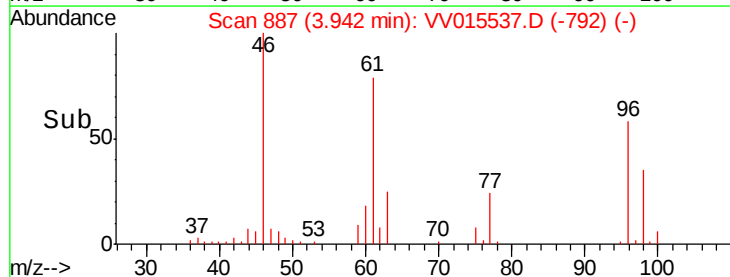
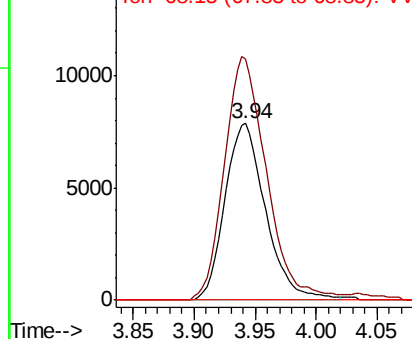
96 100

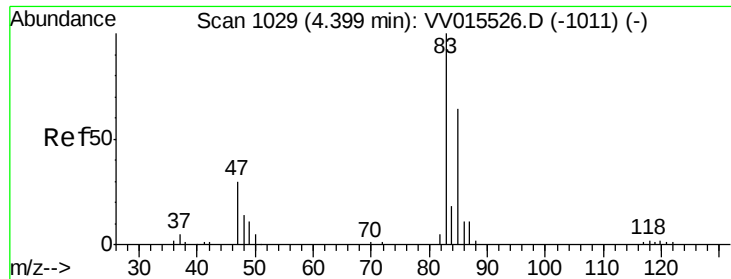
61 136.8 100.0 185.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0

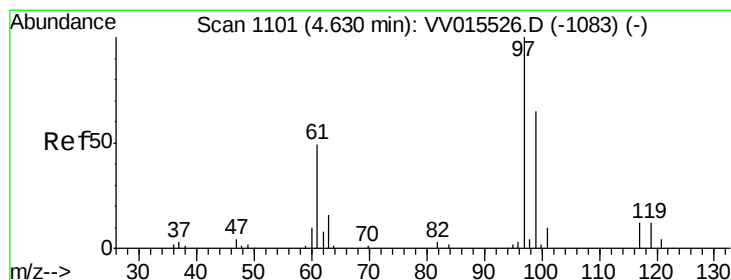
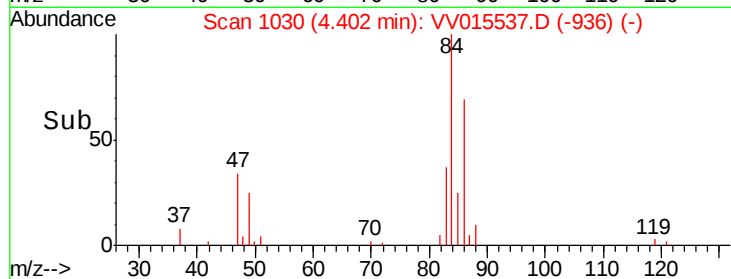
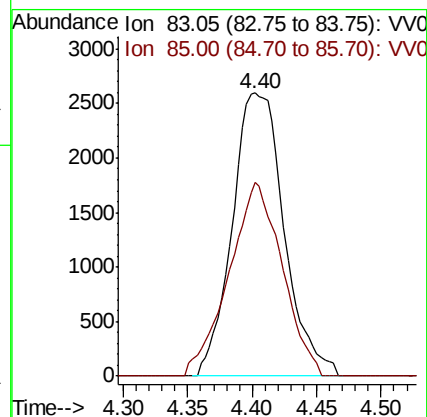
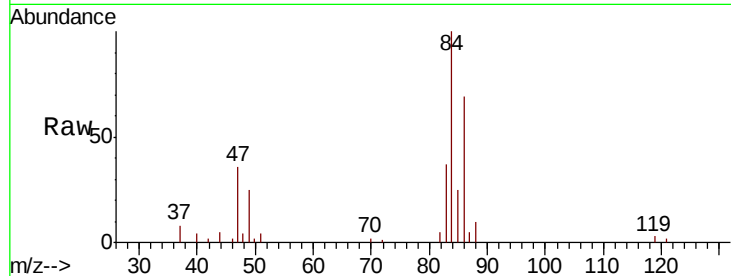




#25
Chloroform
Concen: 0.505 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV015537.D
Acq: 16 Apr 2020 15:24

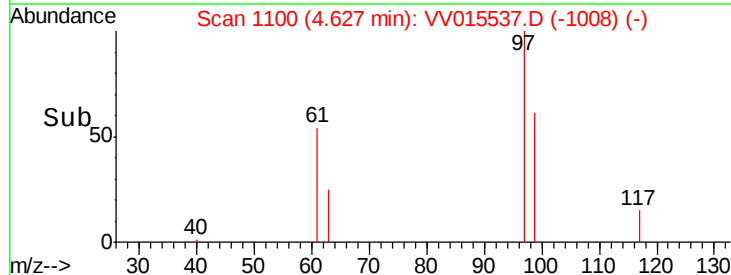
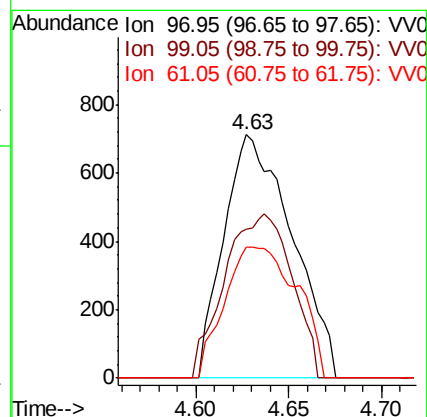
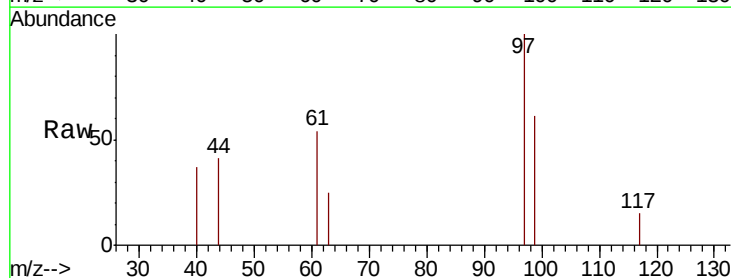
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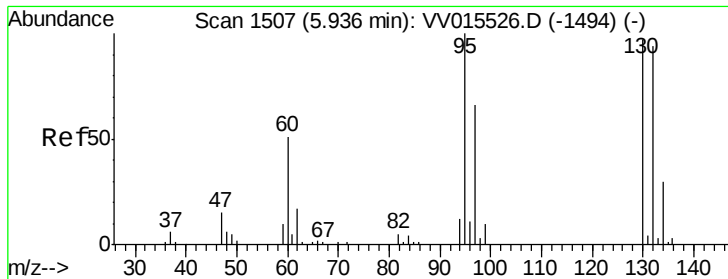
Tot Ion: 83 Resp: 7269
Ion Ratio Lower Upper
83 100
85 68.5 45.9 85.3



#29
1,1,1-Trichloroethane
Concen: 0.141 ug/L
RT: 4.63 min Scan# 1100
Delta R.T. -0.00 min
Lab File: VV015537.D
Acq: 16 Apr 2020 15:24

Tgt Ion: 97 Resp: 1818
Ion Ratio Lower Upper
97 100
99 66.5 51.6 77.4
61 57.2 39.0 58.6

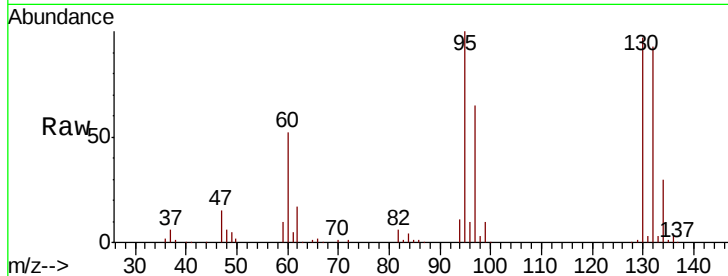




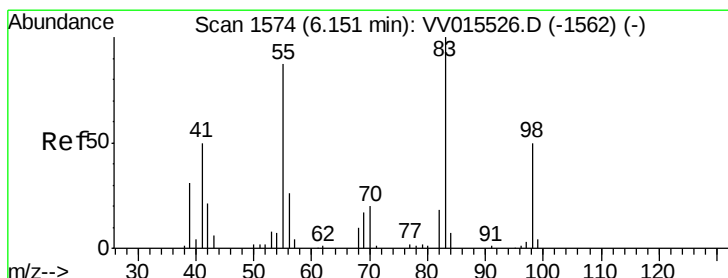
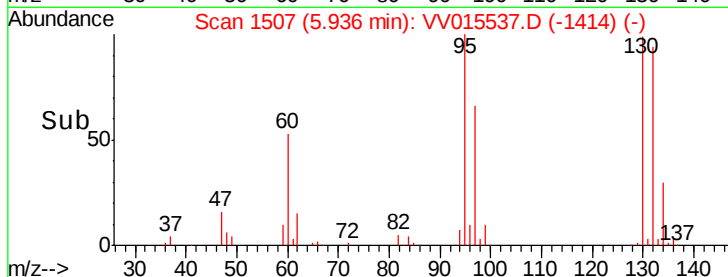
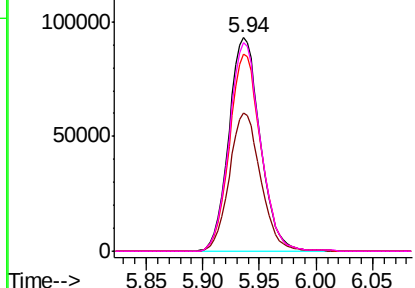
#34
 Trichloroethene
 Concen: 22.408 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. 0.00 min
 Lab File: VV015537.D
 Acq: 16 Apr 2020 15:24

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 179924
 Ion Ratio Lower Upper
 95 100
 97 64.8 45.4 84.4
 132 92.6 64.8 120.4
 130 97.4 67.4 125.2

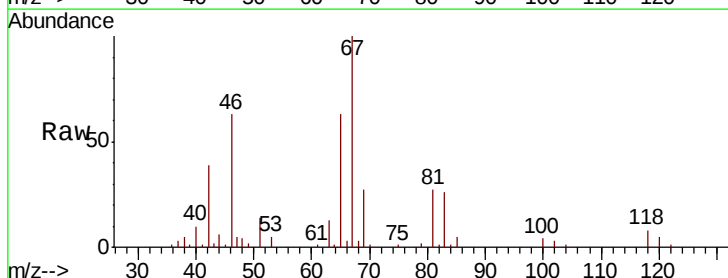


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

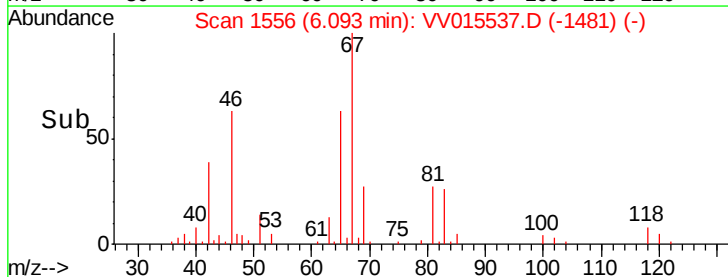
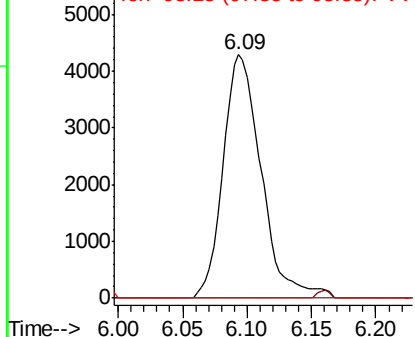


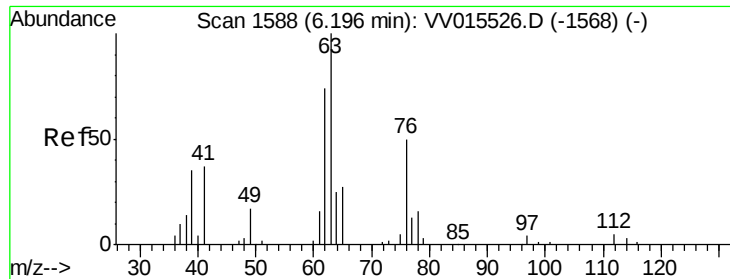
#35
 Methylcyclohexane
 Concen: 0.651 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.06 min
 Lab File: VV015537.D
 Acq: 16 Apr 2020 15:24

Tgt Ion: 83 Resp: 8803
 Ion Ratio Lower Upper
 83 100
 55 1.0 66.6 99.8#
 98 2.3 38.7 58.1#



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0

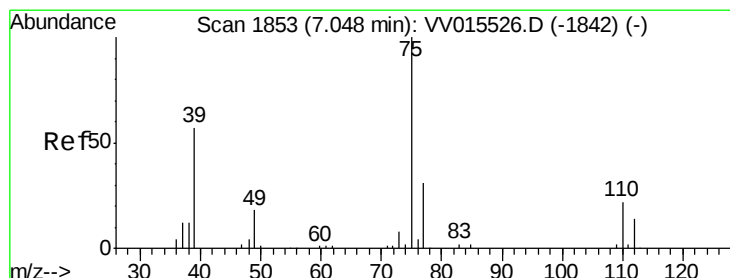
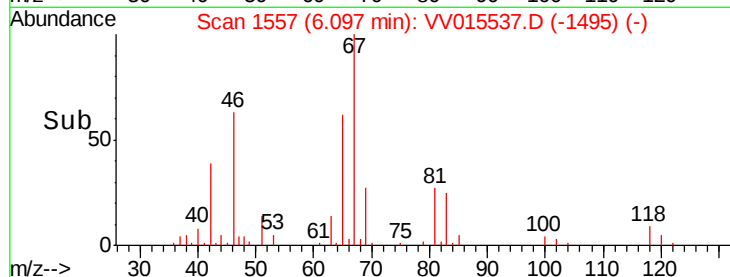
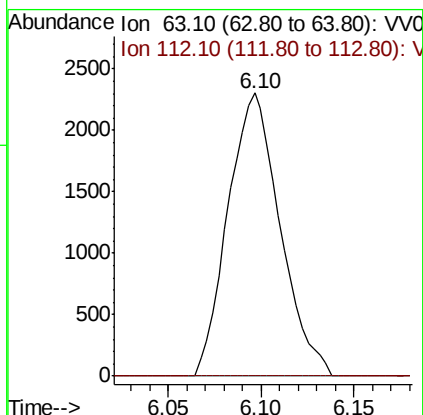
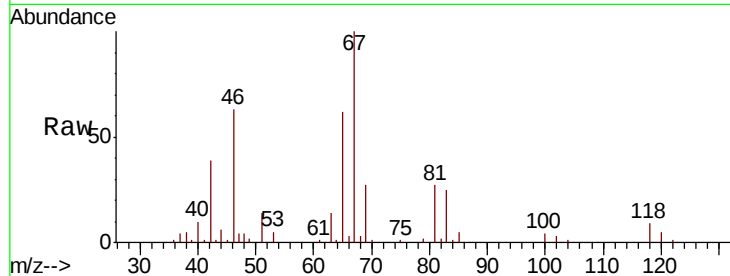




#37
 1,2-Dichloropropane
 Concen: 0.606 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV015537.D
 Acq: 16 Apr 2020 15:24

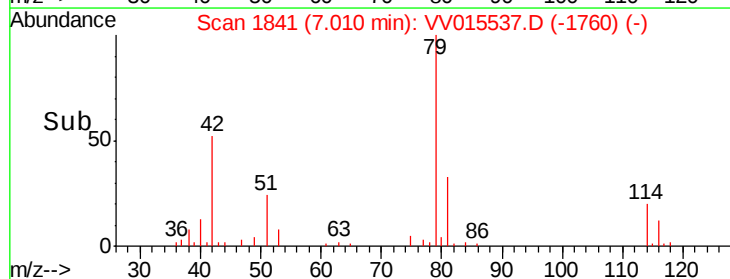
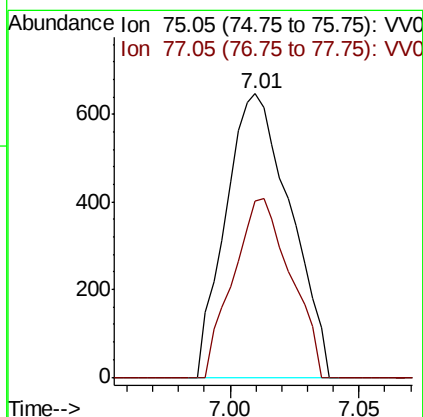
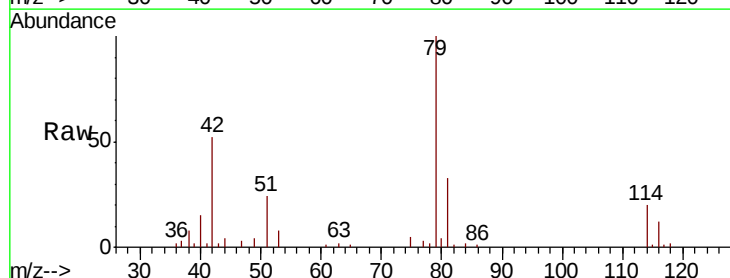
Instrument :
 MSVOA_V
 ClientSampled :

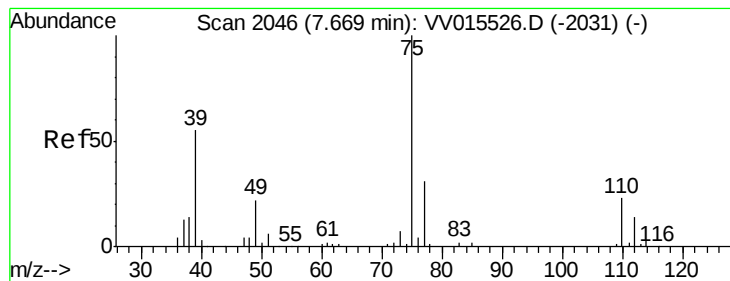
Tot Ion: 63 Resp: 4484
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.100 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV015537.D
 Acq: 16 Apr 2020 15:24

Tgt Ion: 75 Resp: 1132
 Ion Ratio Lower Upper
 75 100
 77 62.1 23.0 42.6#





#44

trans-1,3-Dichloropropene

Concen: 0.065 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

Instrument :

MSVOA_V

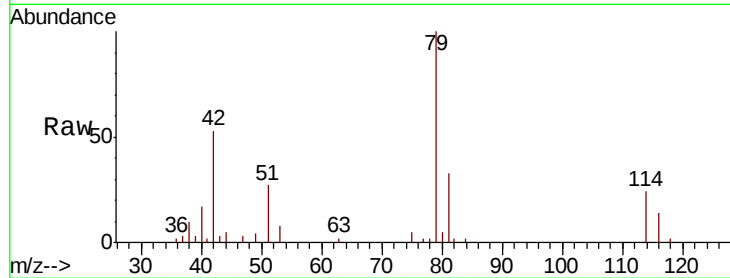
ClientSampleId :

Tot Ion: 75 Resp: 620

Ion Ratio Lower Upper

75 100

77 29.6 21.0 39.0



Abundance Ion 75.05 (74.75 to 75.75): VV015526.D (-2031) (-)

Ion 77.05 (76.75 to 77.75): VV015526.D (-2031) (-)

7.64

7.64

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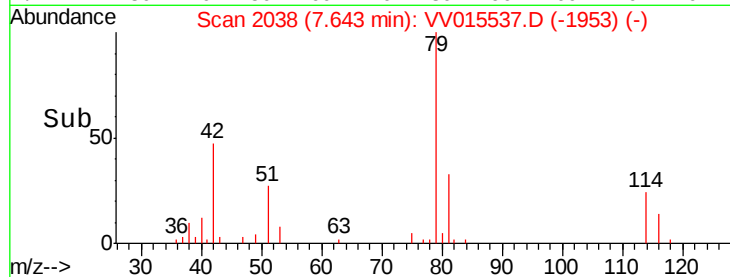
7.64

7.64

7.64

7.64

7.64



#47

Tetrachloroethene

Concen: 27.319 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

Tgt Ion:164 Resp: 162523

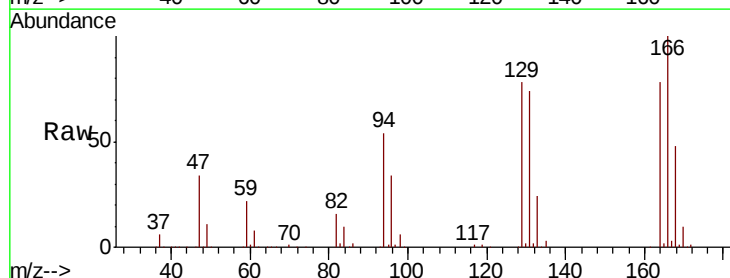
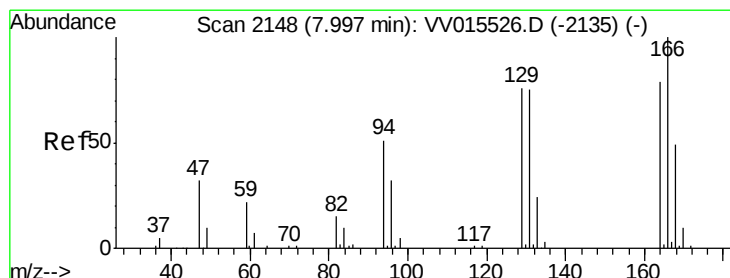
Ion Ratio Lower Upper

164 100

129 98.9 70.6 131.0

131 94.9 68.3 126.8

166 127.4 88.3 163.9



Abundance Ion 163.90 (163.60 to 164.60): VV015526.D (-2135) (-)

Ion 128.95 (128.65 to 129.65): VV015526.D (-2135) (-)

Ion 130.95 (130.65 to 131.65): VV015526.D (-2135) (-)

Ion 165.90 (165.60 to 166.60): VV015526.D (-2135) (-)

8.00

8.00

8.00

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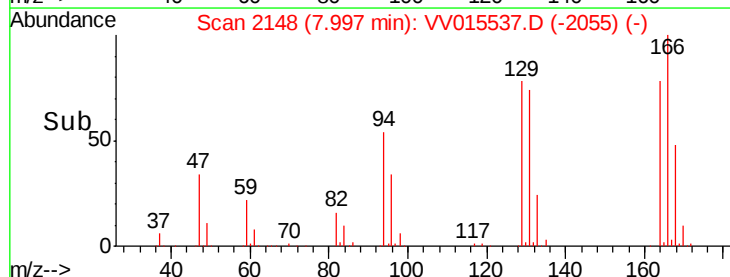
8.00

8.00

8.00

8.00

8.00



#47

Tetrachloroethene

Concen: 27.319 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015537.D

Acq: 16 Apr 2020 15:24

Tgt Ion:164 Resp: 162523

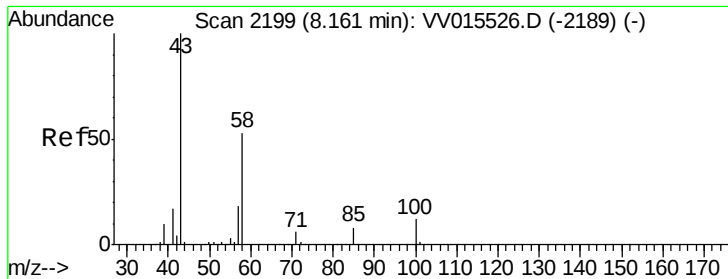
Ion Ratio Lower Upper

164 100

129 98.9 70.6 131.0

131 94.9 68.3 126.8

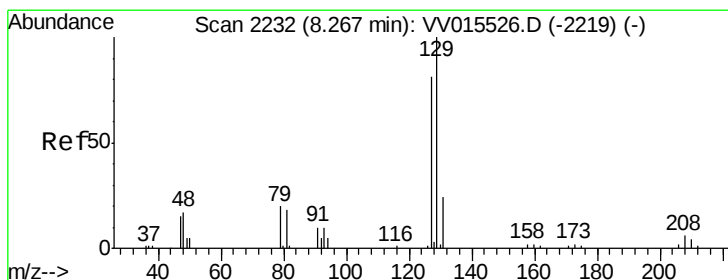
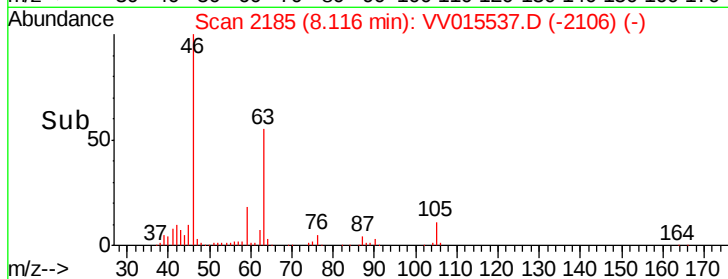
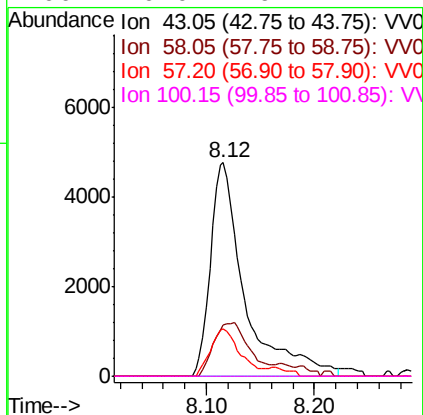
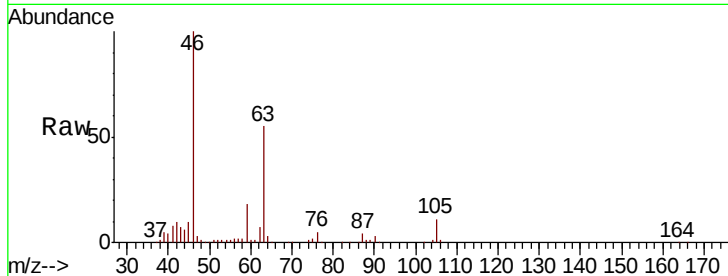
166 127.4 88.3 163.9



#48
2-Hexanone
Concen: 3.118 ug/L
RT: 8.12 min Scan# 2185
Delta R.T. -0.04 min
Lab File: VV015537.D
Acq: 16 Apr 2020 15:24

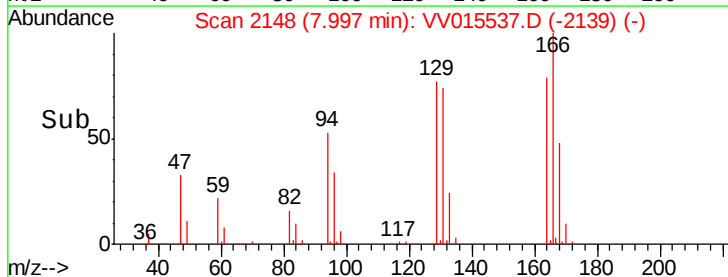
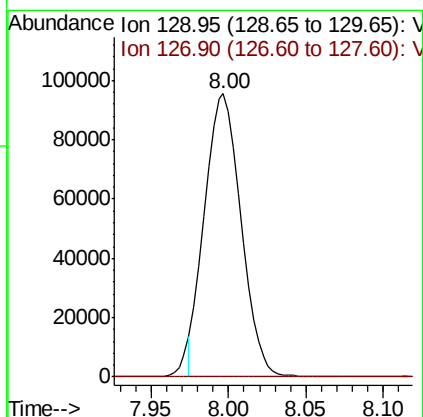
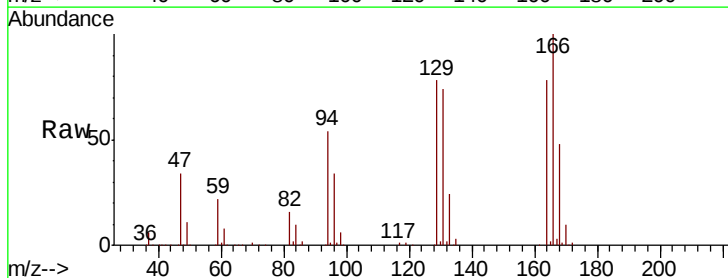
Instrument :
MSVOA_V
ClientSampleId :

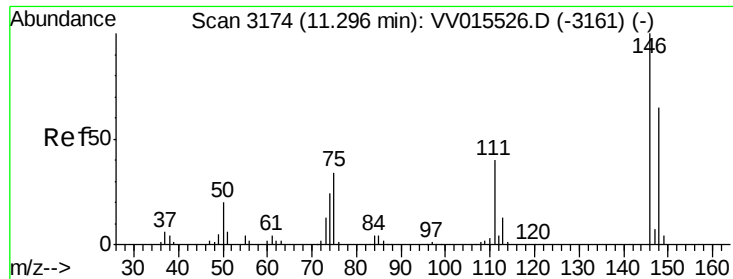
Tot Ion: 43 Resp: 10584
Ion Ratio Lower Upper
43 100
58 26.1 41.4 62.0#
57 19.2 15.0 22.4
100 0.0 9.4 14.2#



#49
Dibromochloromethane
Concen: 26.135 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV015537.D
Acq: 16 Apr 2020 15:24

Tgt Ion: 129 Resp: 155705
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.7#

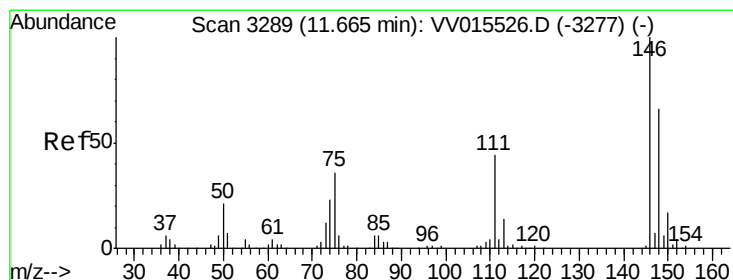
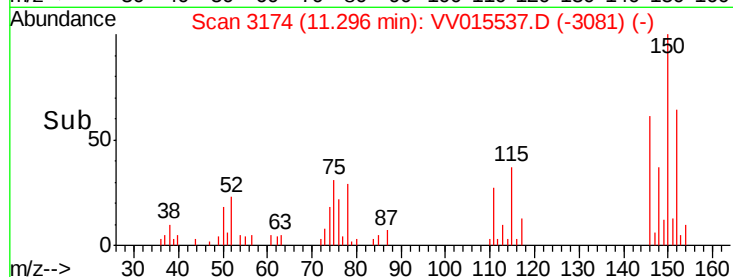
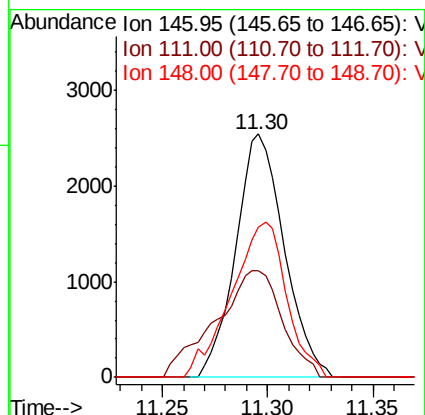
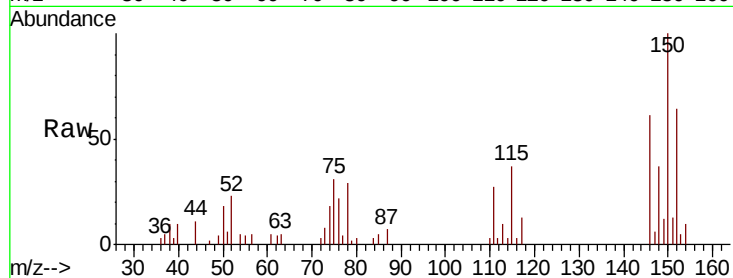




#63
 1,4-Dichlorobenzene
 Concen: 0.257 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV015537.D
 Acq: 16 Apr 2020 15:24

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:146 Resp: 4065
 Ion Ratio Lower Upper
 146 100
 111 43.7 29.4 54.6
 148 61.6 44.3 82.3



#65
 1,2-Dichlorobenzene
 Concen: 0.198 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV015537.D
 Acq: 16 Apr 2020 15:24

Tgt Ion:146 Resp: 2797
 Ion Ratio Lower Upper
 146 100
 111 52.9 35.8 53.6
 148 66.2 50.2 75.4

