

Data File : VV013712.D
Acq On : 21 Nov 2019 14:43
Operator : SY/MD
Sample : K5941-05 10X
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
B0AB5

Quant Time: Nov 22 03:59:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Nov 22 03:55:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	345254	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	340958	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	155795	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	132654	6.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	124.40%
7) Chloroethane-d5	1.58	69	123641	6.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	129.80%
11) 1,1-Dichloroethene-d2	2.13	63	200987	5.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.20%
20) 2-Butanone-d5	3.92	46	296500	60.12	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.24%
24) Chloroform-d	4.40	84	273499	5.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	116.00%
26) 1,2-Dichloroethane-d4	5.08	65	133548	5.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	117.80%
32) Benzene-d6	5.10	84	544485	5.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	114.60%
36) 1,2-Dichloropropane-d6	6.11	67	169444	6.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	120.60%
41) Toluene-d8	7.36	98	477694	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.20%
43) trans-1,3-Dichloropropene-	7.66	79	54135	5.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.20%
46) 2-Hexanone-d5	8.13	63	208424	50.96	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.92%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	112769	5.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	191068	6.37	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	127.40%#

Target Compounds

						Qvalue
3) Chloromethane	1.25	50	5173	0.169	ug/L #	65
8) Chloroethane	1.80	64	9164	0.561	ug/L #	54
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1855	0.087	ug/L #	19
12) 1,1-Dichloroethene	2.14	96	34700	1.682	ug/L #	1
14) Carbon disulfide	2.32	76	13579	0.191	ug/L	97
16) Methylene chloride	2.53	84	5408	0.189	ug/L	98
19) 1,1-Dichloroethane	3.23	63	112016	2.466	ug/L	99
21) 2-Butanone	4.03	43	11223	2.151	ug/L	88
22) cis-1,2-Dichloroethene	3.96	96	16570	0.628	ug/L #	96
25) Chloroform	4.42	83	22575	0.367	ug/L	96
27) 1,2-Dichloroethane	5.18	62	1473	0.054	ug/L #	44
34) Trichloroethene	5.96	95	323164	11.699	ug/L	99
35) Methylcyclohexane	6.11	83	41451	0.984	ug/L #	17
37) 1,2-Dichloropropane	6.11	63	18143	0.734	ug/L #	85
38) Bromodichloromethane	6.56	83	2148	0.062	ug/L #	80
39) cis-1,3-Dichloropropene	7.02	75	4159	0.117	ug/L #	83
44) trans-1,3-Dichloropropene	7.66	75	2351	0.084	ug/L #	59

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV112119\
Quantitation Report (Not Reviewed)

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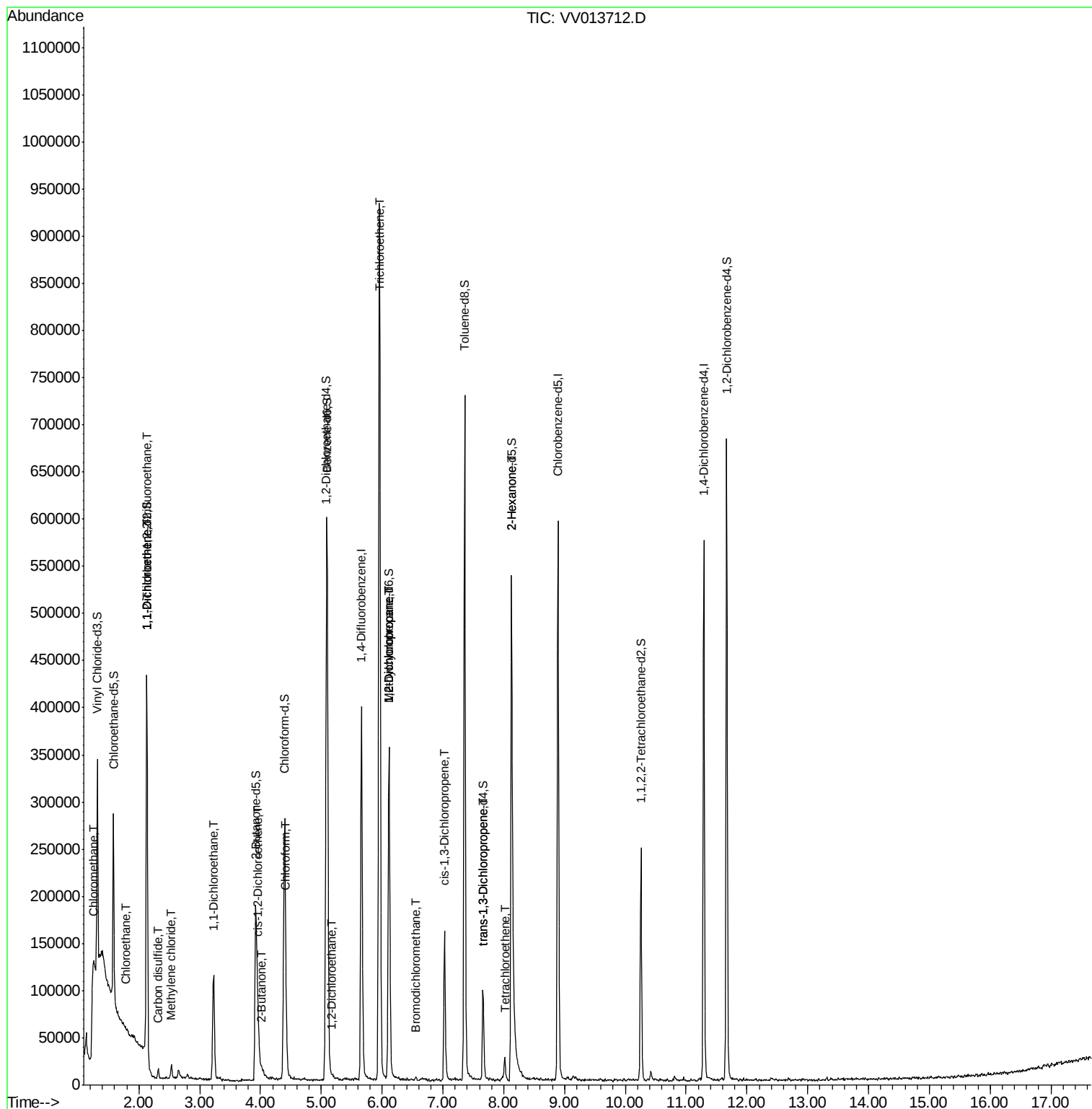
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.02	164	6223	0.243	ug/L	94
48) 2-Hexanone	8.13	43	22459	2.203	ug/L #	79

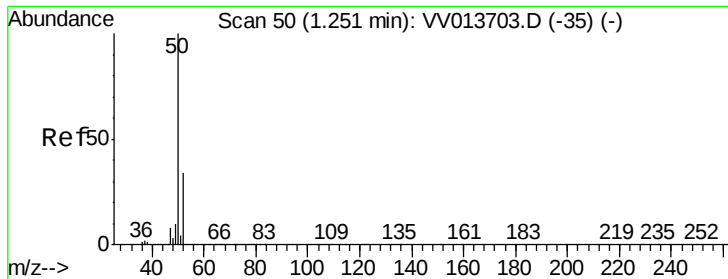
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.169 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Instrument :

MSVOA_V

ClientSampled :

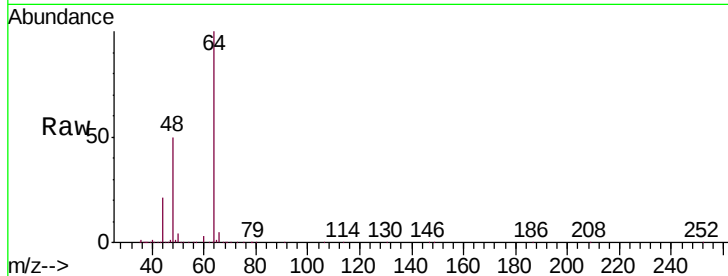
B0AB5

Tgt Ion: 50 Resp: 5173

Ion Ratio Lower Upper

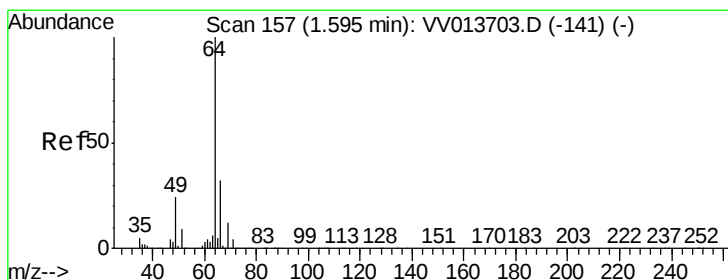
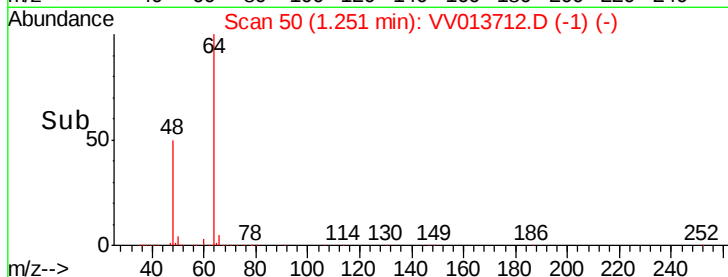
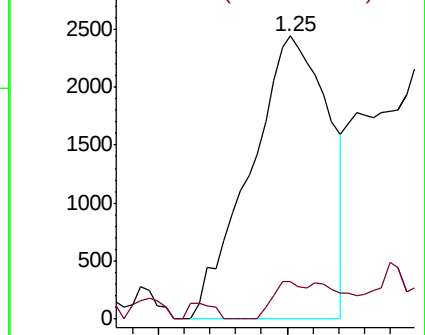
50 100

52 13.4 23.4 43.4#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#8

Chloroethane

Concen: 0.561 ug/L

RT: 1.80 min Scan# 220

Delta R.T. 0.20 min

Lab File: VV013712.D

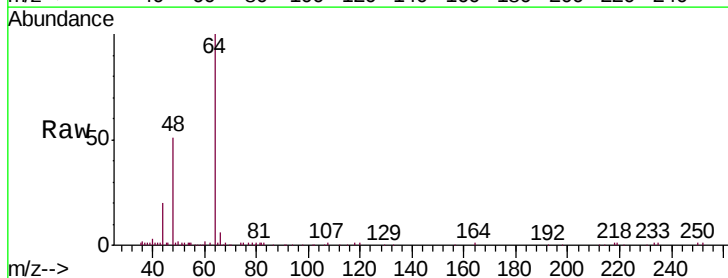
Acq: 21 Nov 2019 14:43

Tgt Ion: 64 Resp: 9164

Ion Ratio Lower Upper

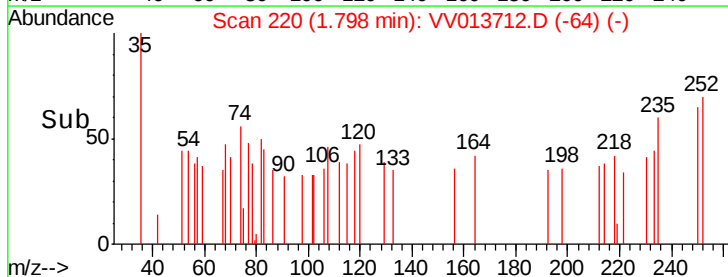
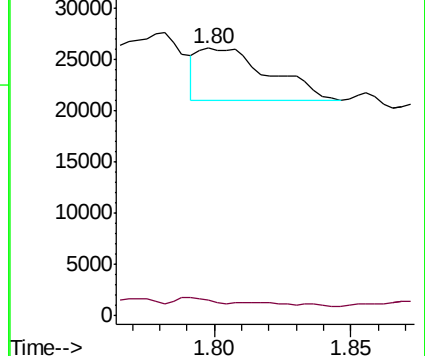
64 100

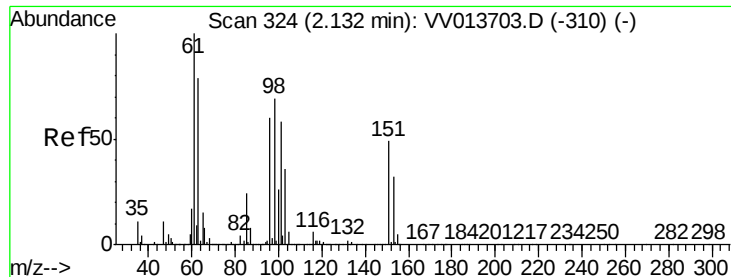
66 5.8 21.9 40.7#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

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

Concen: 0.087 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Instrument :

MSVOA_V

ClientSampleId :

B0AB5

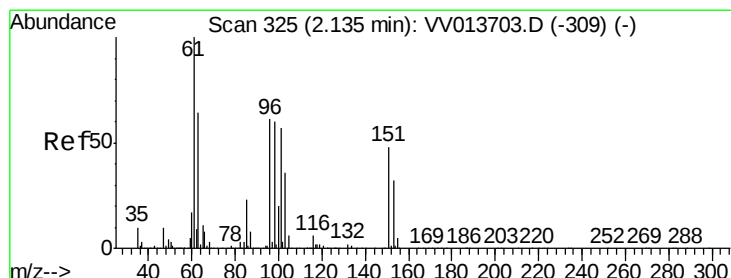
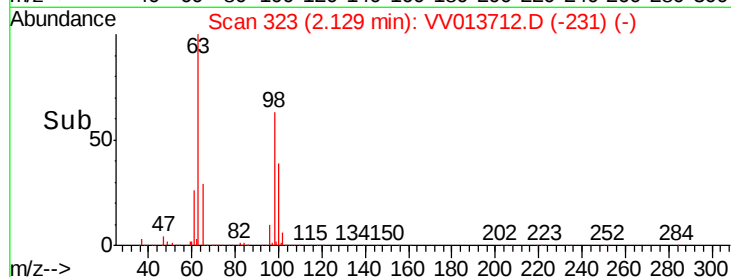
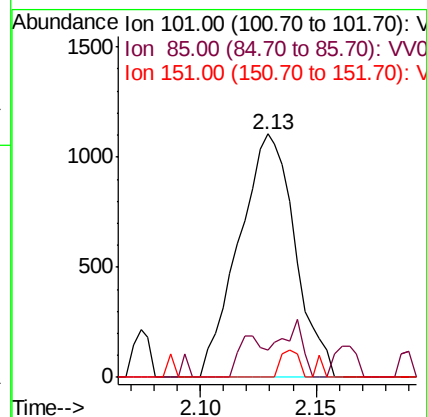
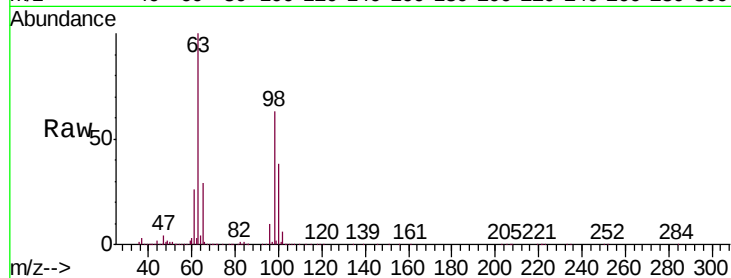
Tgt Ion: 101 Resp: 1855

Ion Ratio Lower Upper

101 100

85 7.9 32.0 48.0#

151 0.0 69.0 103.6#



#12

1,1-Dichloroethene

Concen: 1.682 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

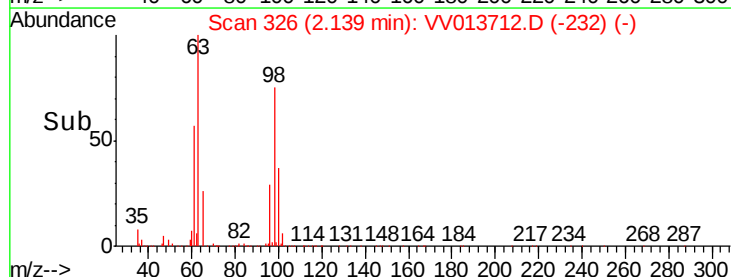
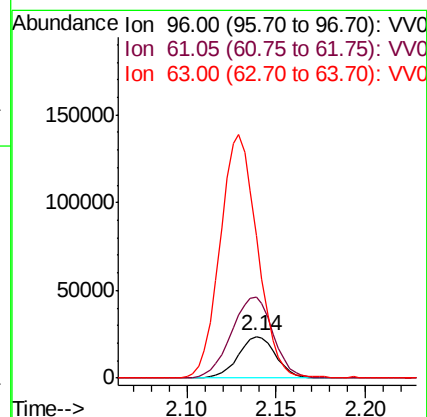
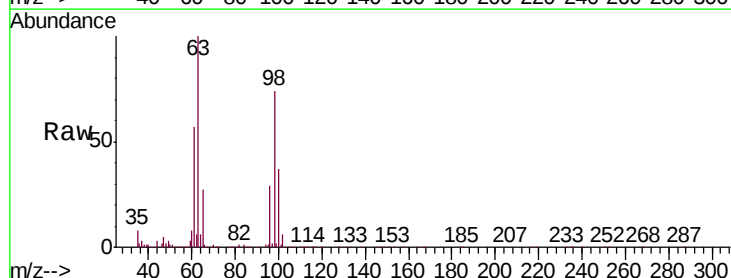
Tgt Ion: 96 Resp: 34700

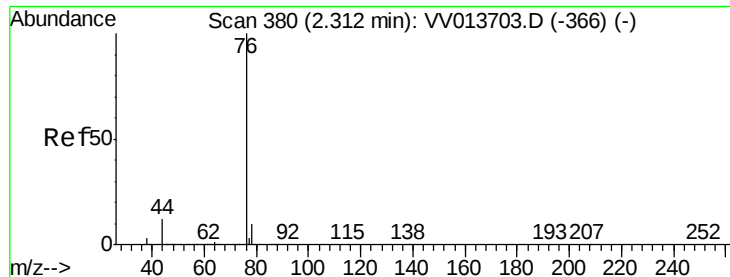
Ion Ratio Lower Upper

96 100

61 196.3 112.5 208.9

63 344.0 76.9 142.7#





#14

Carbon disulfide

Concen: 0.191 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Instrument :

MSVOA_V

ClientSampleId :

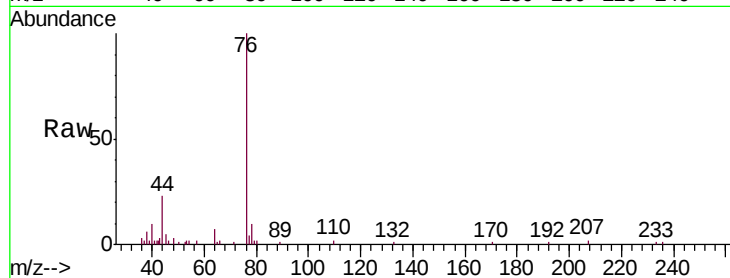
B0AB5

Tgt Ion: 76 Resp: 13579

Ion Ratio Lower Upper

76 100

78 10.3 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

8000

6000

4000

2000

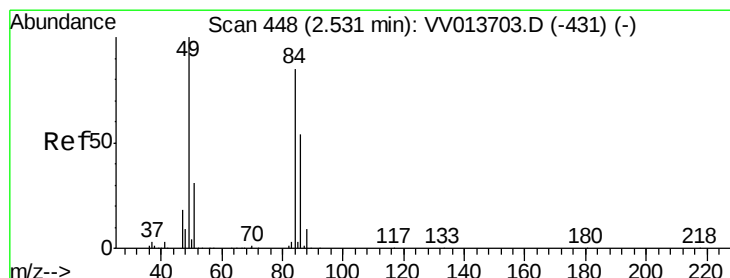
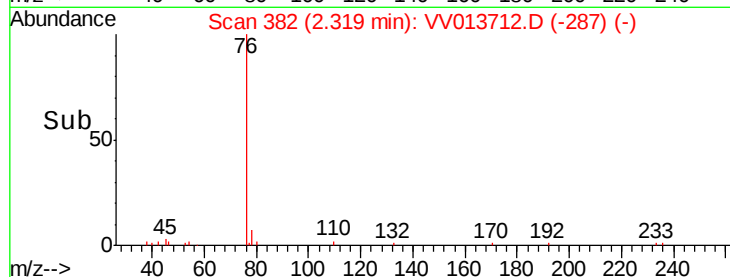
0

Time-->

2.25

2.30

2.35



#16

Methylene chloride

Concen: 0.189 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

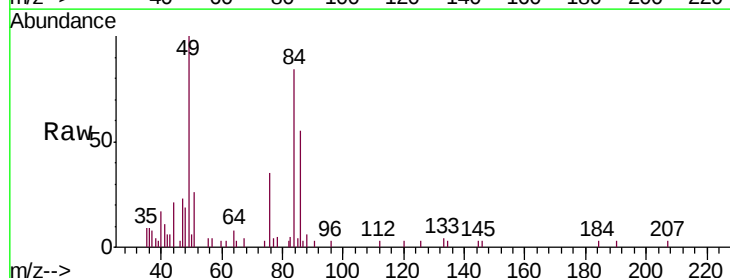
Tgt Ion: 84 Resp: 5408

Ion Ratio Lower Upper

84 100

86 66.3 44.1 81.9

49 119.6 83.4 155.0



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

5000

4000

3000

2000

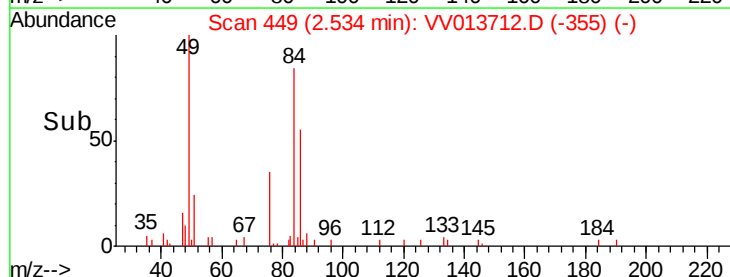
1000

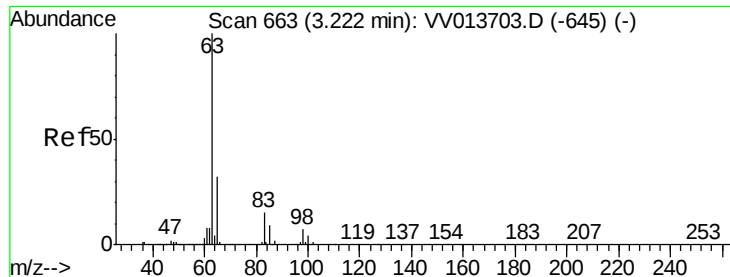
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Time-->

2.50

2.55

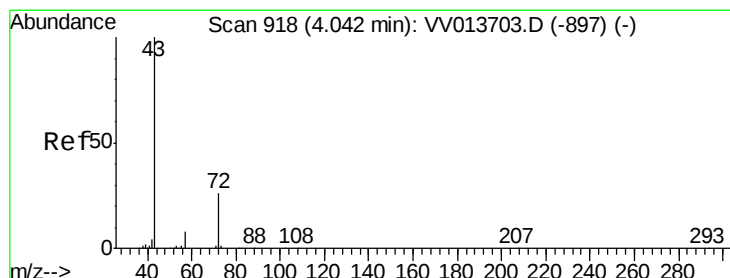
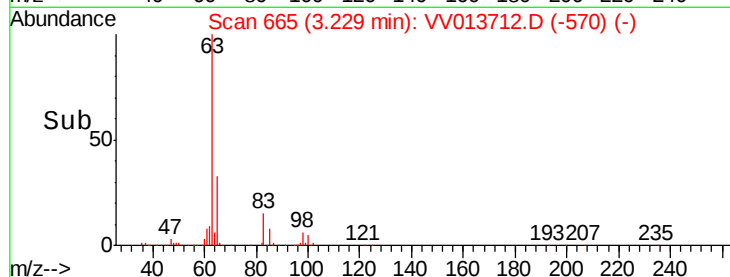
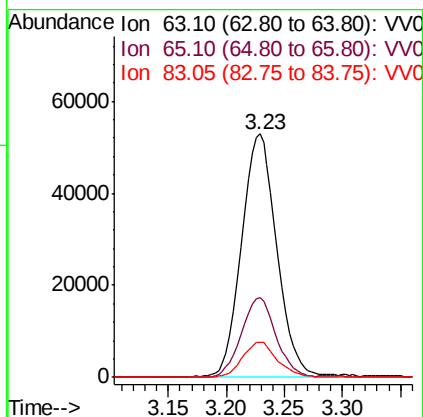
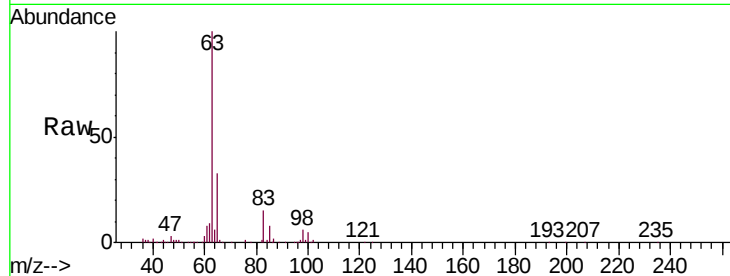




#19
 1,1-Dichloroethane
 Concen: 2.466 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.01 min
 Lab File: VV013712.D
 Acq: 21 Nov 2019 14:43

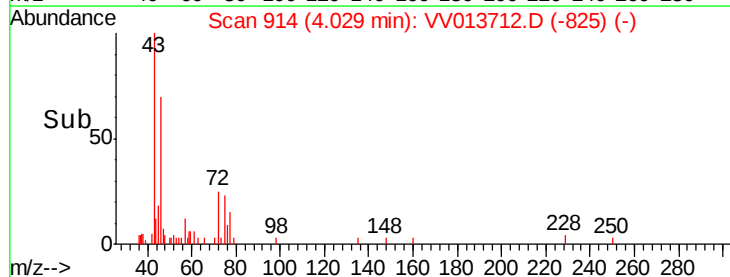
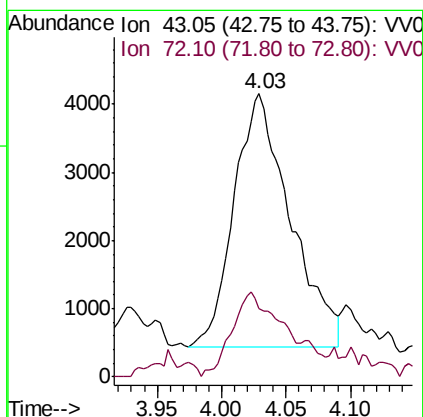
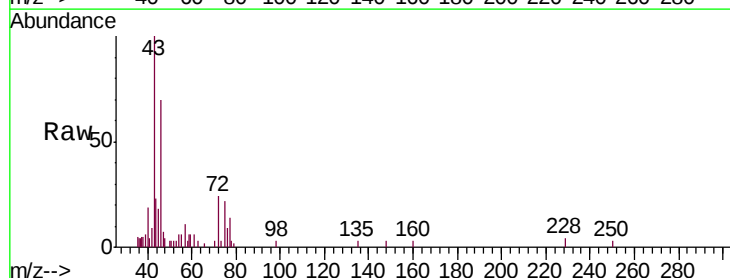
Instrument :
 MSVOA_V
 ClientSampleId :
 B0AB5

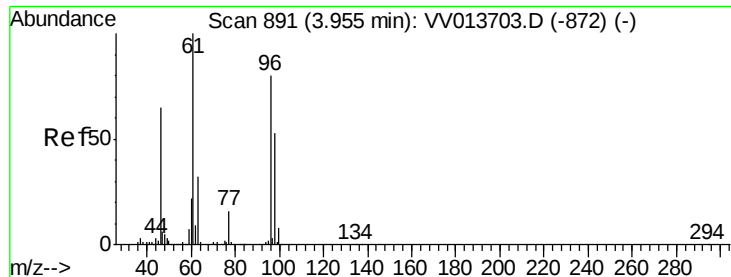
Tgt Ion: 63 Resp: 112016
 Ion Ratio Lower Upper
 63 100
 65 32.8 22.5 41.7
 83 14.5 9.7 17.9



#21
 2-Butanone
 Concen: 2.151 ug/L
 RT: 4.03 min Scan# 914
 Delta R.T. -0.01 min
 Lab File: VV013712.D
 Acq: 21 Nov 2019 14:43

Tgt Ion: 43 Resp: 11223
 Ion Ratio Lower Upper
 43 100
 72 29.3 11.6 34.8



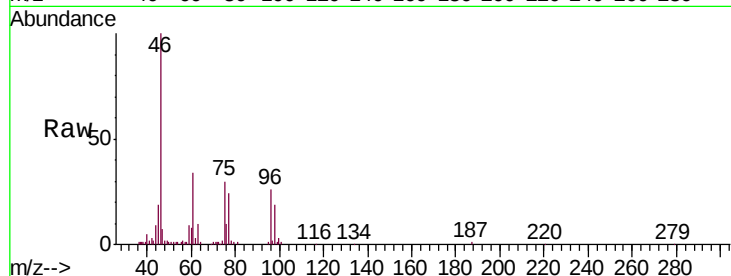


#22

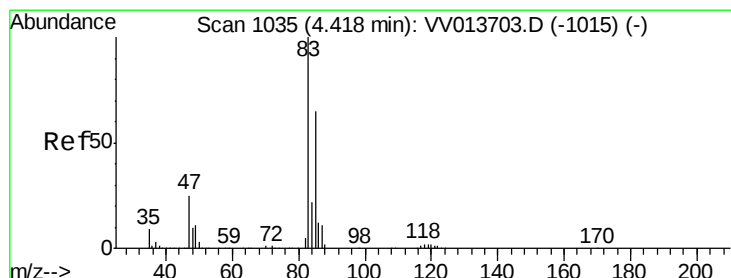
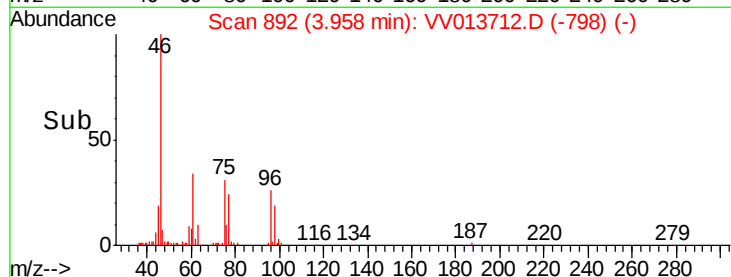
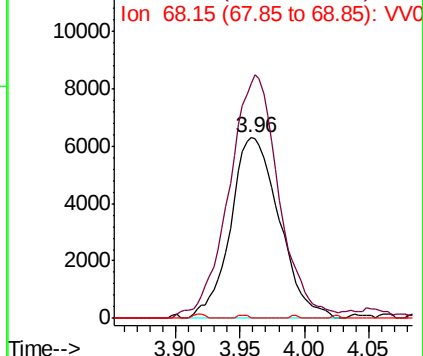
cis-1,2-Dichloroethene
 Concen: 0.628 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013712.D
 Acq: 21 Nov 2019 14:43

Instrument :
 MSVOA_V
 ClientSampleId :
 B0AB5

Tgt Ion: 96 Resp: 16570
 Ion Ratio Lower Upper
 96 100
 61 130.4 87.7 162.9
 68 0.0 0.1 0.3#



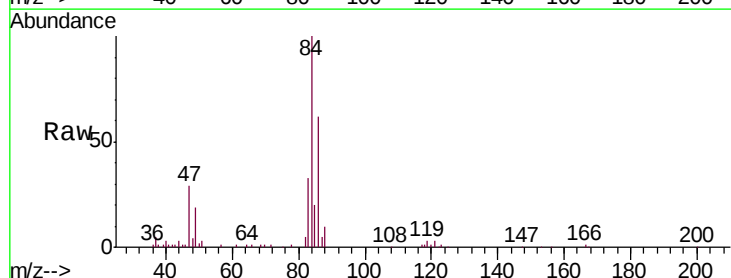
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



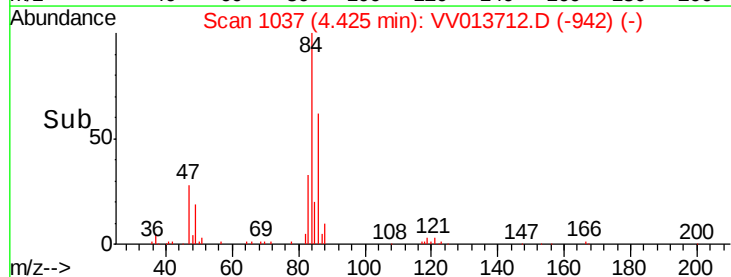
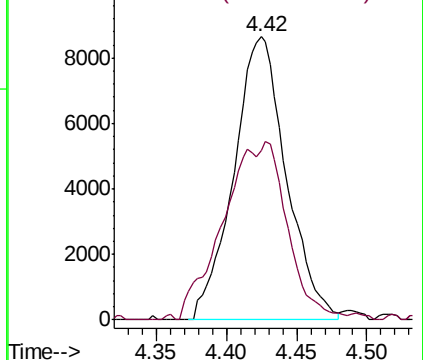
#25

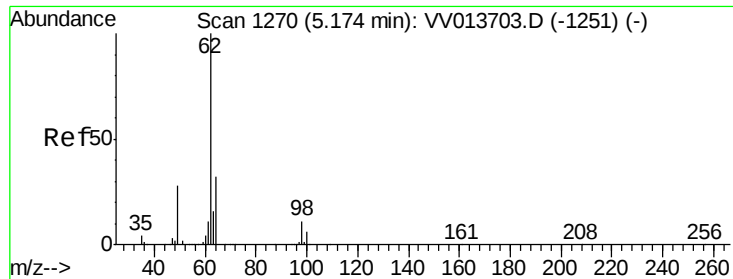
Chloroform
 Concen: 0.367 ug/L
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VV013712.D
 Acq: 21 Nov 2019 14:43

Tgt Ion: 83 Resp: 22575
 Ion Ratio Lower Upper
 83 100
 85 60.1 44.4 82.5



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 0.054 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Instrument :

MSVOA_V

ClientSampleId :

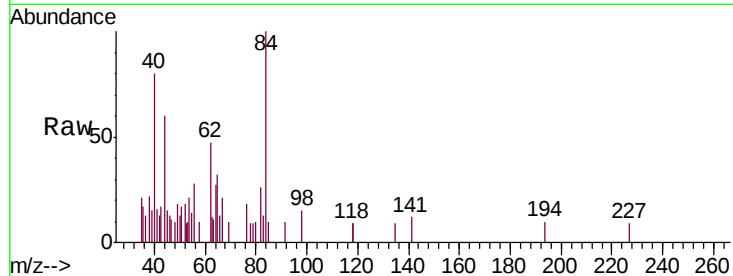
B0AB5

Tgt Ion: 62 Resp: 1473

Ion Ratio Lower Upper

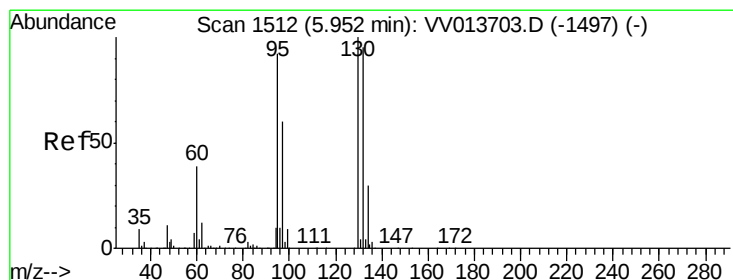
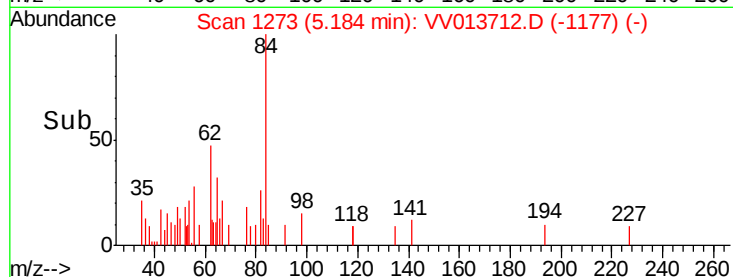
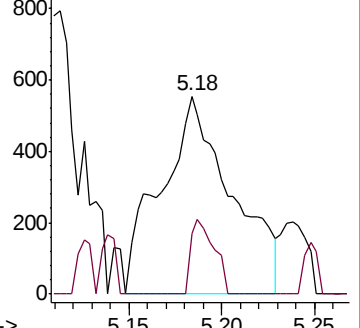
62 100

98 30.9 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VV013712.D (-1273) (-)

Ion 98.05 (97.75 to 98.75): VV013712.D (-1273) (-)



#34

Trichloroethene

Concen: 11.699 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Tgt Ion: 95 Resp: 323164

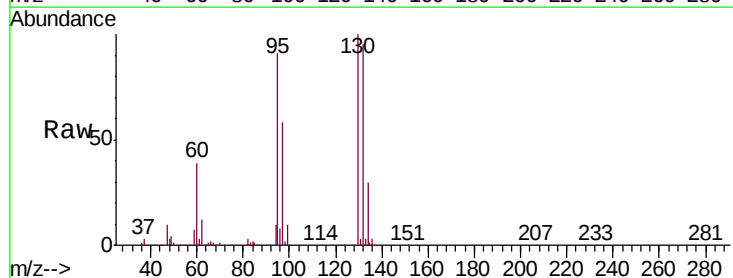
Ion Ratio Lower Upper

95 100

97 64.3 44.8 83.2

132 104.9 72.9 135.3

130 109.9 75.1 139.5

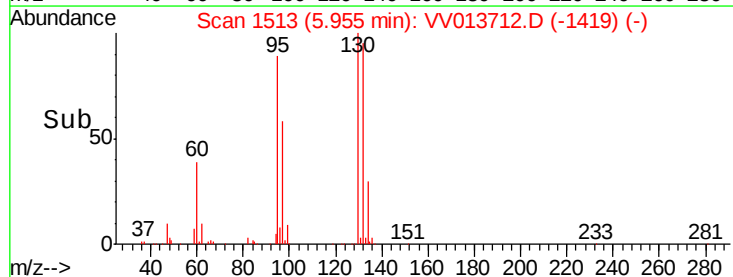
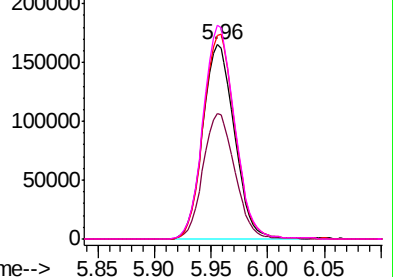


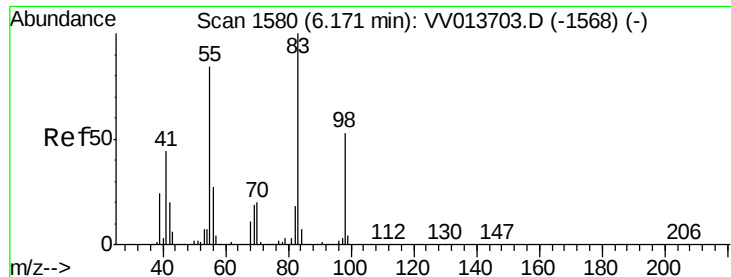
Abundance Ion 95.00 (94.70 to 95.70): VV013712.D (-1513) (-)

Ion 96.95 (96.65 to 97.65): VV013712.D (-1513) (-)

Ion 131.95 (131.65 to 132.65): VV013712.D (-1513) (-)

Ion 129.95 (129.65 to 130.65): VV013712.D (-1513) (-)

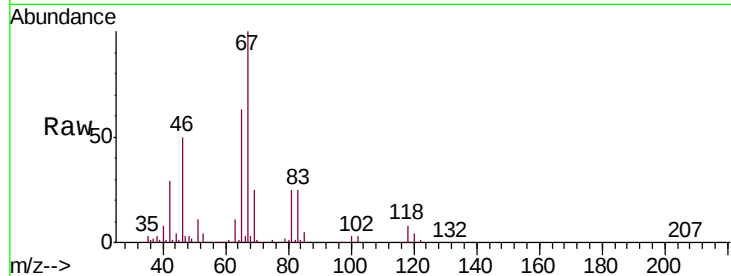




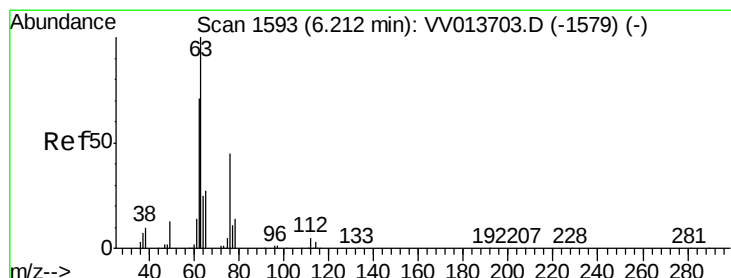
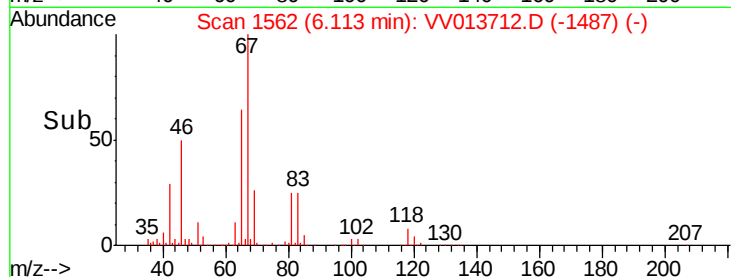
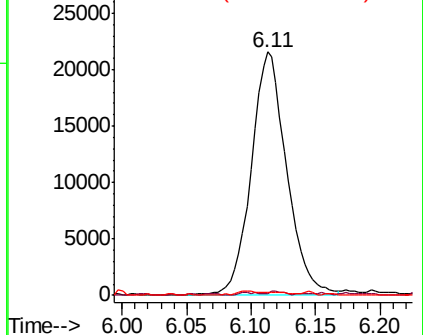
#35
Methylcyclohexane
Concen: 0.984 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.06 min
Lab File: VV013712.D
Acq: 21 Nov 2019 14:43

Instrument :
MSVOA_V
ClientSampleId :
B0AB5

Tgt Ion: 83 Resp: 41451
Ion Ratio Lower Upper
83 100
55 0.6 64.1 96.1#
98 0.0 38.2 57.2#

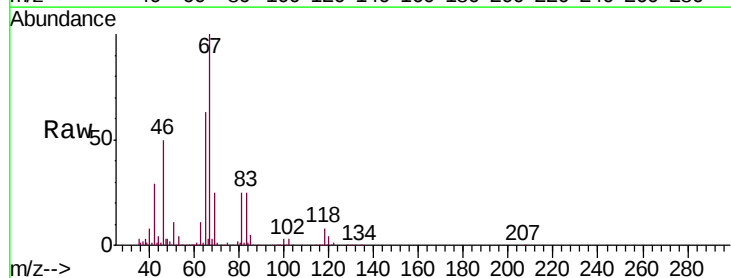


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

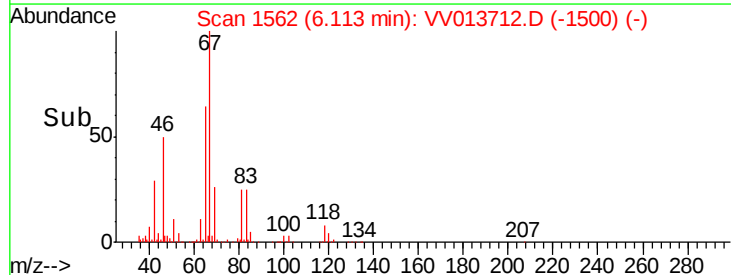
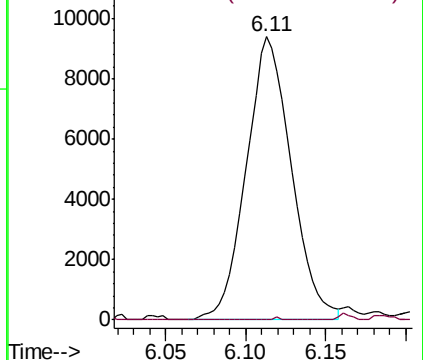


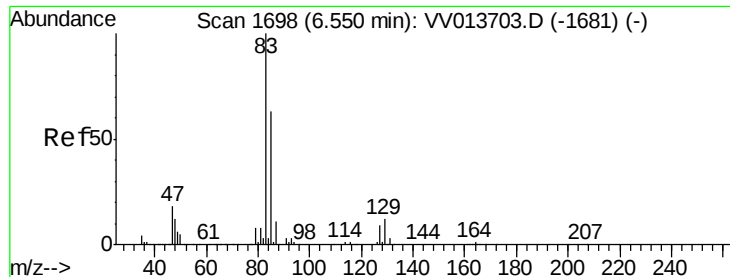
#37
1,2-Dichloropropane
Concen: 0.734 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.10 min
Lab File: VV013712.D
Acq: 21 Nov 2019 14:43

Tgt Ion: 63 Resp: 18143
Ion Ratio Lower Upper
63 100
112 0.1 4.1 6.1#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#38

Bromodichloromethane

Concen: 0.062 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Instrument :

MSVOA_V

ClientSampleId :

B0AB5

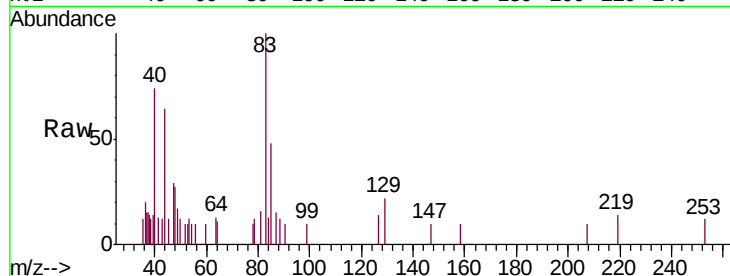
Tgt Ion: 83 Resp: 2148

Ion Ratio Lower Upper

83 100

85 47.9 44.9 83.5

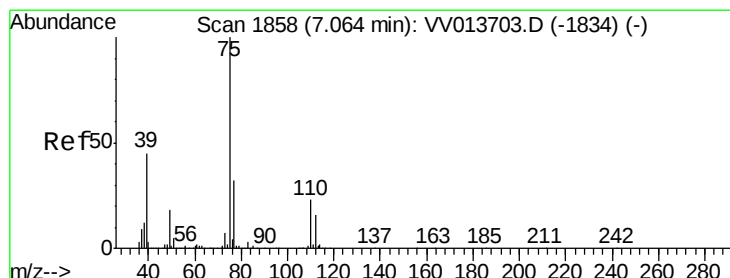
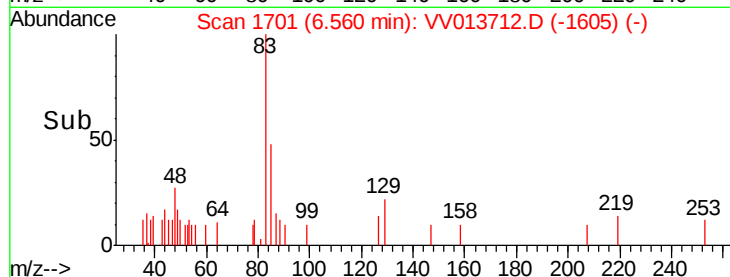
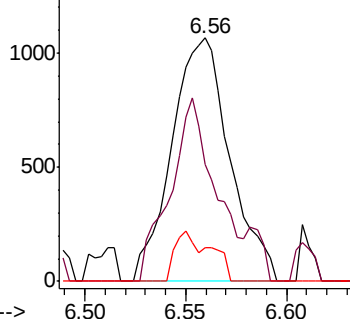
127 13.9 7.0 10.6#



Abundance Ion 82.95 (82.65 to 83.65): VV013712.D (-1695) (-)

Ion 85.00 (84.70 to 85.70): VV013712.D (-1695) (-)

Ion 126.90 (126.60 to 127.60): VV013712.D (-1695) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.117 ug/L

RT: 7.02 min Scan# 1845

Delta R.T. -0.04 min

Lab File: VV013712.D

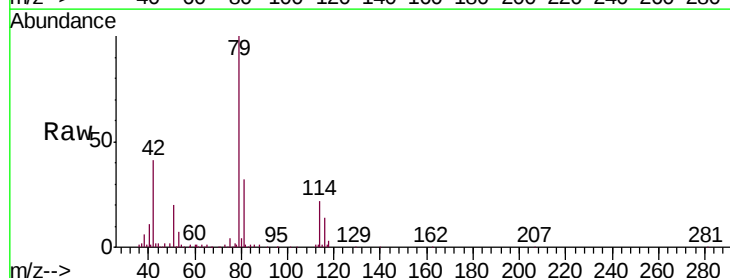
Acq: 21 Nov 2019 14:43

Tgt Ion: 75 Resp: 4159

Ion Ratio Lower Upper

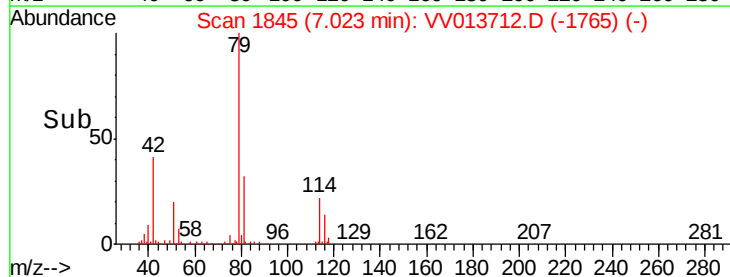
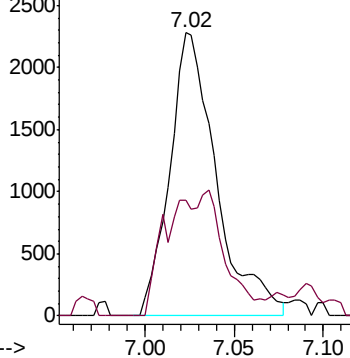
75 100

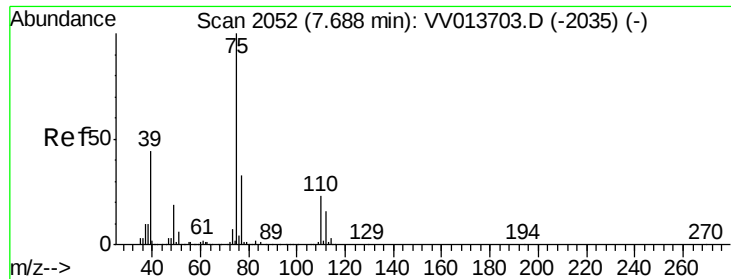
77 41.0 22.0 40.8#



Abundance Ion 75.05 (74.75 to 75.75): VV013712.D (-1765) (-)

Ion 77.05 (76.75 to 77.75): VV013712.D (-1765) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.084 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Instrument :

MSVOA_V

ClientSampleId :

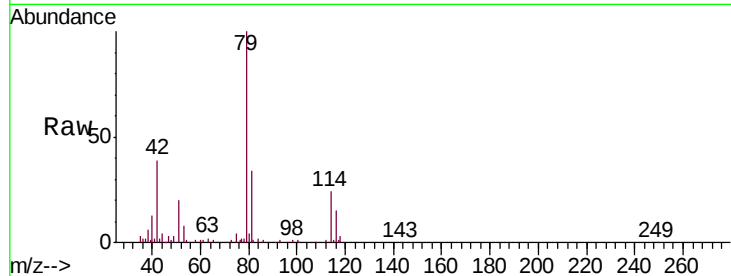
B0AB5

Tgt Ion: 75 Resp: 2351

Ion Ratio Lower Upper

75 100

77 53.3 21.6 40.2#



Abundance Ion 75.05 (74.75 to 75.75): VV013703.D (-2035) (-)

Ion 77.05 (76.75 to 77.75): VV013703.D (-2035) (-)

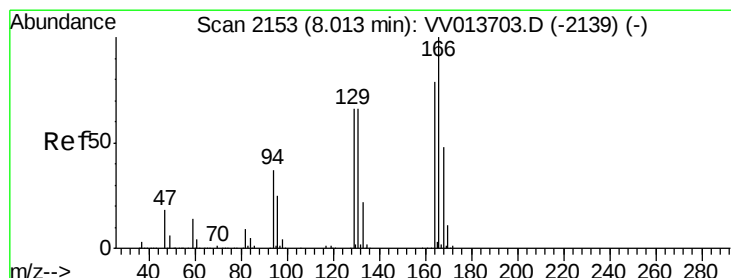
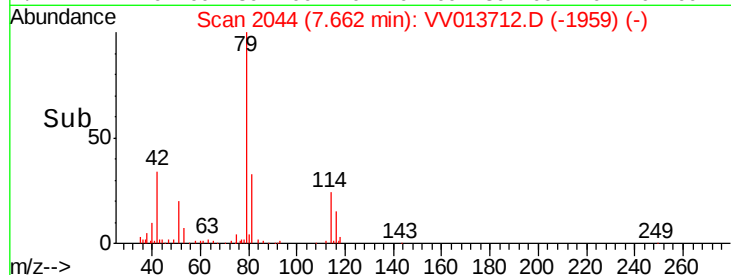
7.66

1000

500

0

Time-->



#47

Tetrachloroethene

Concen: 0.243 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.01 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Tgt Ion: 164 Resp: 6223

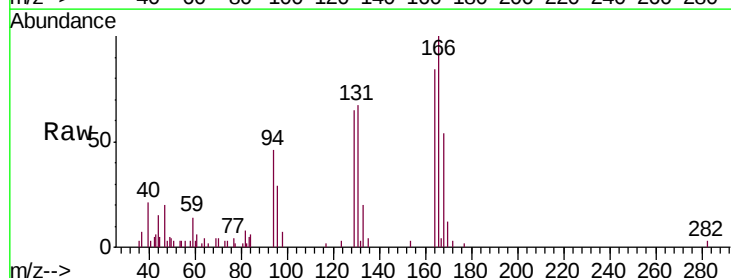
Ion Ratio Lower Upper

164 100

129 77.2 59.1 109.9

131 79.3 58.9 109.5

166 118.6 87.8 163.2



Abundance Ion 163.90 (163.60 to 164.60): VV013703.D (-2139) (-)

Ion 128.95 (128.65 to 129.65): VV013703.D (-2139) (-)

Ion 130.95 (130.65 to 131.65): VV013703.D (-2139) (-)

Ion 165.90 (165.60 to 166.60): VV013703.D (-2139) (-)

8.02

6000

5000

4000

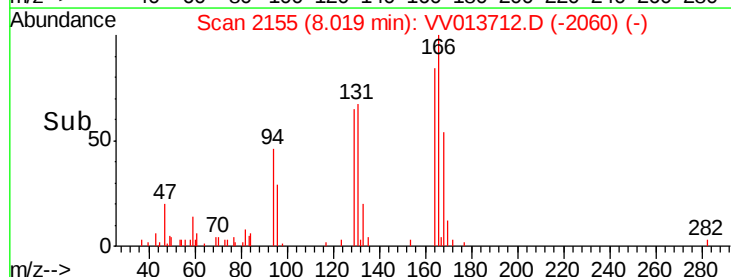
3000

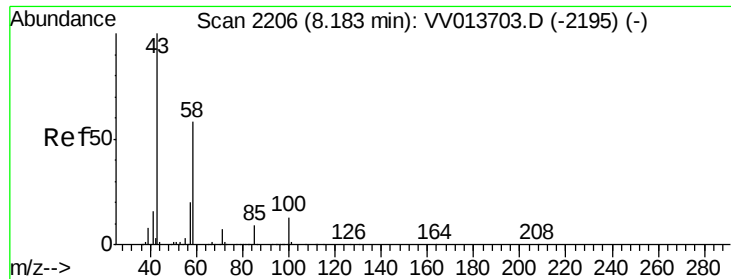
2000

1000

0

Time-->





#48

2-Hexanone

Concen: 2.203 ug/L

RT: 8.13 min Scan# 2189

Delta R.T. -0.05 min

Lab File: VV013712.D

Acq: 21 Nov 2019 14:43

Instrument :

MSVOA_V

ClientSampleId :

B0AB5

Tgt Ion: 43 Resp: 22459

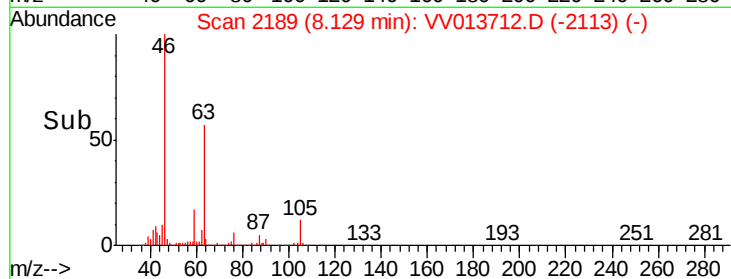
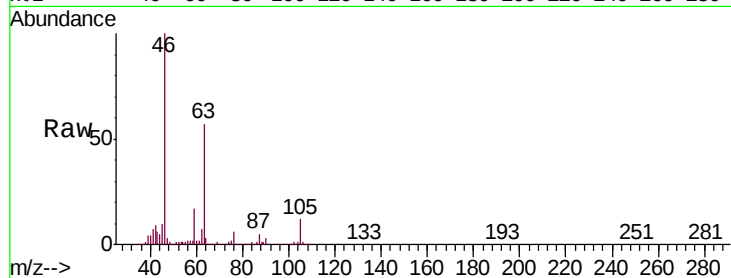
Ion Ratio Lower Upper

43 100

58 45.8 43.0 64.6

57 39.4 15.4 23.2#

100 2.1 10.1 15.1#



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

