

Data File : VV013752.D
Acq On : 22 Nov 2019 22:36
Operator : SY/MD
Sample : K5941-19
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
B0AD7

Quant Time: Nov 23 01:41:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Nov 23 01:35:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	301636	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	294014	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	124939	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	97633	5.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.60%
7) Chloroethane-d5	1.58	69	86631	5.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	109.20%
11) 1,1-Dichloroethene-d2	2.14	63	476167	15.15	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	303.00%#
20) 2-Butanone-d5	3.72	46	19786	5.10	ug/L	-0.23
Spiked Amount	50.000	Range	40 - 130	Recovery	=	10.20%#
24) Chloroform-d	4.40	84	206907	5.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.00%
26) 1,2-Dichloroethane-d4	5.08	65	111200	6.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	124.20%
32) Benzene-d6	5.10	84	396858	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
36) 1,2-Dichloropropane-d6	6.11	67	126329	5.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.80%
41) Toluene-d8	7.36	98	348166	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
43) trans-1,3-Dichloropropene-	7.66	79	42676	4.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.00%
46) 2-Hexanone-d5	8.13	63	231405	71.30	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	142.60%#
57) 1,1,2,2-Tetrachloroethane-	10.25	84	103565	6.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	132.20%#
64) 1,2-Dichlorobenzene-d4	11.67	152	130499	5.92	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	118.40%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	39191	2.221 ug/L	96
5) Vinyl chloride	1.13	62	3625	0.201 ug/L	98
8) Chloroethane	1.60	64	21069	1.940 ug/L #	56
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3124	0.188 ug/L #	21
12) 1,1-Dichloroethene	2.14	96	682201	47.041 ug/L #	67
13) Acetone	2.18	43	1273434	469.207 ug/L #	56
14) Carbon disulfide	2.32	76	22284	0.666 ug/L	98
15) Methyl Acetate	2.30	43	50169	8.257 ug/L #	60
16) Methylene chloride	2.53	84	16241	0.818 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	9955	0.251 ug/L #	70
19) 1,1-Dichloroethane	3.23	63	1242798	38.014 ug/L	99
21) 2-Butanone	4.01	43	116536	28.407 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	81615	4.250 ug/L #	98
27) 1,2-Dichloroethane	5.18	62	9646	0.486 ug/L	100
34) Trichloroethene	5.96	95	513468	25.809 ug/L	97
35) Methylcyclohexane	6.12	83	30457	1.147 ug/L #	20
37) 1,2-Dichloropropane	6.22	63	11721	0.632 ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV112219\
Quantitation Report (Not Reviewed)

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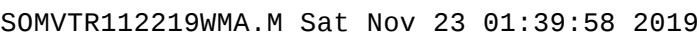
Instrument :
MSVOA_V
ClientSampleId :
B0AD7

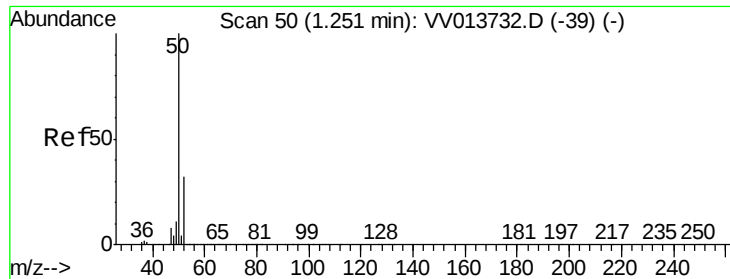
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.18	43	58023	5.365	ug/L #	45
44) trans-1,3-Dichloropropene	7.66	75	2206	0.107	ug/L	96
48) 2-Hexanone	8.18	43	7086	0.918	ug/L #	43

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

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#3

Chloromethane

Concen: 2.221 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Instrument :

MSVOA_V

ClientSampleId :

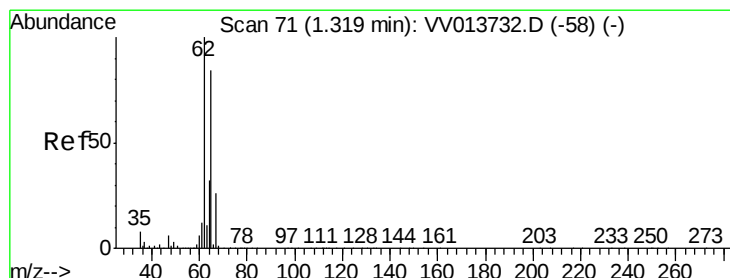
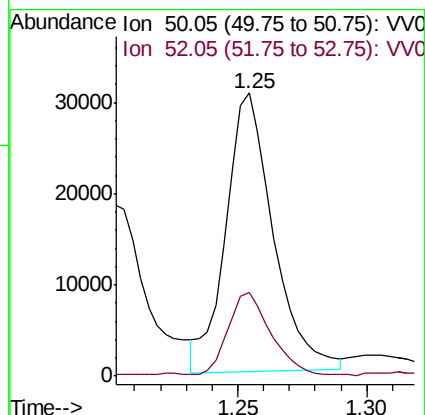
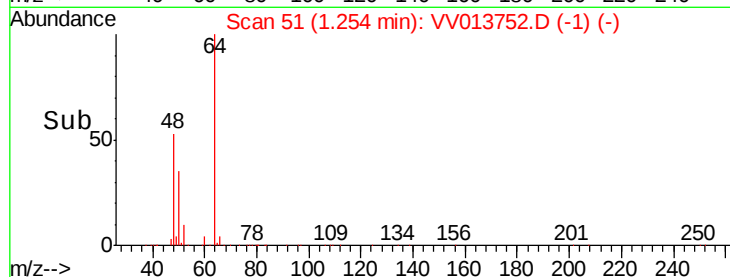
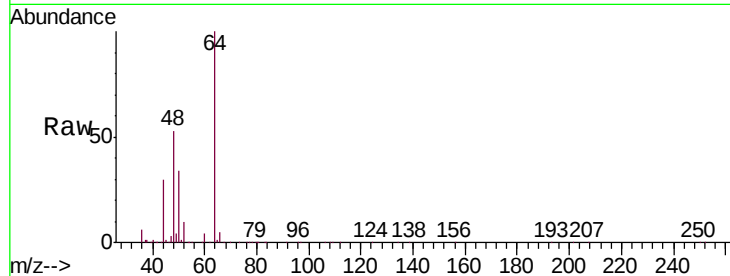
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Tgt Ion: 50 Resp: 39191

Ion Ratio Lower Upper

50 100

52 29.7 22.5 41.7



#5

Vinyl chloride

Concen: 0.201 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.19 min

Lab File: VV013752.D

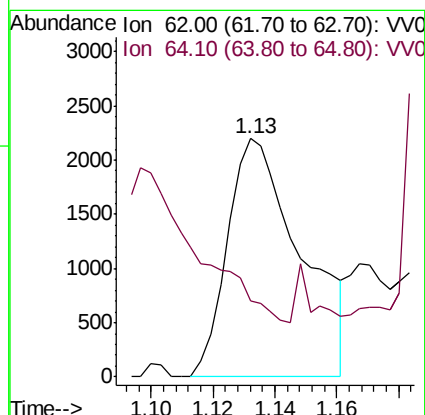
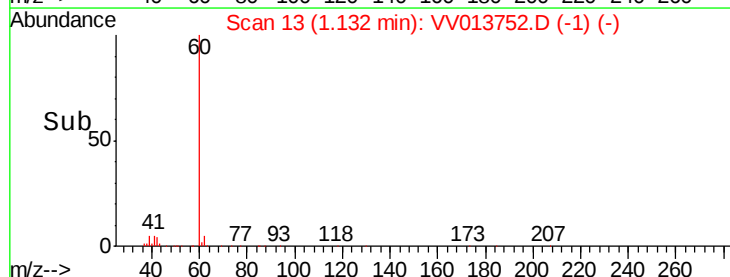
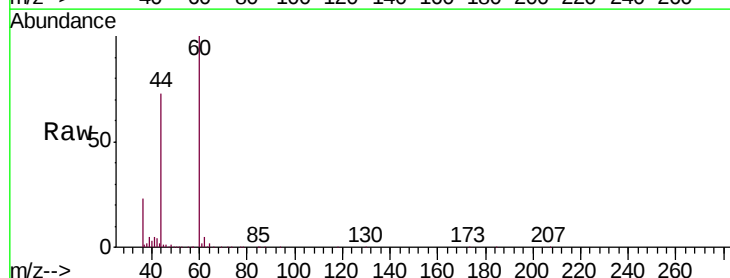
Acq: 22 Nov 2019 22:36

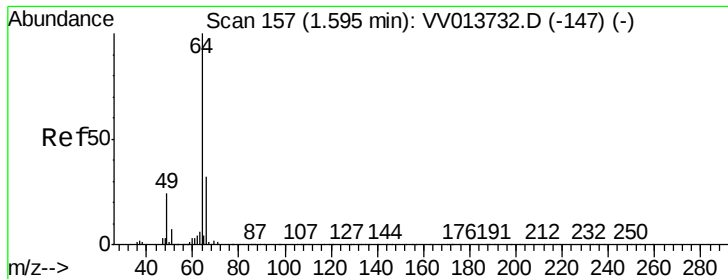
Tgt Ion: 62 Resp: 3625

Ion Ratio Lower Upper

62 100

64 32.2 23.3 43.3





#8

Chloroethane

Concen: 1.940 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Instrument :

MSVOA_V

ClientSampleId :

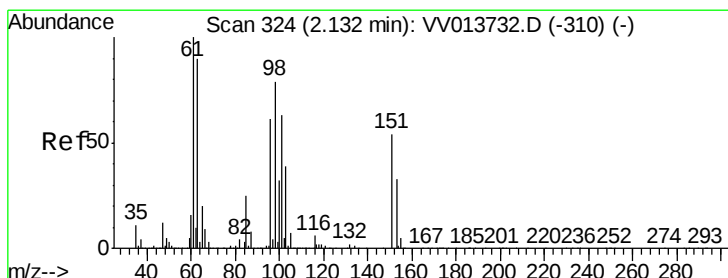
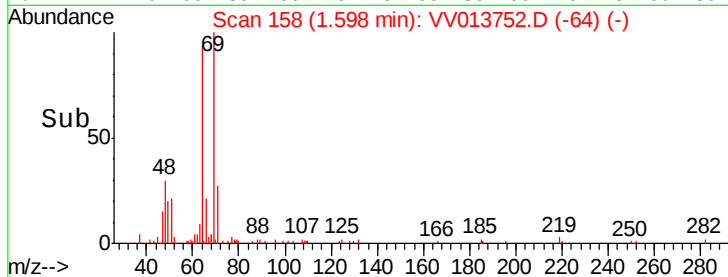
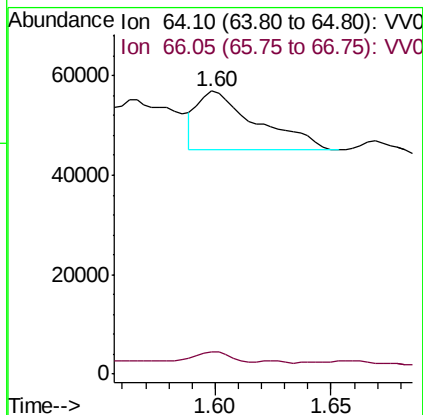
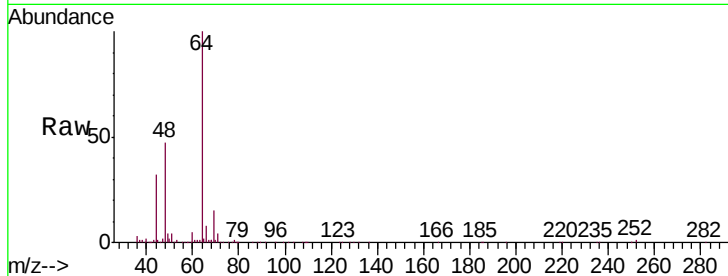
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Tgt Ion: 64 Resp: 21069

Ion Ratio Lower Upper

64 100

66 7.8 22.6 42.0#



#10

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

Concen: 0.188 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

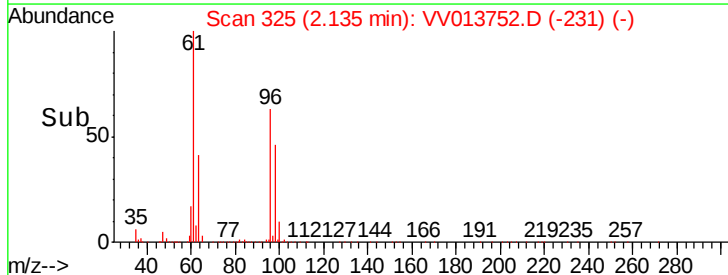
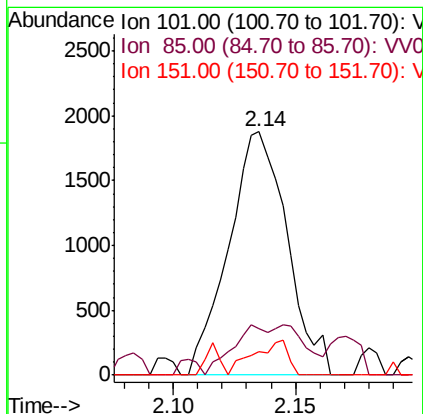
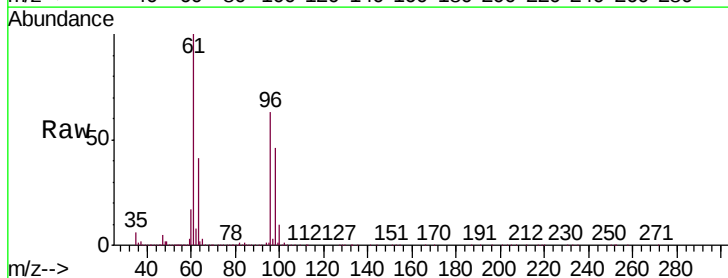
Tgt Ion: 101 Resp: 3124

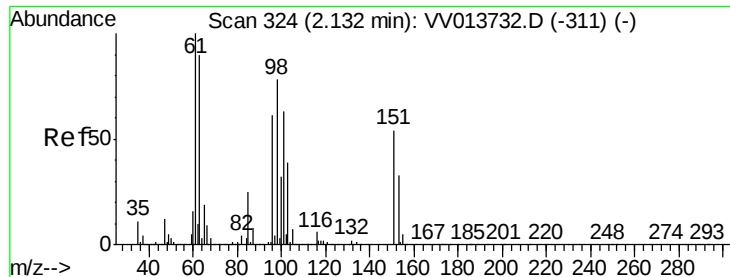
Ion Ratio Lower Upper

101 100

85 12.4 33.4 50.0#

151 0.0 69.4 104.0#

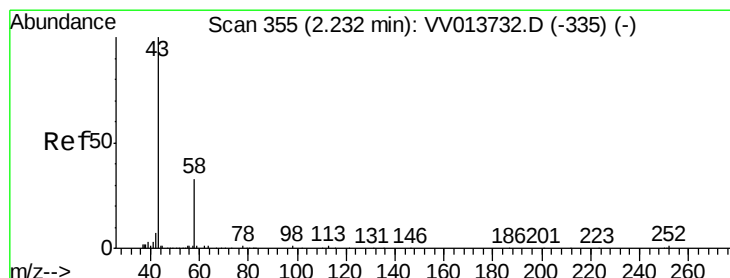
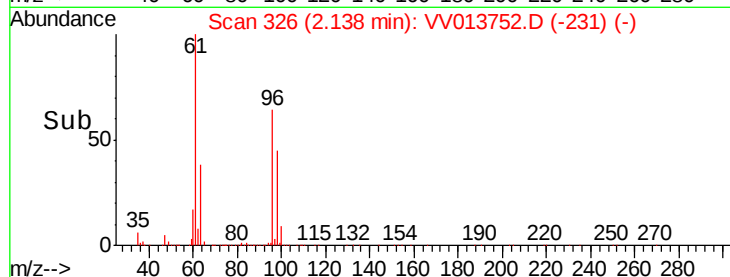
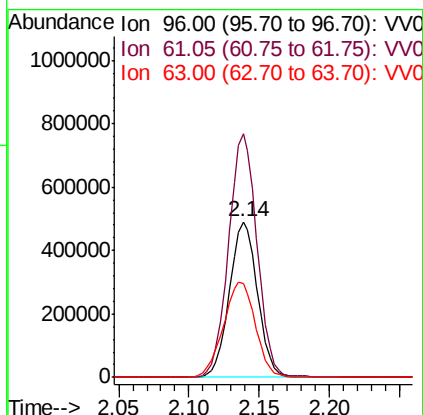
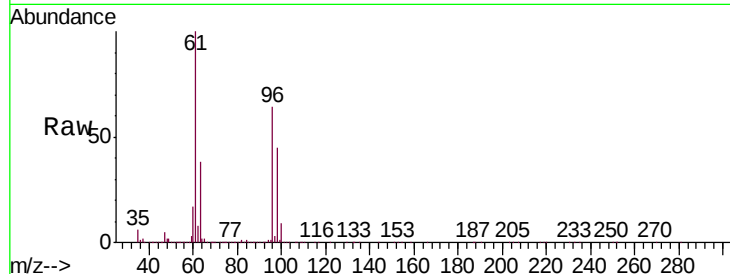




#12
 1,1-Dichloroethene
 Concen: 47.041 ug/L
 RT: 2.14 min Scan# 326
 Delta R.T. 0.01 min
 Lab File: VV013752.D
 Acq: 22 Nov 2019 22:36

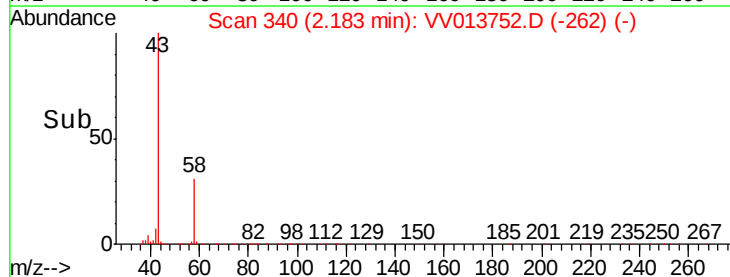
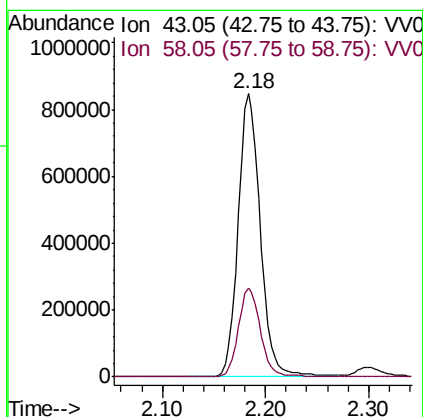
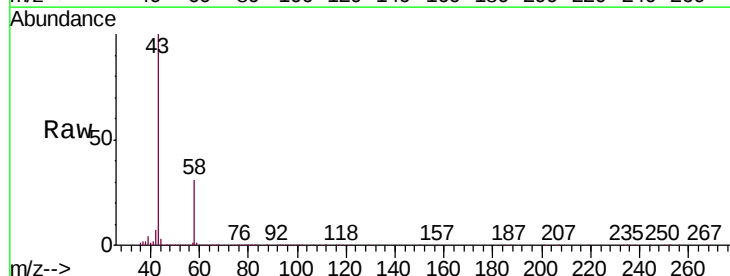
Instrument :
 MSVOA_V
 ClientSampleId :
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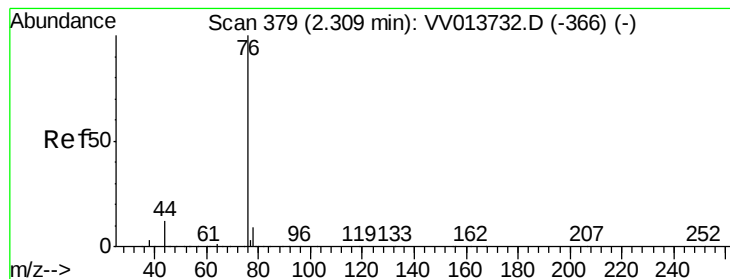
Tgt Ion: 96 Resp: 682201
 Ion Ratio Lower Upper
 96 100
 61 156.7 116.3 215.9
 63 60.1 96.7 179.7#



#13
 Acetone
 Concen: 469.207 ug/L
 RT: 2.18 min Scan# 340
 Delta R.T. -0.05 min
 Lab File: VV013752.D
 Acq: 22 Nov 2019 22:36

Tgt Ion: 43 Resp: 1273434
 Ion Ratio Lower Upper
 43 100
 58 31.2 0.0 27.2#





#14

Carbon disulfide

Concen: 0.666 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Instrument :

MSVOA_V

ClientSampleId :

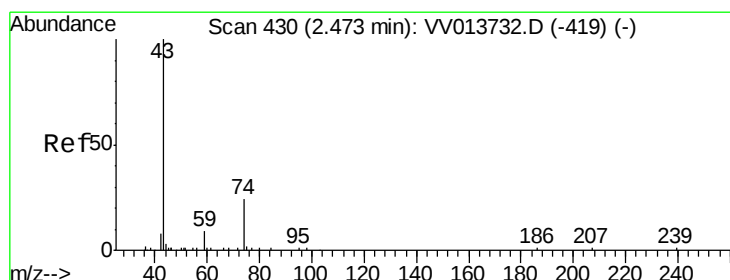
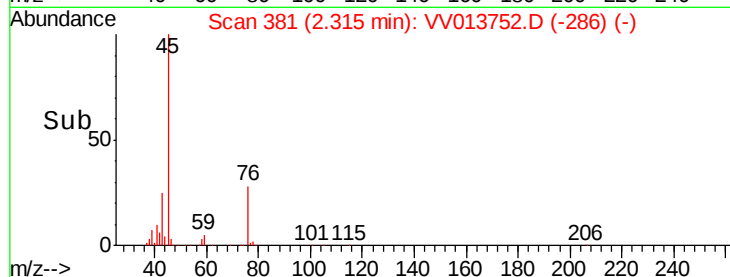
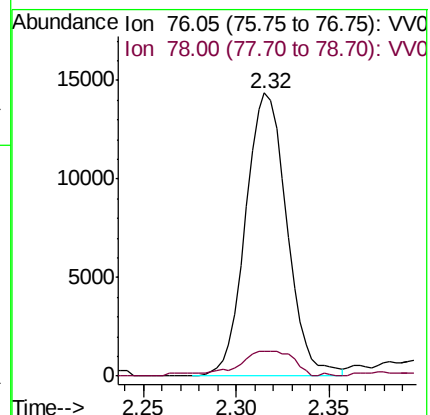
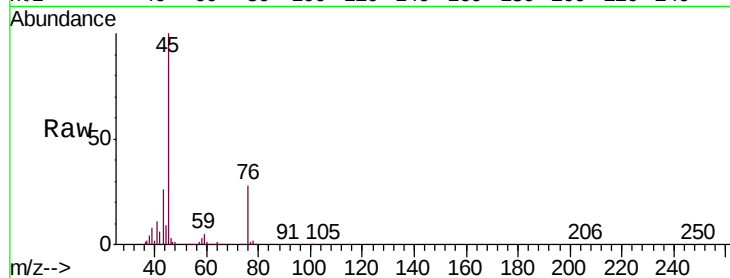
B0AD7

Tgt Ion: 76 Resp: 22284

Ion Ratio Lower Upper

76 100

78 8.6 7.5 11.3



#15

Methyl Acetate

Concen: 8.257 ug/L

RT: 2.30 min Scan# 376

Delta R.T. -0.17 min

Lab File: VV013752.D

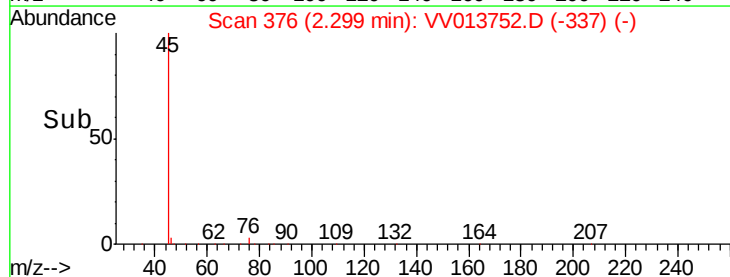
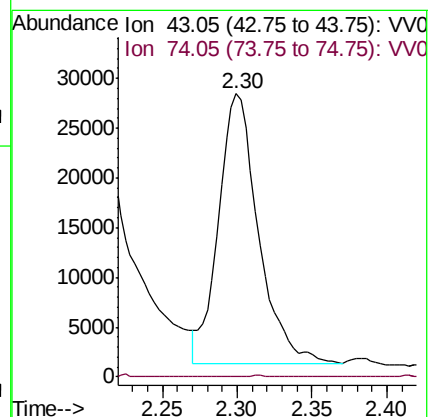
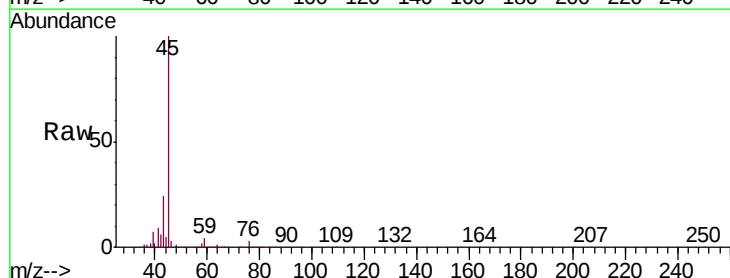
Acq: 22 Nov 2019 22:36

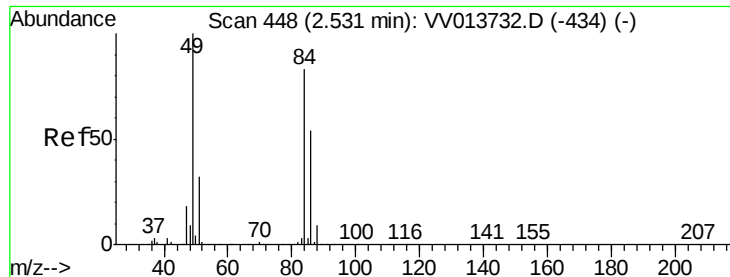
Tgt Ion: 43 Resp: 50169

Ion Ratio Lower Upper

43 100

74 5.4 20.5 30.7#

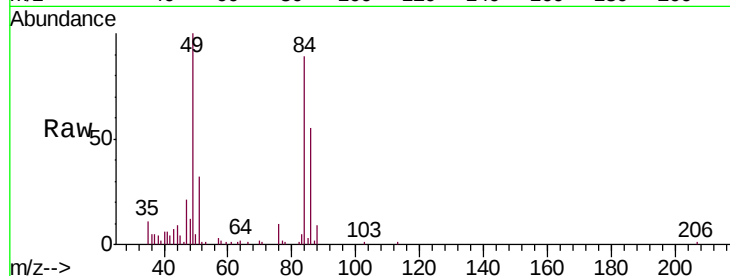




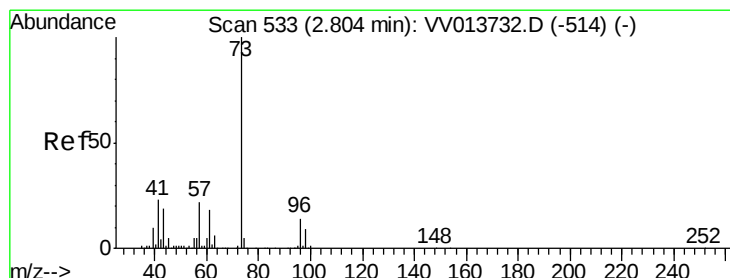
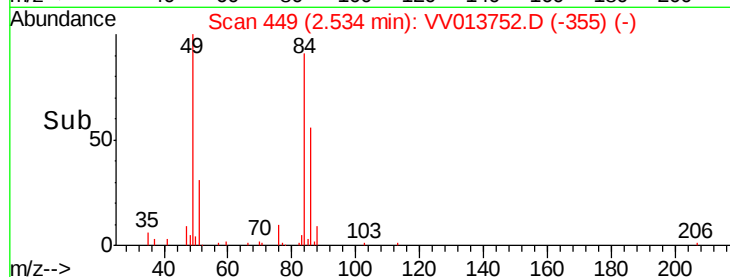
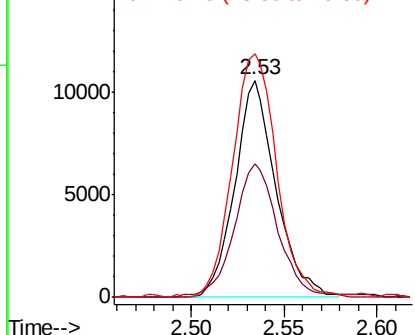
#16
Methylene chloride
Concen: 0.818 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013752.D
Acq: 22 Nov 2019 22:36

Instrument :
MSVOA_V
ClientSampleId :
B0AD7

Tgt Ion: 84 Resp: 16241
Ion Ratio Lower Upper
84 100
86 61.4 44.0 81.6
49 112.2 81.5 151.5

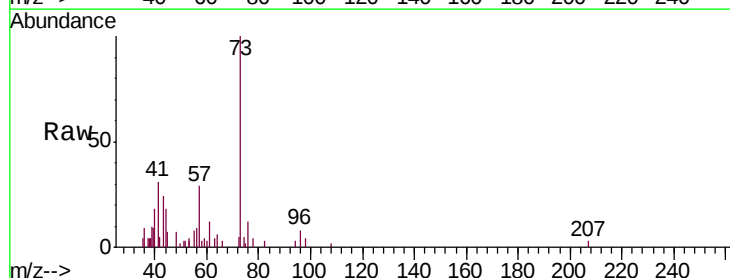


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

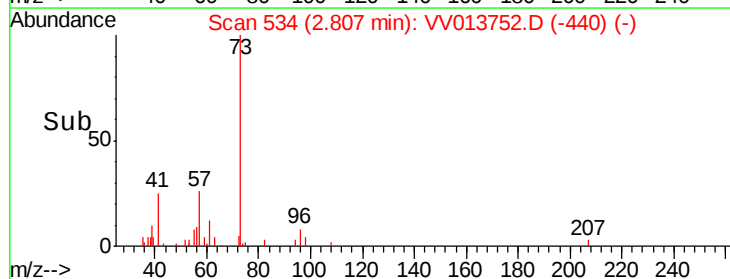
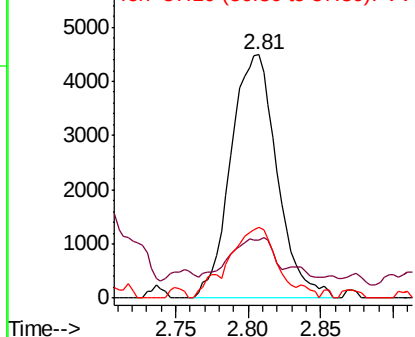


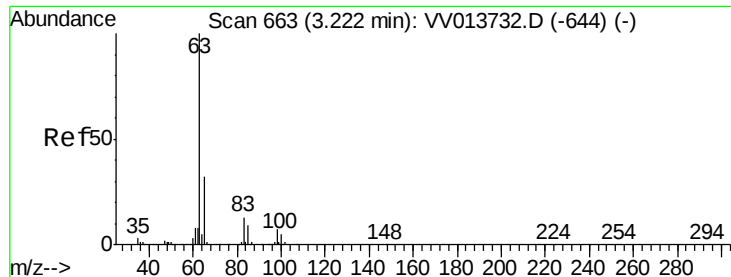
#17
Methyl tert-butyl Ether
Concen: 0.251 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV013752.D
Acq: 22 Nov 2019 22:36

Tgt Ion: 73 Resp: 9955
Ion Ratio Lower Upper
73 100
43 0.0 15.5 23.3#
57 30.9 17.5 26.3#



Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

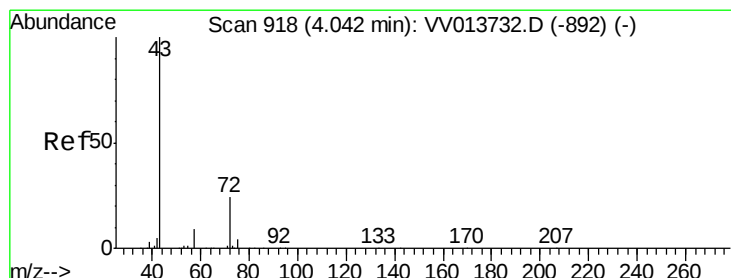
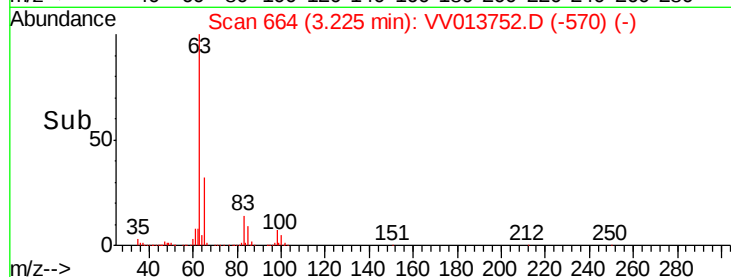
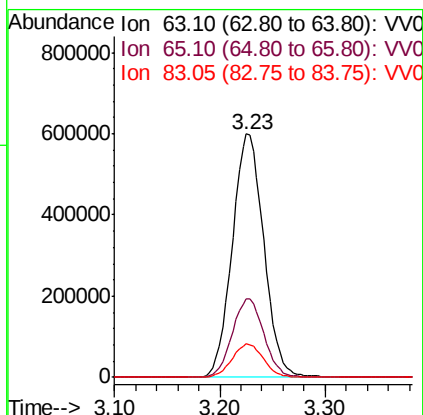
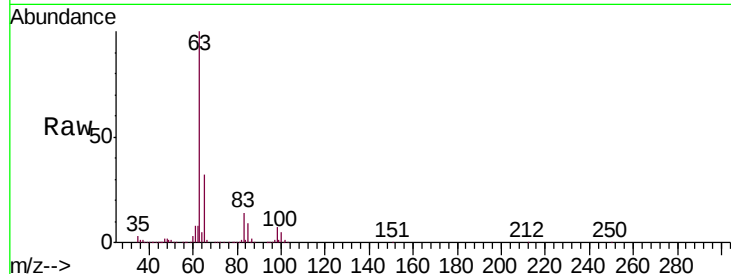




#19
 1,1-Dichloroethane
 Concen: 38.014 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV013752.D
 Acq: 22 Nov 2019 22:36

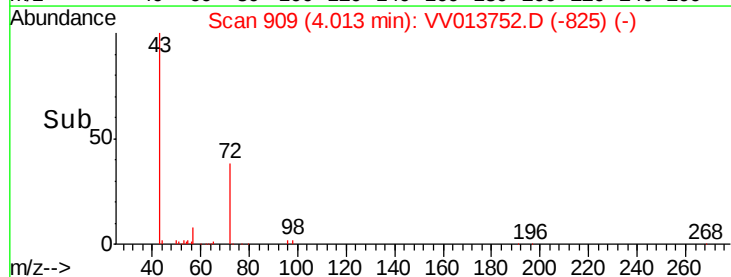
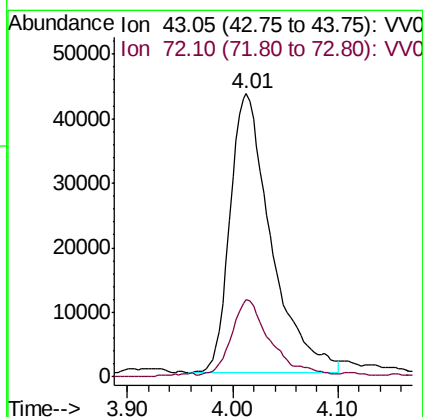
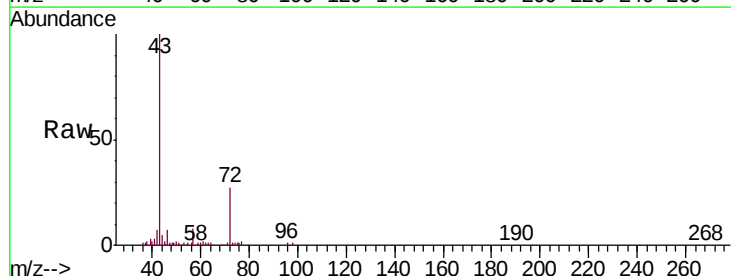
Instrument :
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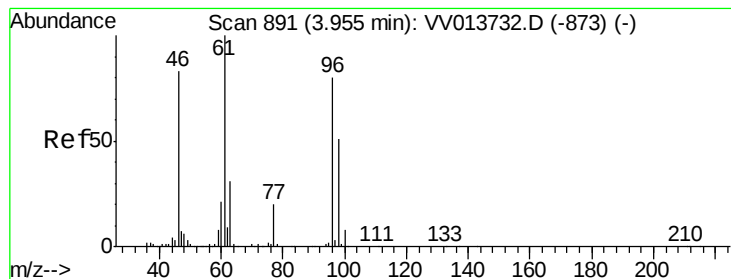
Tgt Ion: 63 Resp: 1242798
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.7 42.1
 83 13.6 9.2 17.2



#21
 2-Butanone
 Concen: 28.407 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.03 min
 Lab File: VV013752.D
 Acq: 22 Nov 2019 22:36

Tgt Ion: 43 Resp: 116536
 Ion Ratio Lower Upper
 43 100
 72 25.2 12.3 36.9





#22

cis-1,2-Dichloroethene

Concen: 4.250 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.01 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Instrument :

MSVOA_V

ClientSampleId :

B0AD7

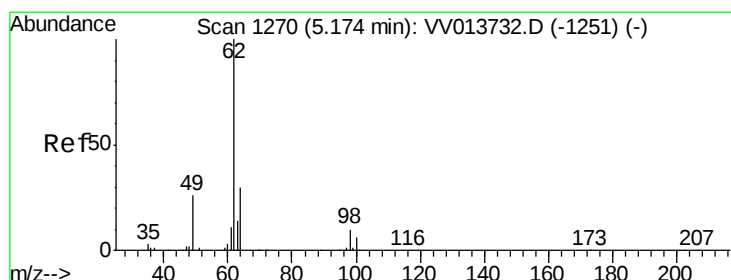
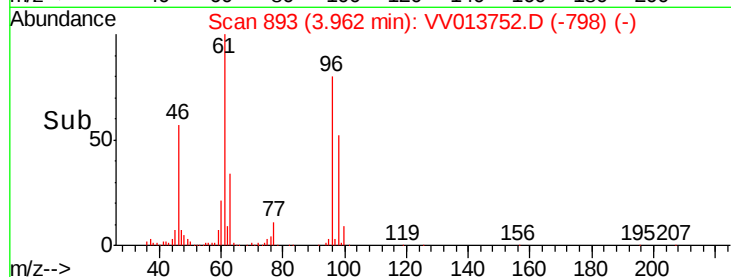
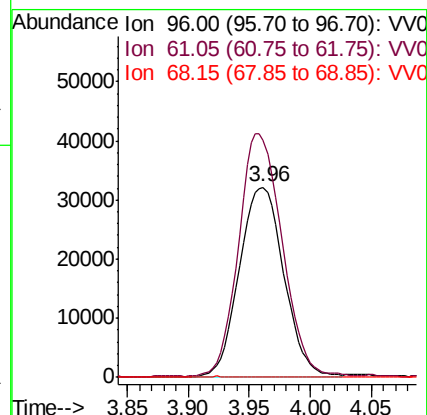
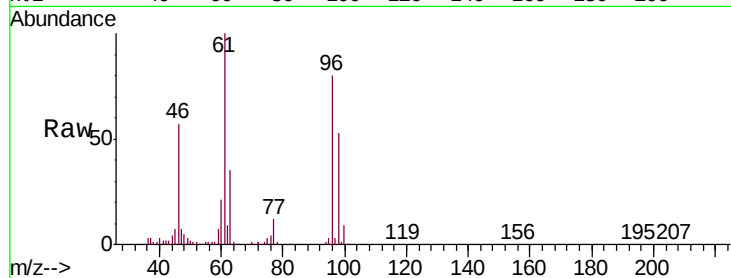
Tgt Ion: 96 Resp: 81615

Ion Ratio Lower Upper

96 100

61 124.9 86.1 159.9

68 0.5 0.0 0.0#



#27

1,2-Dichloroethane

Concen: 0.486 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV013752.D

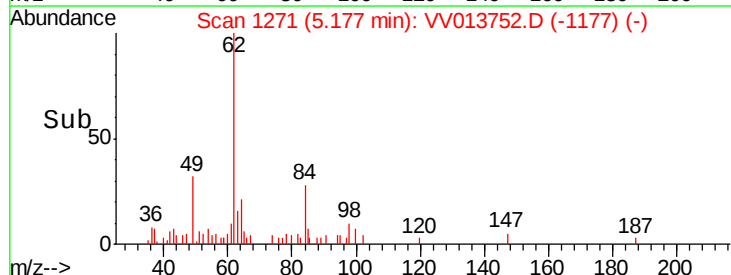
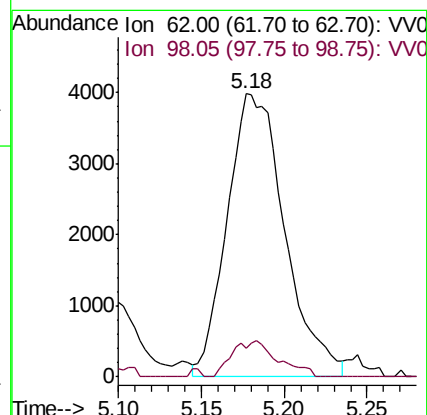
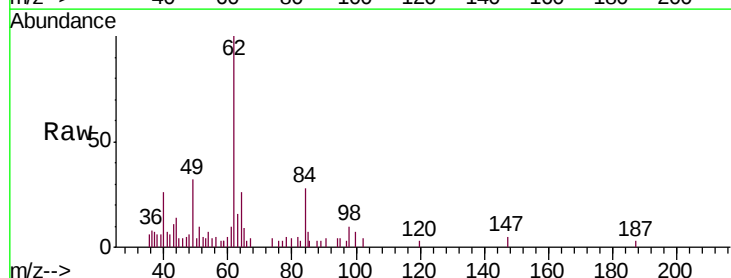
Acq: 22 Nov 2019 22:36

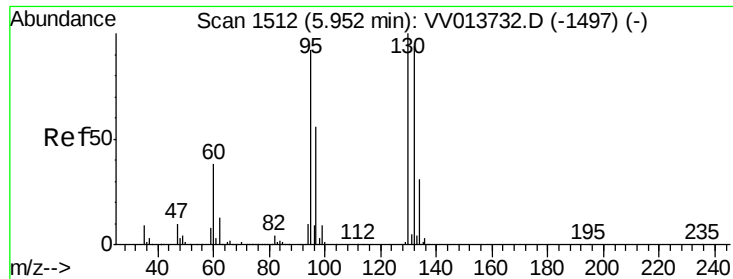
Tgt Ion: 62 Resp: 9646

Ion Ratio Lower Upper

62 100

98 10.2 8.2 12.2





#34

Trichloroethene

Concen: 25.809 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Instrument :

MSVOA_V

ClientSampleId :

B0AD7

Tgt Ion: 95 Resp: 513468

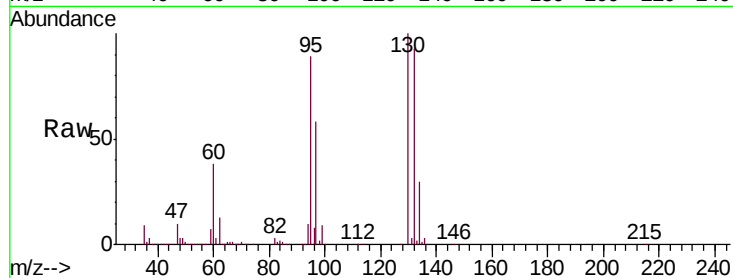
Ion Ratio Lower Upper

95 100

97 65.6 45.6 84.8

132 105.0 70.5 130.9

130 112.3 75.9 140.9

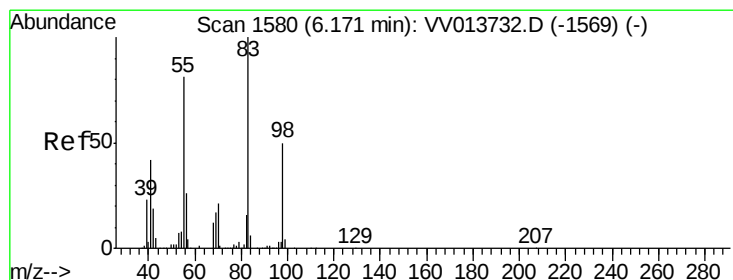
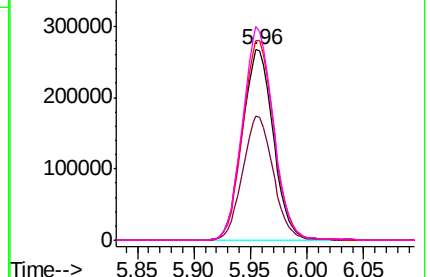
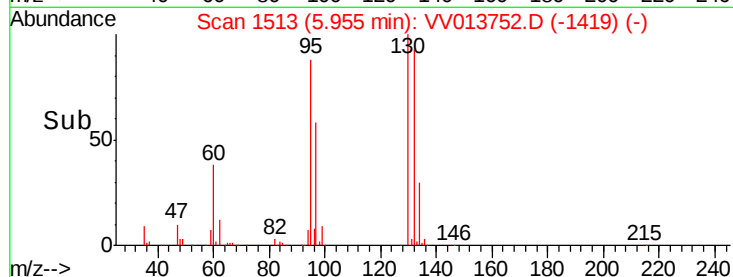


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 1.147 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.05 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

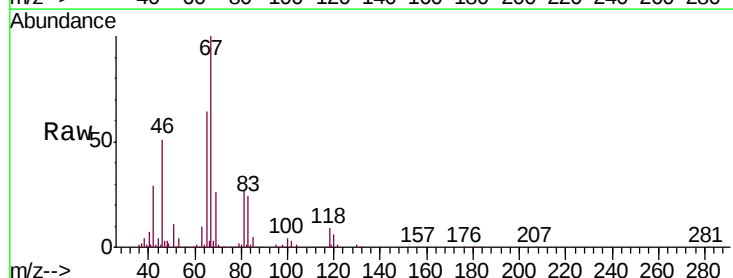
Tgt Ion: 83 Resp: 30457

Ion Ratio Lower Upper

83 100

55 1.3 60.3 90.5#

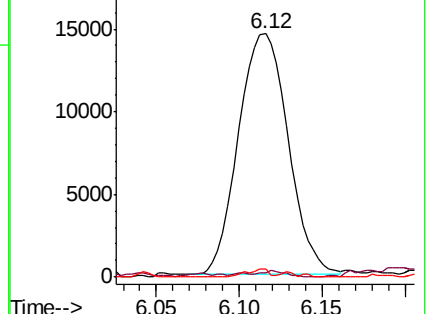
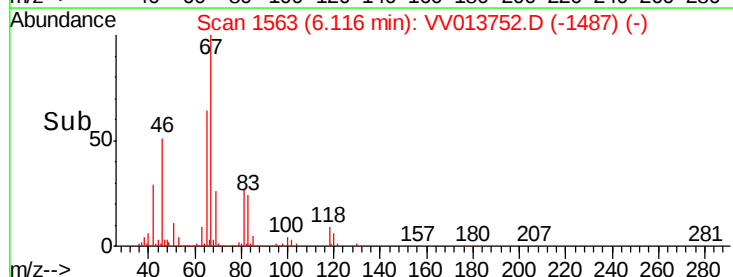
98 1.5 38.1 57.1#

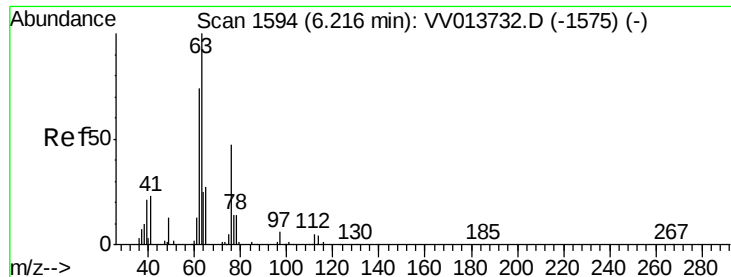


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.632 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Instrument :

MSVOA_V

ClientSampleId :

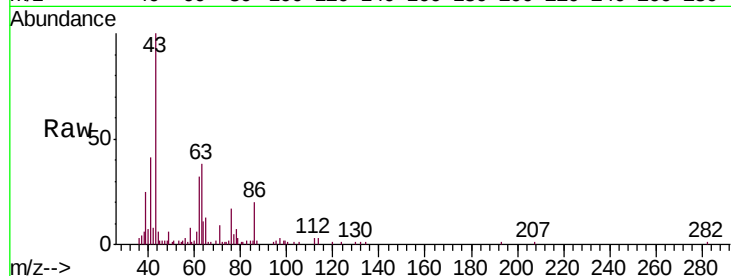
B0AD7

Tgt Ion: 63 Resp: 11721

Ion Ratio Lower Upper

63 100

112 4.5 4.4 6.6



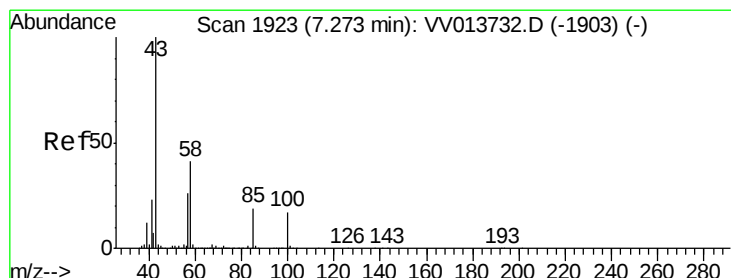
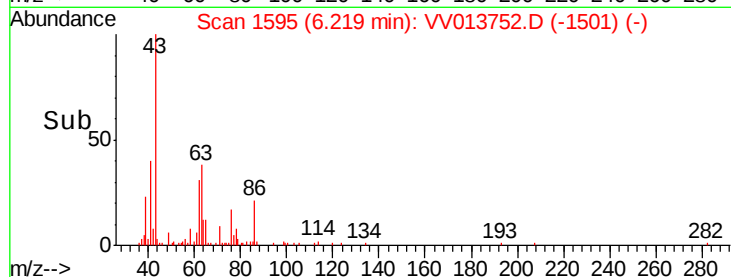
Abundance Ion 63.10 (62.80 to 63.80): VV013732.D (-1575) (-)

Ion 112.10 (111.80 to 112.80): VV013732.D (-1575) (-)

6.22

6.15 6.20 6.25 6.30

Time-->



#40

4-Methyl-2-pentanone

Concen: 5.365 ug/L

RT: 7.18 min Scan# 1893

Delta R.T. -0.10 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

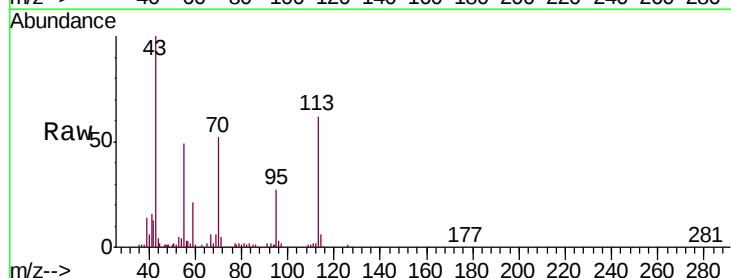
Tgt Ion: 43 Resp: 58023

Ion Ratio Lower Upper

43 100

58 1.6 32.3 48.5#

100 0.0 12.7 19.1#



Abundance Ion 43.05 (42.75 to 43.75): VV013732.D (-1903) (-)

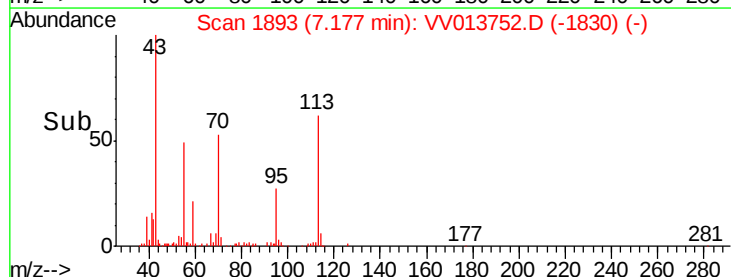
Ion 58.05 (57.75 to 58.75): VV013732.D (-1903) (-)

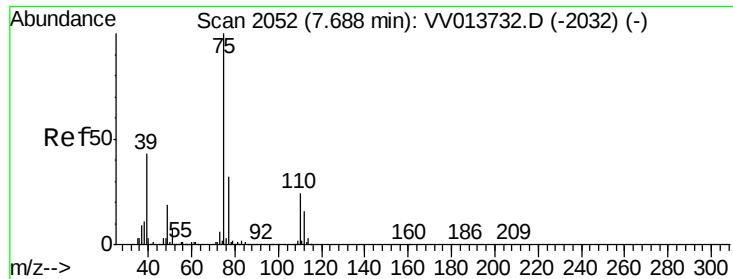
Ion 100.15 (99.85 to 100.85): VV013732.D (-1903) (-)

7.18

7.10 7.15 7.20 7.25

Time-->





#44

trans-1,3-Dichloropropene

Concen: 0.107 ug/L

RT: 7.66 min Scan# 2042

Delta R.T. -0.03 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Instrument :

MSVOA_V

ClientSampleId :

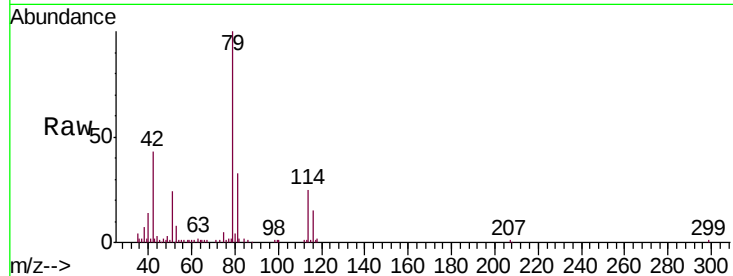
B0AD7

Tgt Ion: 75 Resp: 2206

Ion Ratio Lower Upper

75 100

77 30.7 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VV013752.D (-1959) (-)

Ion 77.05 (76.75 to 77.75): VV013752.D (-1959) (-)

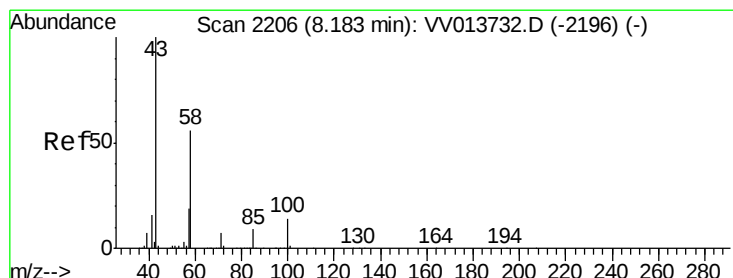
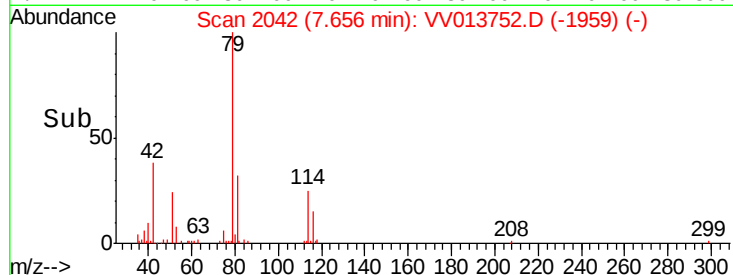
7.66

1000

500

0

Time-->



#48

2-Hexanone

Concen: 0.918 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VV013752.D

Acq: 22 Nov 2019 22:36

Tgt Ion: 43 Resp: 7086

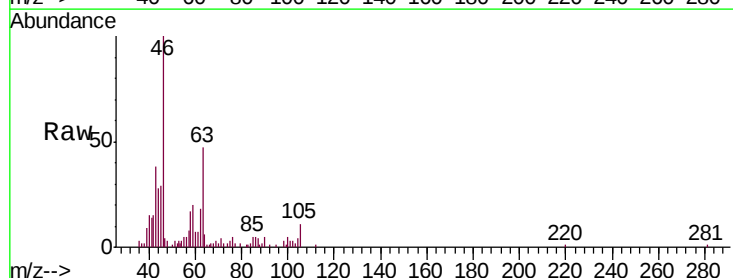
Ion Ratio Lower Upper

43 100

58 0.0 43.2 64.8#

57 0.0 15.4 23.2#

100 11.1 10.4 15.6



Abundance Ion 43.05 (42.75 to 43.75): VV013752.D (-2113) (-)

Ion 58.05 (57.75 to 58.75): VV013752.D (-2113) (-)

Ion 57.20 (56.90 to 57.90): VV013752.D (-2113) (-)

Ion 100.15 (99.85 to 100.85): VV013752.D (-2113) (-)

20000

15000

10000

5000

0

Time-->

