

Data File : VV013612.D
Acq On : 13 Nov 2019 19:17
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

Quant Time: Nov 14 06:14:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 14 06:01:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	372428	5.00	ug/L	-0.03
28) Chlorobenzene-d5	8.91	117	336085	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	187251	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.35	65	112125	4.69	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.80%
7) Chloroethane-d5	1.61	69	91572	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.00%
11) 1,1-Dichloroethene-d2	2.16	63	195506	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.40%
20) 2-Butanone-d5	4.03	46	274501	64.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	128.14%
24) Chloroform-d	4.43	84	204093	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.10	65	99829	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.10	84	383030	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.14	67	146967	5.29	ug/L	-0.03
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.80%
41) Toluene-d8	7.40	98	436628	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.40%
43) trans-1,3-Dichloropropene-	7.70	79	51268	4.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.20%
46) 2-Hexanone-d5	8.16	63	248717	60.33	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.66%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	110955	5.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	167015	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.18	85	169738	4.899 ug/L	99
3) Chloromethane	1.29	50	151002	4.828 ug/L	99
5) Vinyl chloride	1.36	62	143975	4.728 ug/L	96
6) Bromomethane	1.57	94	79577	4.736 ug/L	98
8) Chloroethane	1.63	64	79506	4.819 ug/L	100
9) Trichlorofluoromethane	1.80	101	199754	4.869 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.17	101	108470	4.656 ug/L	96
12) 1,1-Dichloroethene	2.17	96	106609	4.924 ug/L	95
13) Acetone	2.28	43	158513	57.223 ug/L	71
14) Carbon disulfide	2.35	76	290876	4.647 ug/L	100
15) Methyl Acetate	2.52	43	47893	6.004 ug/L #	88
16) Methylene chloride	2.57	84	115417	4.906 ug/L	99
17) Methyl tert-butyl Ether	2.86	73	267975	5.288 ug/L	98
18) trans-1,2-Dichloroethene	2.83	96	115763	4.996 ug/L	97
19) 1,1-Dichloroethane	3.26	63	202591	4.888 ug/L	98
21) 2-Butanone	4.12	43	306764	59.826 ug/L	76
22) cis-1,2-Dichloroethene	3.99	96	128503	5.054 ug/L #	99

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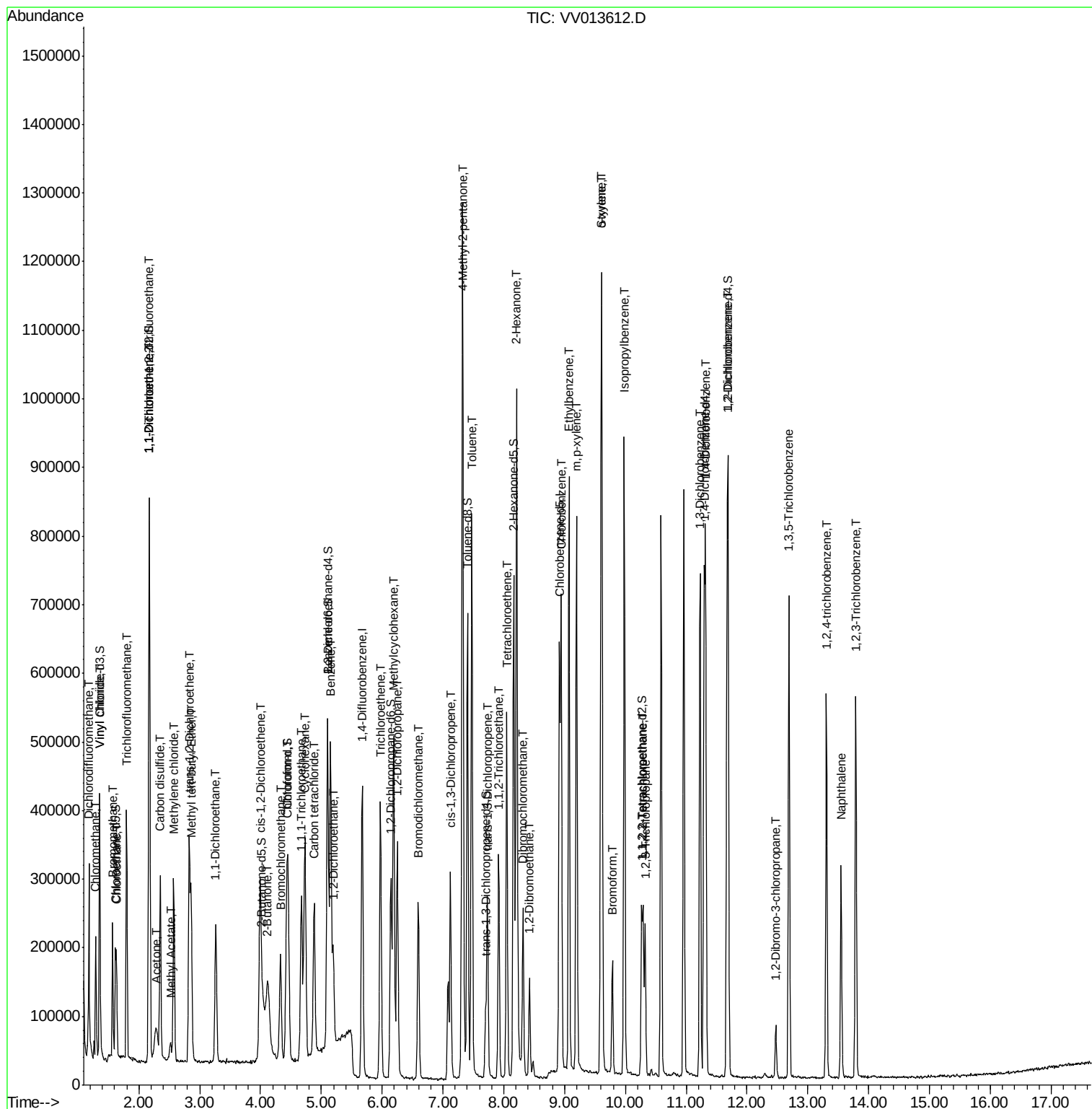
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.33	128	60931	5.401	ug/L	93
25) Chloroform	4.45	83	229269	4.419	ug/L	97
27) 1,2-Dichloroethane	5.20	62	127710	4.477	ug/L #	94
29) 1,1,1-Trichloroethane	4.67	97	186873	5.154	ug/L	100
30) Cyclohexane	4.73	56	179564	4.986	ug/L	97
31) Carbon tetrachloride	4.88	117	162693	5.002	ug/L	99
33) Benzene	5.15	78	443353	4.515	ug/L	100
34) Trichloroethene	5.97	95	141416	5.131	ug/L	97
35) Methylcyclohexane	6.19	83	188200	4.699	ug/L	99
37) 1,2-Dichloropropane	6.25	63	134201	5.293	ug/L #	97
38) Bromodichloromethane	6.59	83	174400	5.028	ug/L	96
39) cis-1,3-Dichloropropene	7.12	75	173298	4.943	ug/L	97
40) 4-Methyl-2-pentanone	7.32	43	878051	61.925	ug/L	100
42) Toluene	7.47	91	568654	5.333	ug/L	98
44) trans-1,3-Dichloropropene	7.73	75	142730	5.321	ug/L	98
45) 1,1,2-Trichloroethane	7.92	97	99067	5.450	ug/L	98
47) Tetrachloroethene	8.05	164	125621	5.011	ug/L	97
48) 2-Hexanone	8.21	43	666546	66.816	ug/L	99
49) Dibromochloromethane	8.32	129	122170	5.351	ug/L	99
50) 1,2-Dibromoethane	8.42	107	93538	5.633	ug/L	94
51) Chlorobenzene	8.94	112	362474	5.187	ug/L	99
52) Ethylbenzene	9.07	91	558742	5.000	ug/L	98
53) m,p-xylene	9.20	106	227755	5.350	ug/L	98
54) o-xylene	9.60	106	206929	5.202	ug/L	97
55) Styrene	9.61	104	389406	5.618	ug/L	98
56) Isopropylbenzene	9.98	105	563220	5.275	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	110751	5.551	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	89339	5.784	ug/L	98
61) Bromoform	9.78	173	76902	5.470	ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	309468	5.121	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	307863	4.976	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	293434	5.252	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	17632	5.158	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	229887	4.690	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	174923	4.616	ug/L	99
69) Naphthalene	13.55	128	241075	5.038	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	178823	5.075	ug/L	98

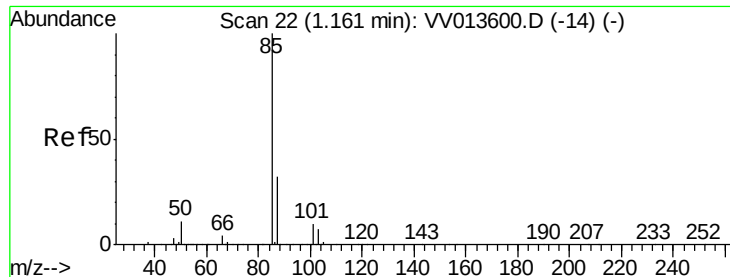
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.899 ug/L

RT: 1.18 min Scan# 27

Delta R.T. 0.02 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

Instrument :

MSVOA_V

ClientSampleId :

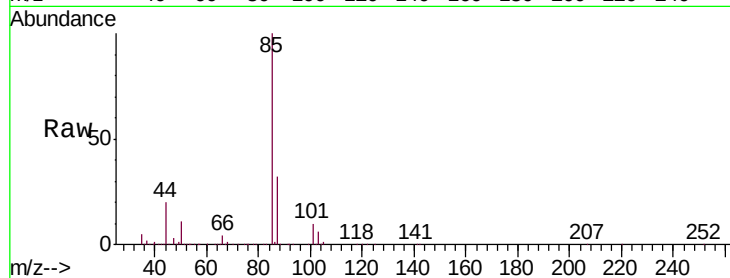
VSTD00557

Tgt Ion: 85 Resp: 169738

Ion Ratio Lower Upper

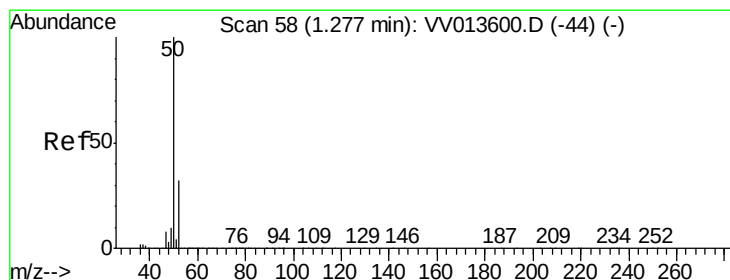
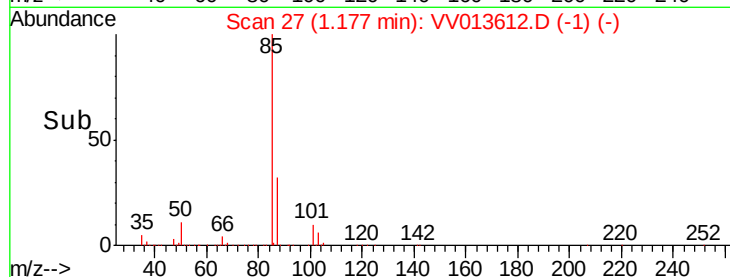
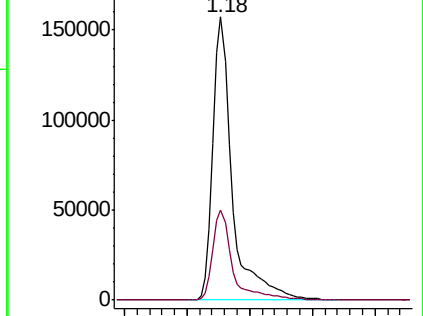
85 100

87 32.3 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.828 ug/L

RT: 1.29 min Scan# 61

Delta R.T. 0.01 min

Lab File: VV013612.D

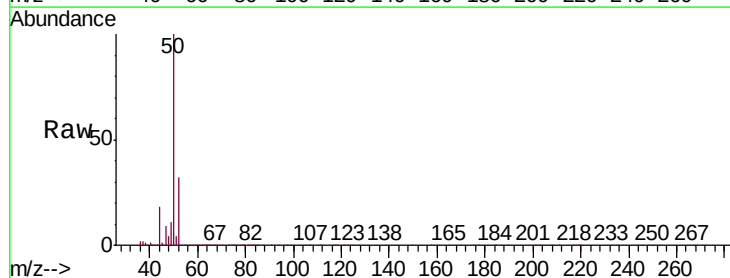
Acq: 13 Nov 2019 19:17

Tgt Ion: 50 Resp: 151002

Ion Ratio Lower Upper

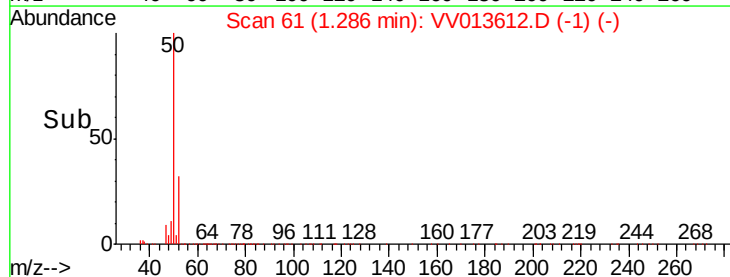
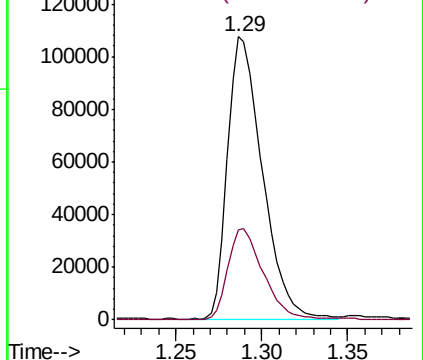
50 100

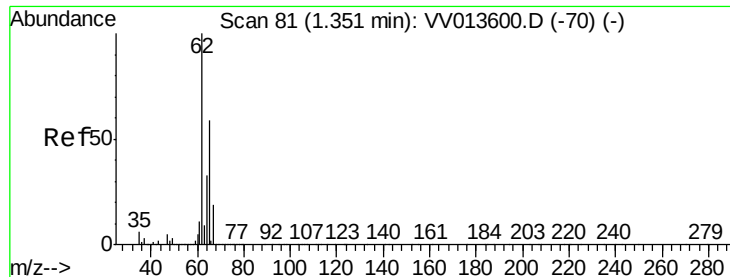
52 31.7 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.728 ug/L

RT: 1.36 min Scan# 83

Delta R.T. 0.01 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

Instrument :

MSVOA_V

ClientSampleId :

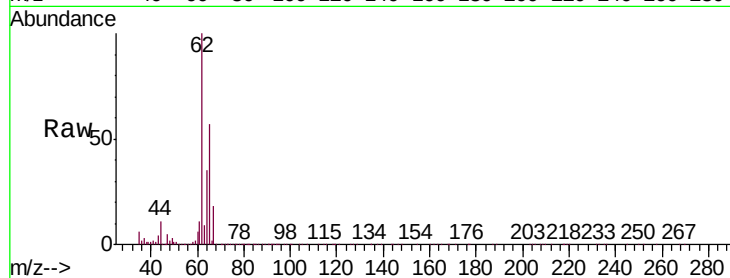
VSTD00557

Tgt Ion: 62 Resp: 143975

Ion Ratio Lower Upper

62 100

64 35.1 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.36

150000

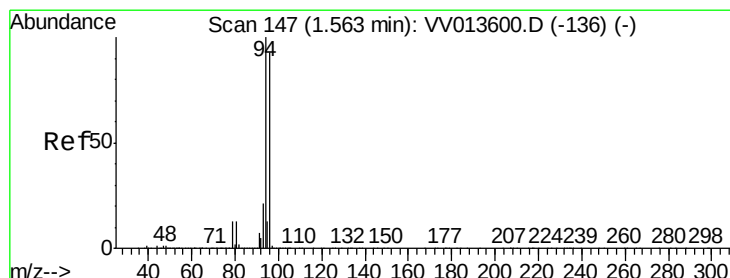
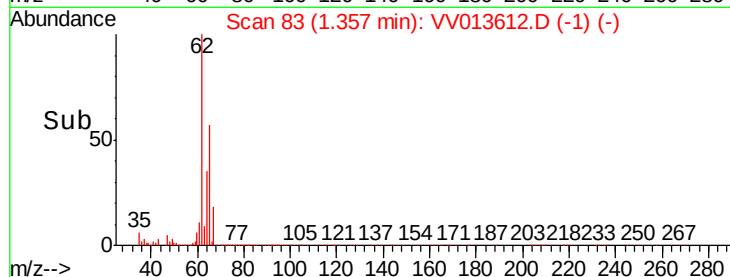
100000

50000

0

1.30 1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 4.736 ug/L

RT: 1.57 min Scan# 149

Delta R.T. 0.01 min

Lab File: VV013612.D

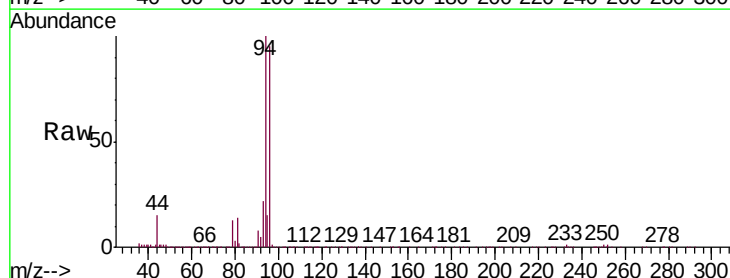
Acq: 13 Nov 2019 19:17

Tgt Ion: 94 Resp: 79577

Ion Ratio Lower Upper

94 100

96 94.7 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.57

80000

60000

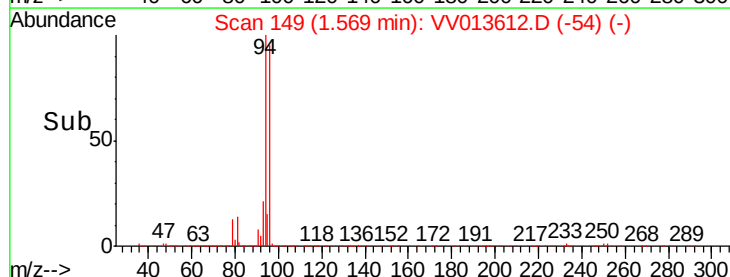
40000

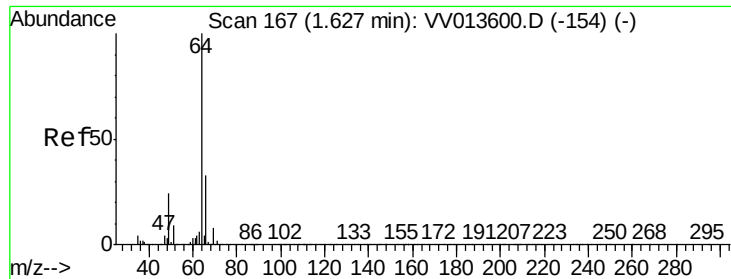
20000

0

1.55 1.60

Time-->





#8

Chloroethane

Concen: 4.819 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

Instrument :

MSVOA_V

ClientSampleId :

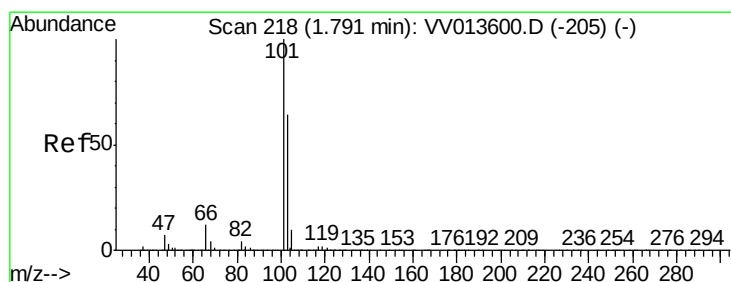
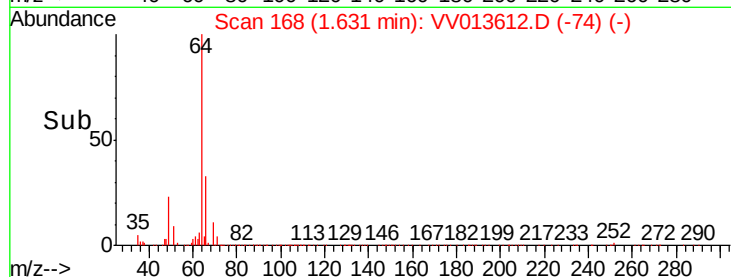
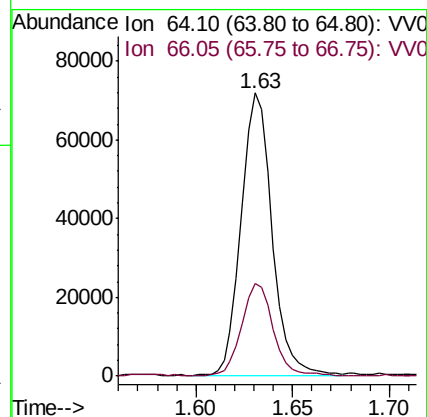
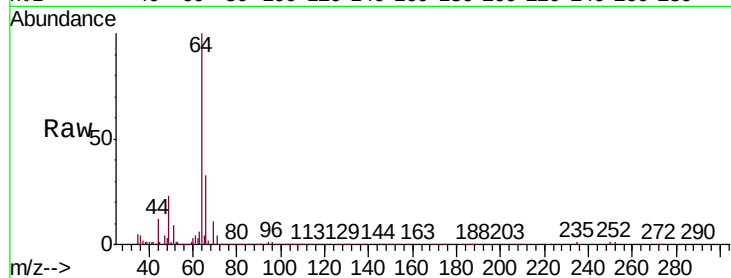
VSTD00557

Tgt Ion: 64 Resp: 79506

Ion Ratio Lower Upper

64 100

66 32.7 23.0 42.8



#9

Trichlorofluoromethane

Concen: 4.869 ug/L

RT: 1.80 min Scan# 220

Delta R.T. 0.01 min

Lab File: VV013612.D

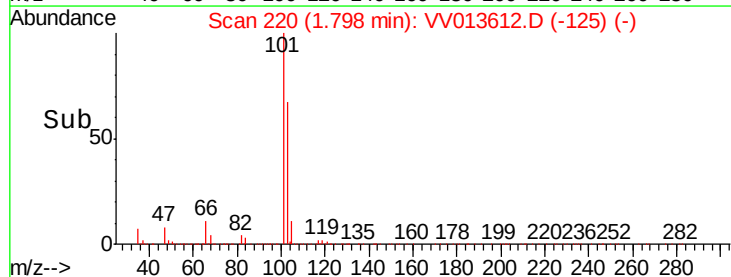
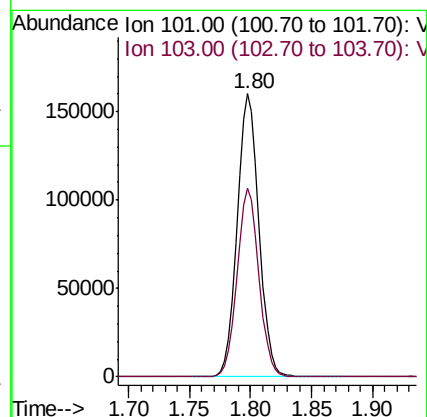
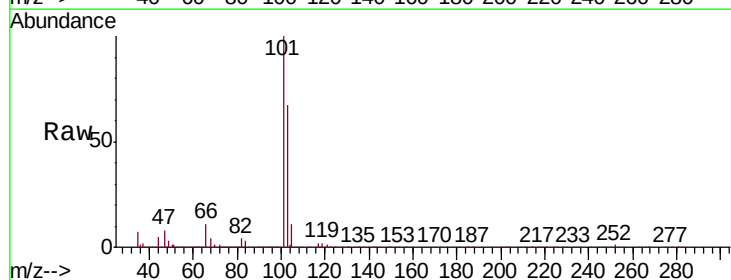
Acq: 13 Nov 2019 19:17

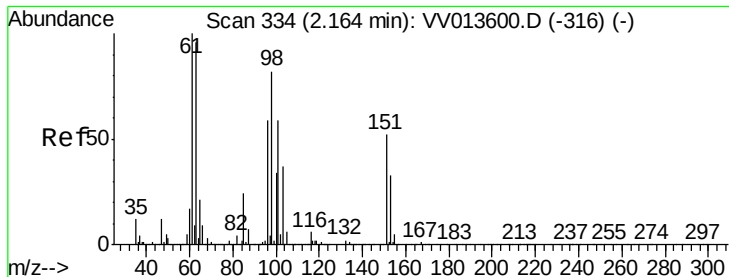
Tgt Ion: 101 Resp: 199754

Ion Ratio Lower Upper

101 100

103 66.3 52.6 78.8





#10

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

Concen: 4.656 ug/L

RT: 2.17 min Scan# 336

Delta R.T. 0.01 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

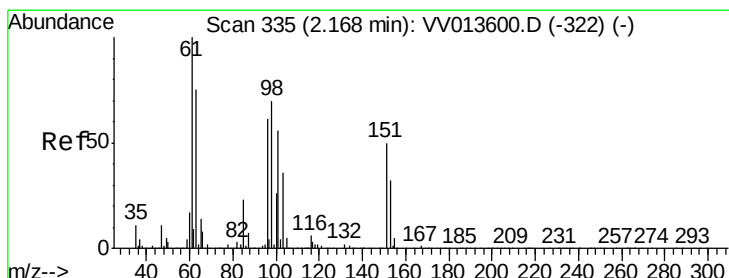
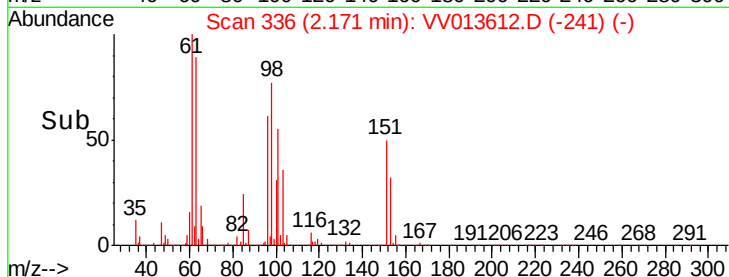
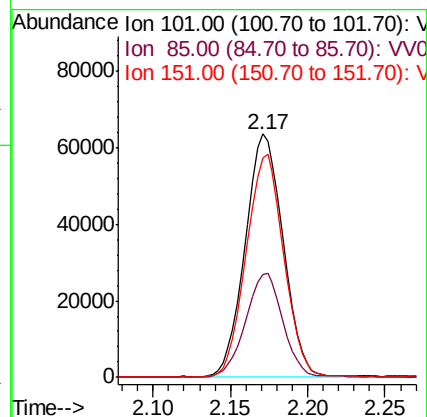
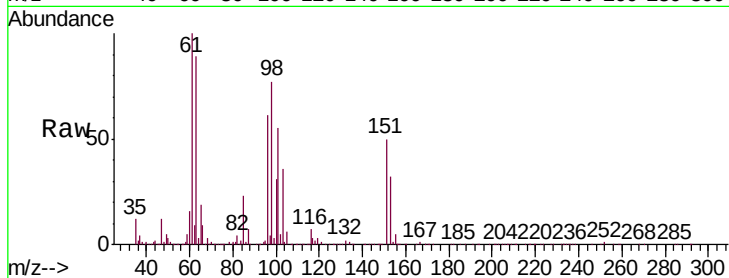
Tgt Ion: 101 Resp: 108470

Ion Ratio Lower Upper

101 100

85 42.4 33.1 49.7

151 91.8 69.5 104.3



#12

1,1-Dichloroethene

Concen: 4.924 ug/L

RT: 2.17 min Scan# 337

Delta R.T. 0.01 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

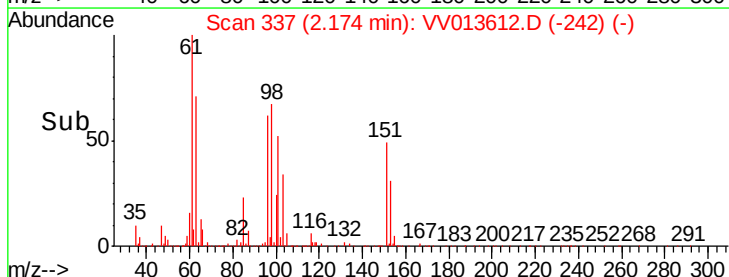
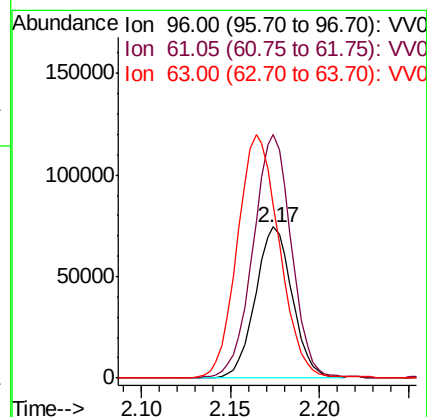
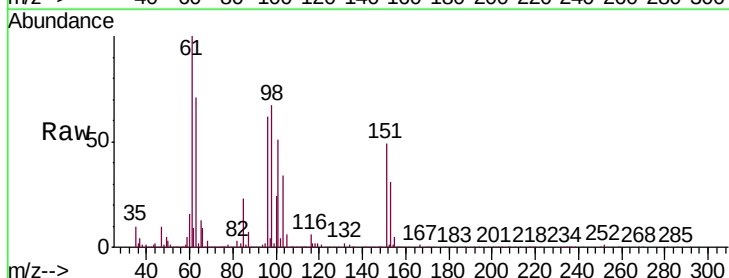
Tgt Ion: 96 Resp: 106609

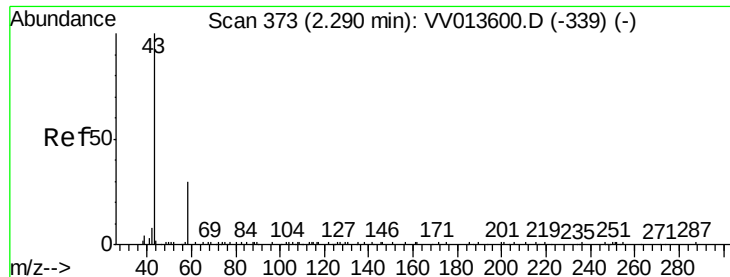
Ion Ratio Lower Upper

96 100

61 161.3 115.6 214.6

63 115.2 87.2 162.0





#13

Acetone

Concen: 57.223 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.01 min

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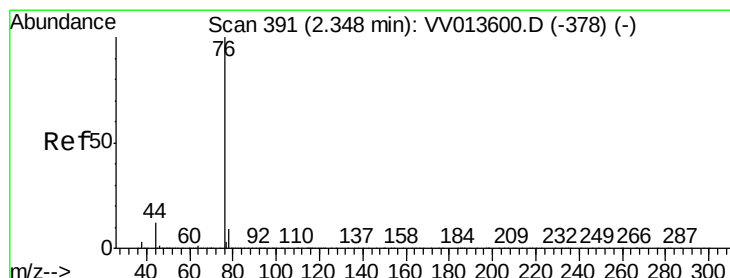
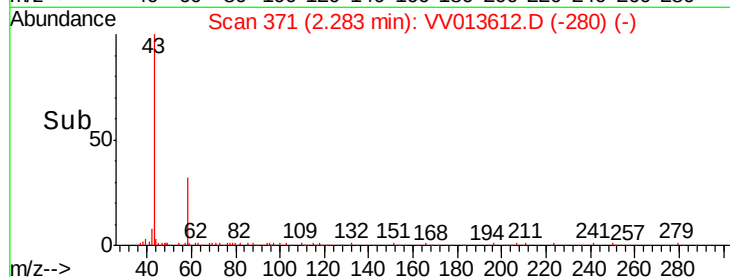
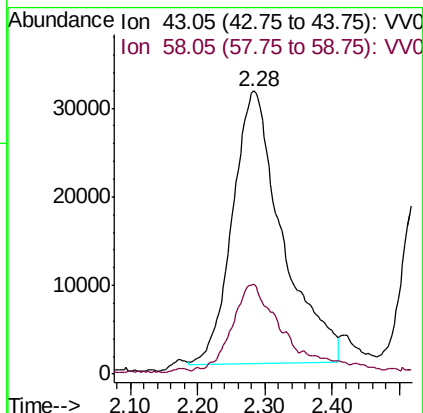
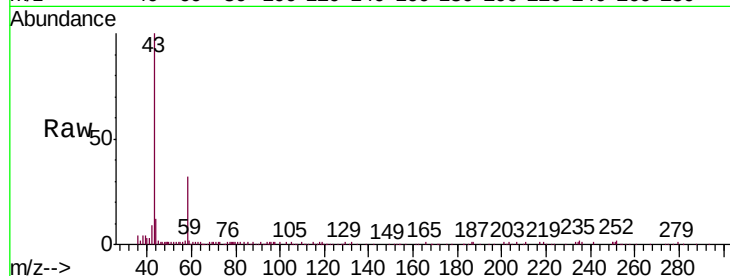
VSTD00557

Tgt Ion: 43 Resp: 158513

Ion Ratio Lower Upper

43 100

58 26.2 0.0 28.8



#14

Carbon disulfide

Concen: 4.647 ug/L

RT: 2.35 min Scan# 392

Delta R.T. 0.00 min

Lab File: VV013612.D

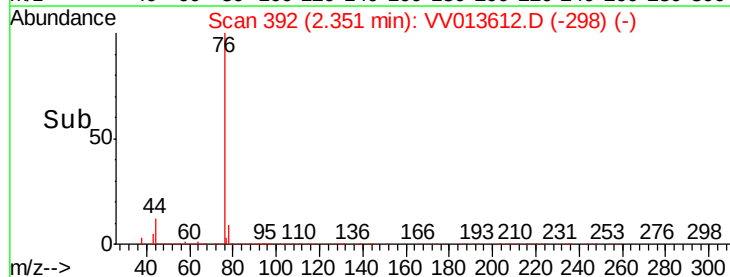
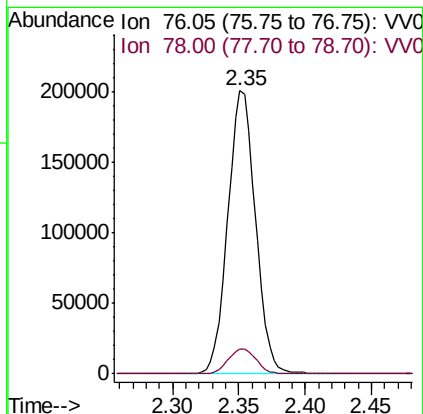
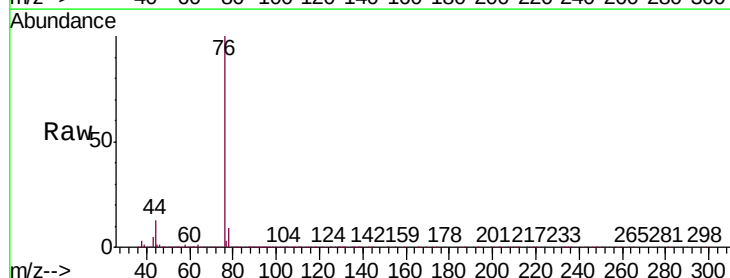
Acq: 13 Nov 2019 19:17

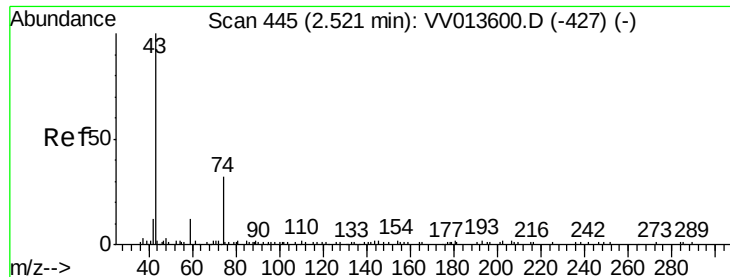
Tgt Ion: 76 Resp: 290876

Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.6





#15

Methyl Acetate

Concen: 6.004 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.00 min

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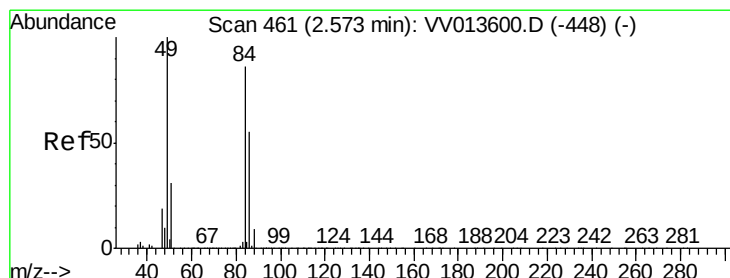
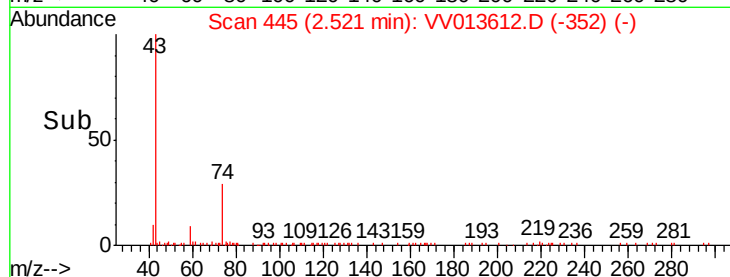
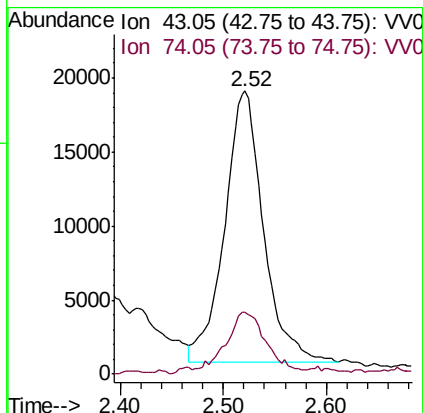
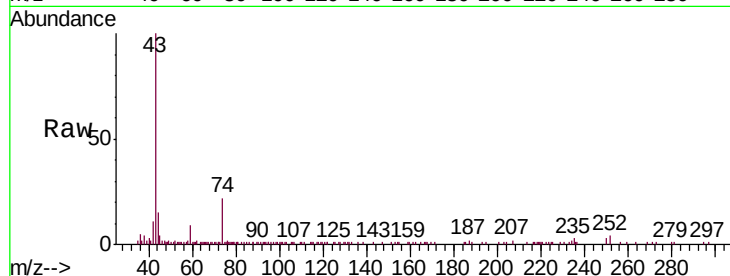
VSTD00557

Tgt Ion: 43 Resp: 47893

Ion Ratio Lower Upper

43 100

74 21.3 21.9 32.9#



#16

Methylene chloride

Concen: 4.906 ug/L

RT: 2.57 min Scan# 461

Delta R.T. -0.00 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

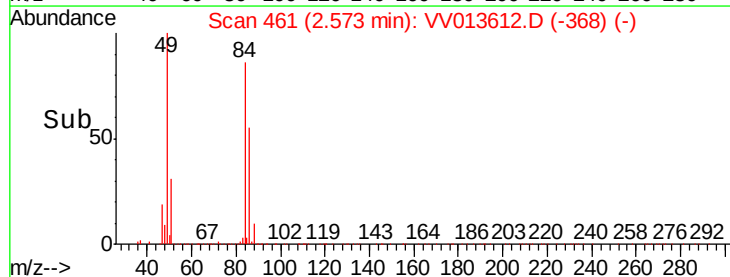
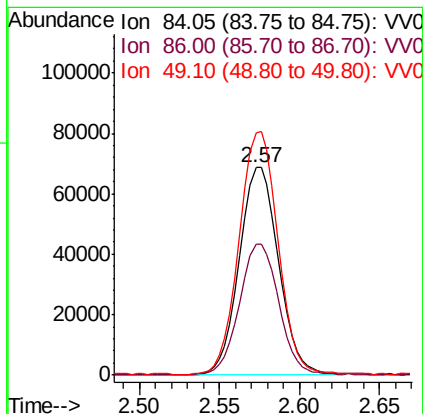
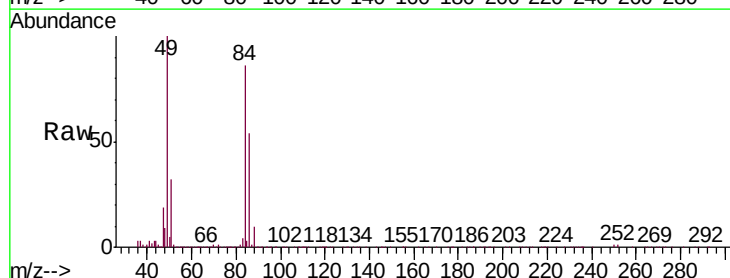
Tgt Ion: 84 Resp: 115417

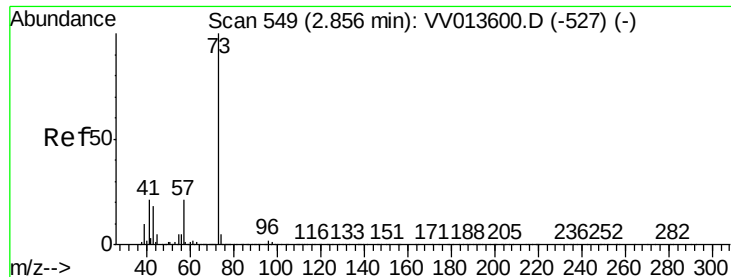
Ion Ratio Lower Upper

84 100

86 63.4 45.1 83.9

49 116.5 81.4 151.2



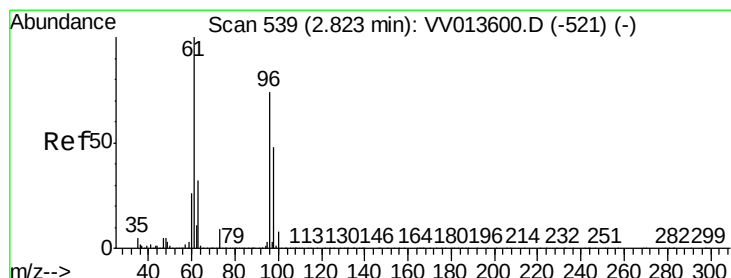
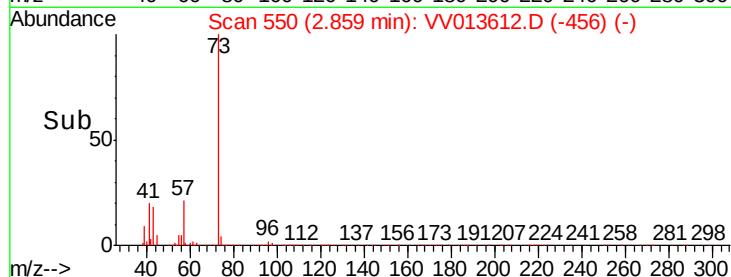
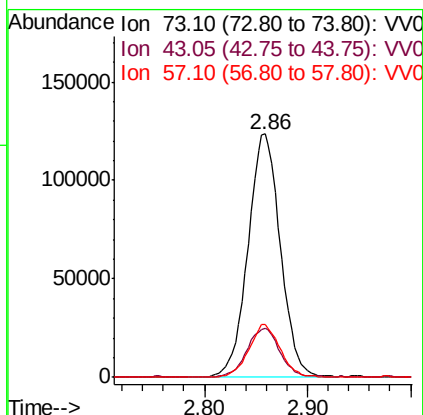
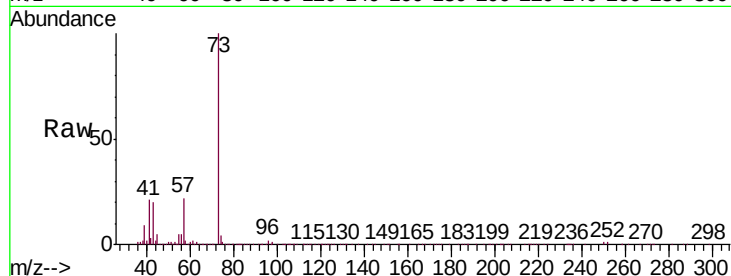


#17

Methyl tert-butyl Ether
 Concen: 5.288 ug/L
 RT: 2.86 min Scan# 550
 Delta R.T. 0.00 min
 Lab File: VV013612.D
 Acq: 13 Nov 2019 19:17

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

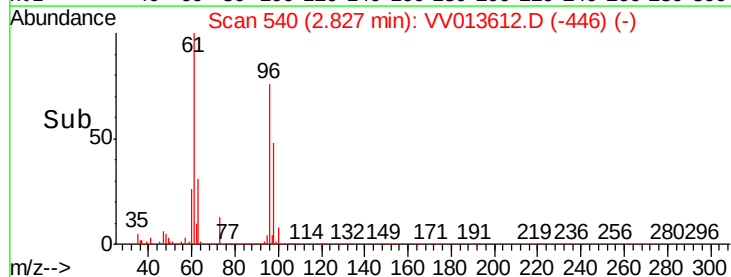
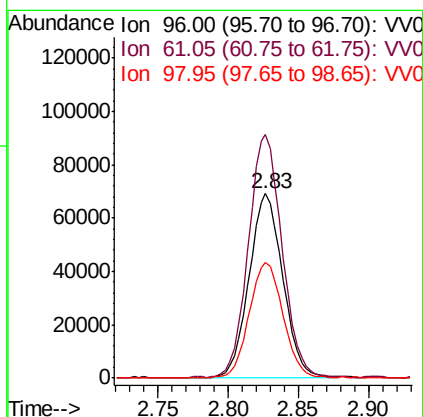
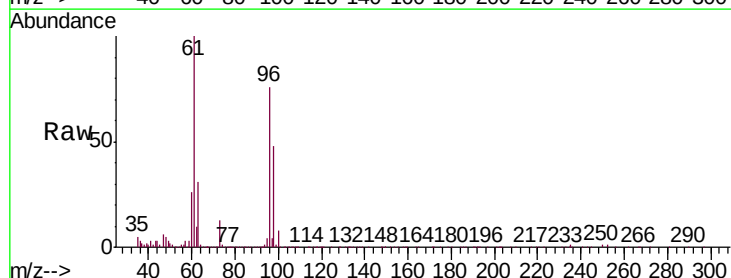
Tgt Ion:	73	Resp:	267975
Ion	Ratio	Lower	Upper
73	100		
43	19.8	14.8	22.2
57	20.7	16.3	24.5

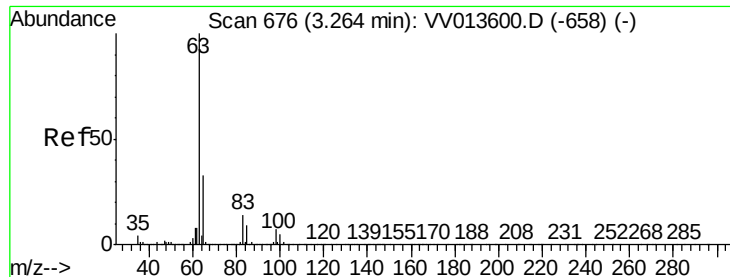


#18

trans-1,2-Dichloroethene
 Concen: 4.996 ug/L
 RT: 2.83 min Scan# 540
 Delta R.T. 0.00 min
 Lab File: VV013612.D
 Acq: 13 Nov 2019 19:17

Tgt Ion:	96	Resp:	115763
Ion	Ratio	Lower	Upper
96	100		
61	132.2	95.2	176.8
98	63.1	46.1	85.7

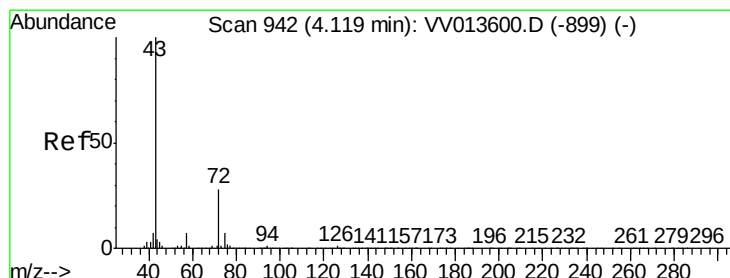
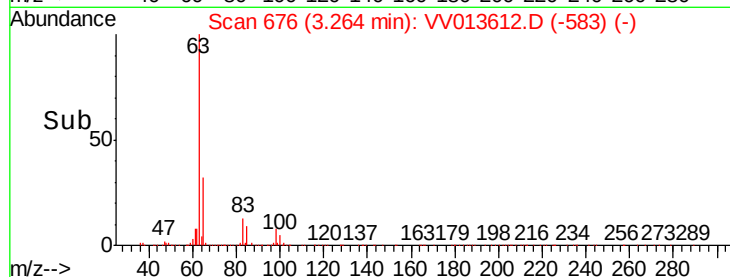
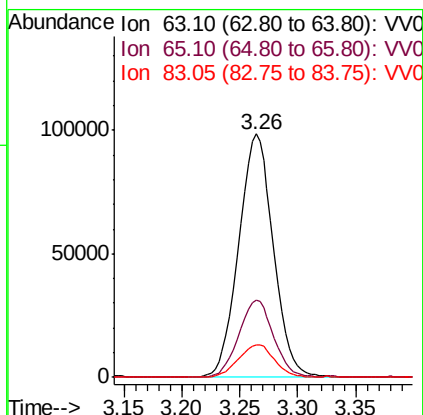
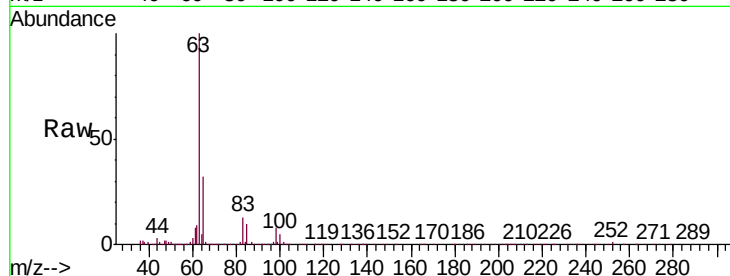




#19
 1,1-Dichloroethane
 Concen: 4.888 ug/L
 RT: 3.26 min Scan# 676
 Delta R.T. -0.00 min
 Lab File: VV013612.D
 Acq: 13 Nov 2019 19:17

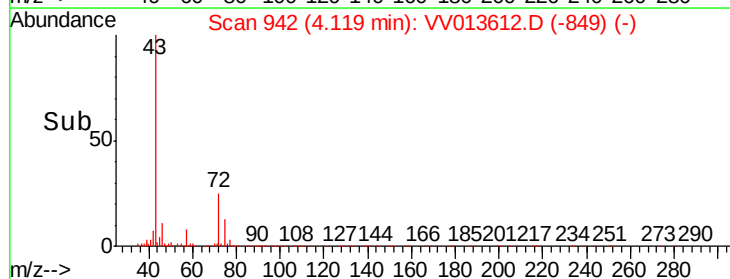
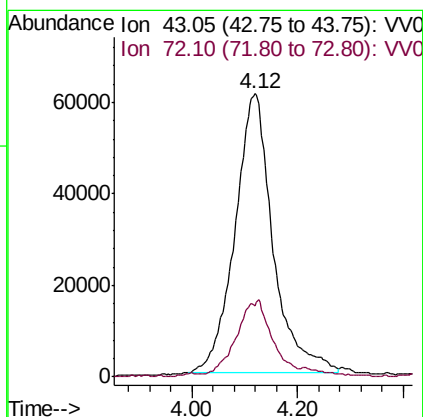
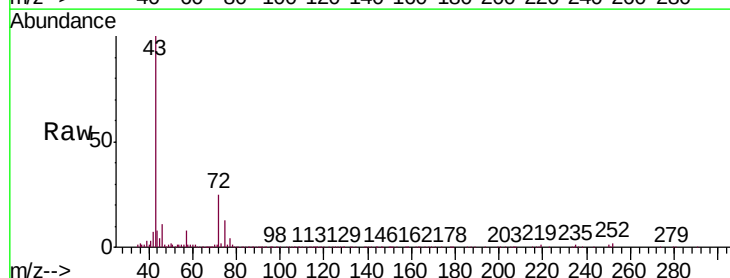
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

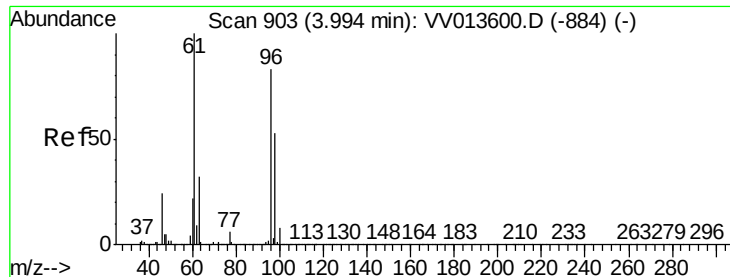
Tgt Ion:	63	Resp:	202591
Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.4	43.4
83	13.4	9.9	18.3



#21
 2-Butanone
 Concen: 59.826 ug/L
 RT: 4.12 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VV013612.D
 Acq: 13 Nov 2019 19:17

Tgt Ion:	43	Resp:	306764
Ion	Ratio	Lower	Upper
43	100		
72	12.7	12.3	36.9



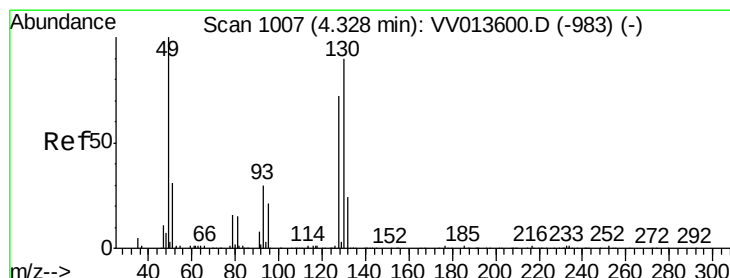
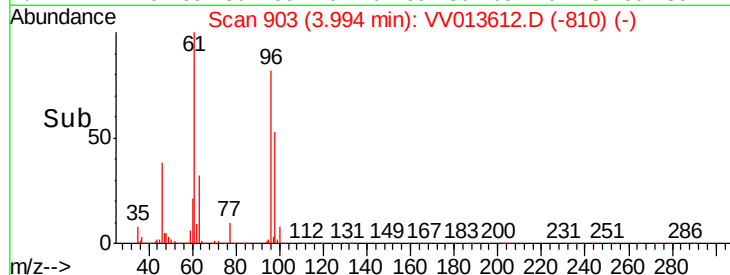
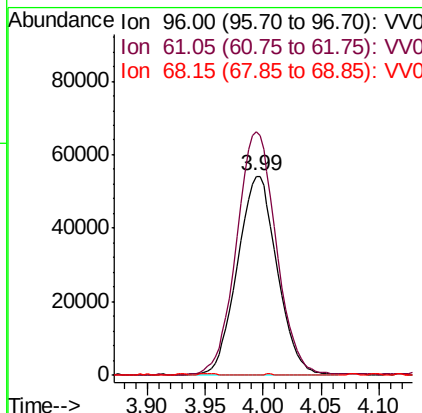
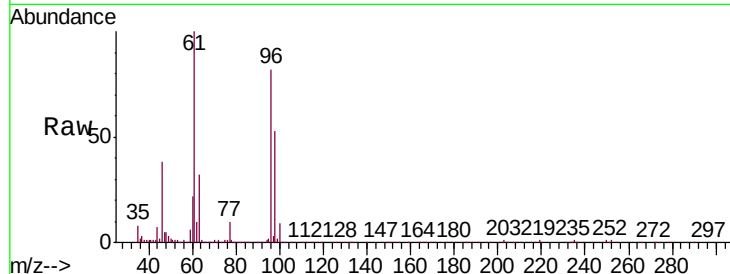


#22

cis-1,2-Dichloroethene
Concen: 5.054 ug/L
RT: 3.99 min Scan# 903
Delta R.T. -0.00 min
Lab File: VV013612.D
Acq: 13 Nov 2019 19:17

Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

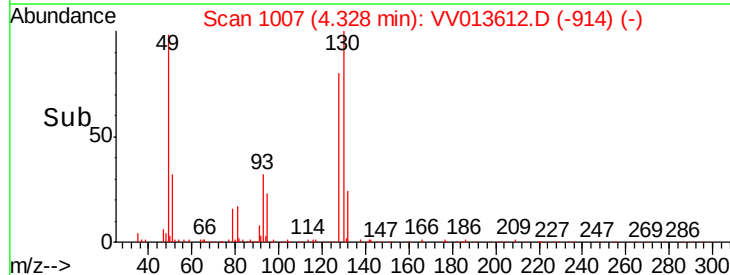
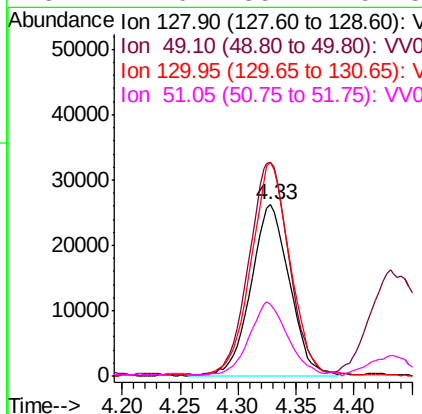
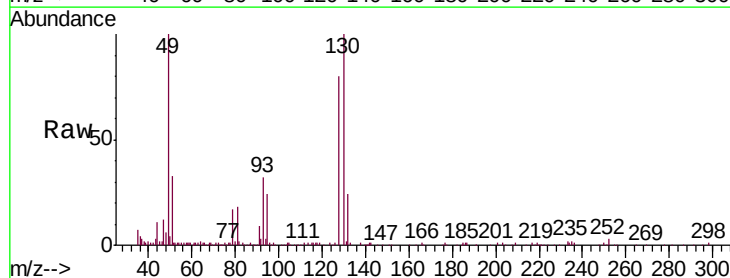
Tgt Ion: 96 Resp: 128503
Ion Ratio Lower Upper
96 100
61 122.2 84.7 157.3
68 0.2 0.3 0.7#

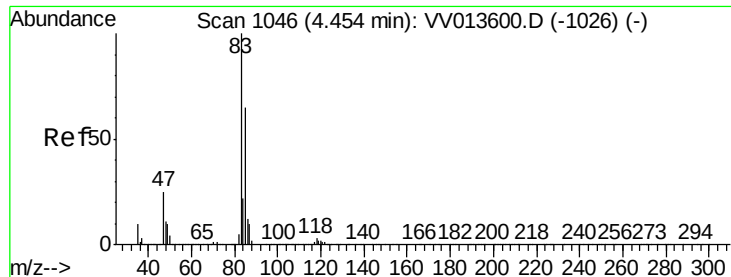


#23

Bromochloromethane
Concen: 5.401 ug/L
RT: 4.33 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VV013612.D
Acq: 13 Nov 2019 19:17

Tgt Ion: 128 Resp: 60931
Ion Ratio Lower Upper
128 100
49 124.7 98.4 182.8
130 124.7 88.4 164.2
51 41.6 35.2 52.8





#25

Chloroform

Concen: 4.419 ug/L

RT: 4.45 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

Instrument :

MSVOA_V

ClientSampleId :

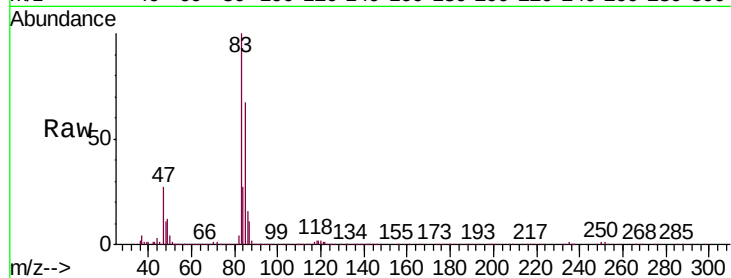
VSTD00557

Tgt Ion: 83 Resp: 229269

Ion Ratio Lower Upper

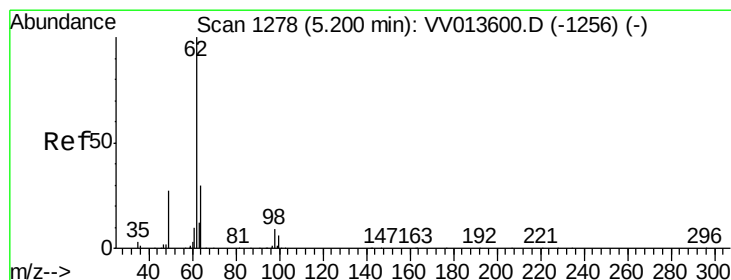
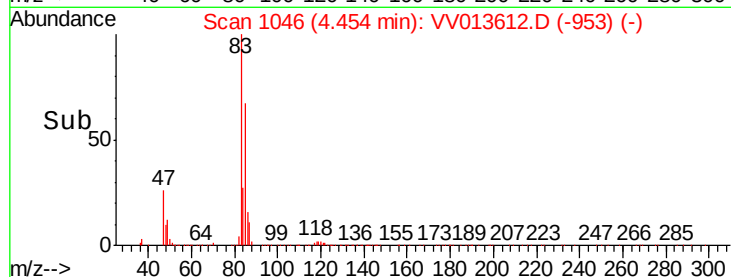
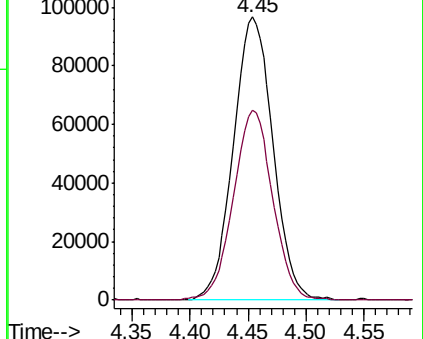
83 100

85 67.2 45.5 84.5



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 4.477 ug/L

RT: 5.20 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VV013612.D

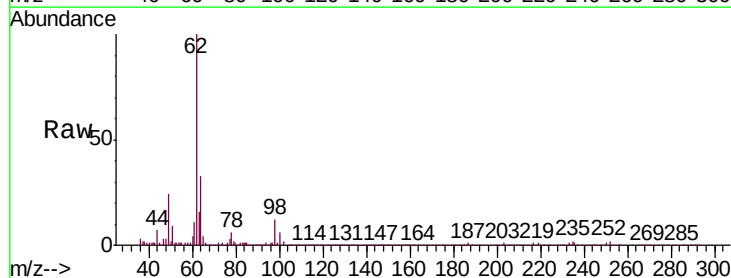
Acq: 13 Nov 2019 19:17

Tgt Ion: 62 Resp: 127710

Ion Ratio Lower Upper

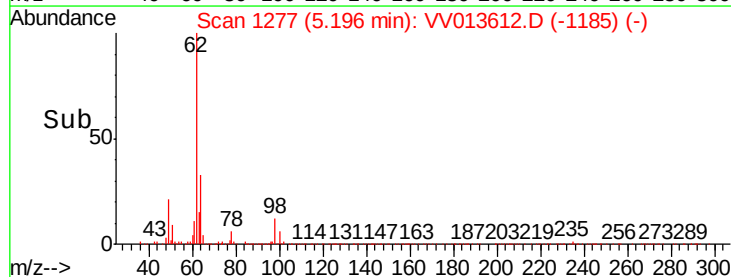
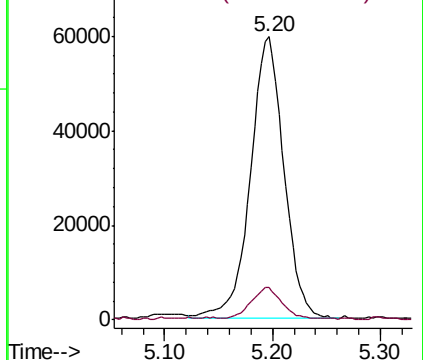
62 100

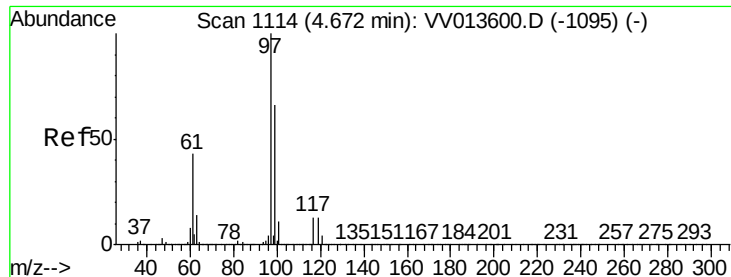
98 11.5 7.4 11.2#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0





#29

1,1,1-Trichloroethane

Concen: 5.154 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

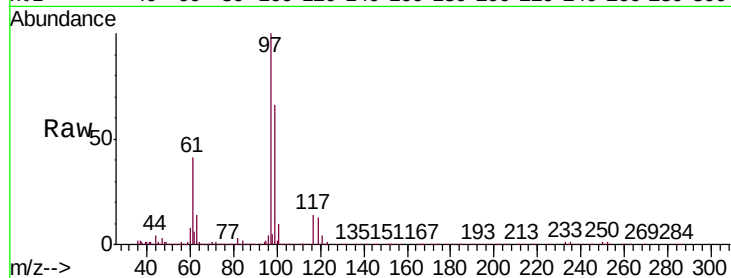
Tgt Ion: 97 Resp: 186873

Ion Ratio Lower Upper

97 100

99 65.3 52.6 78.8

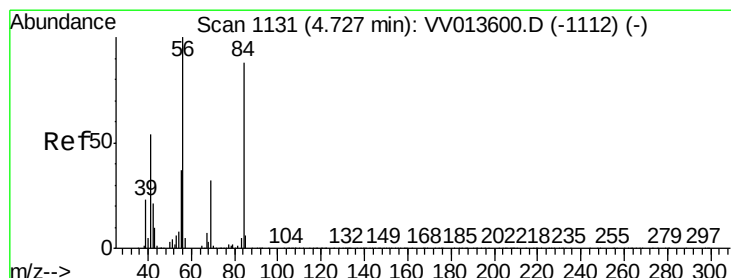
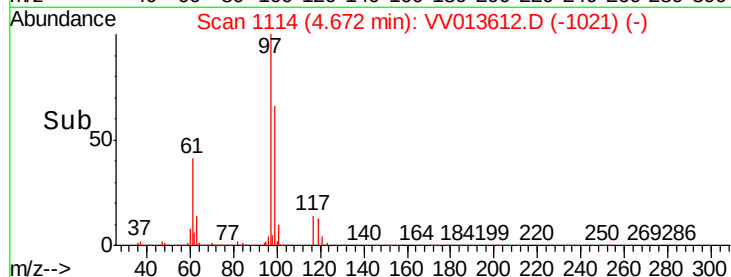
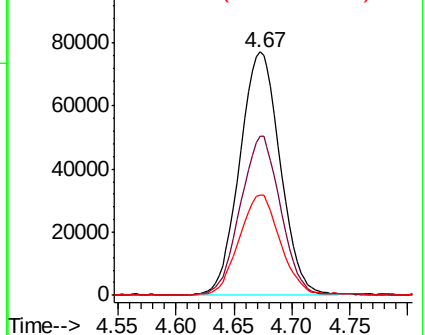
61 42.3 34.1 51.1



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.986 ug/L

RT: 4.73 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

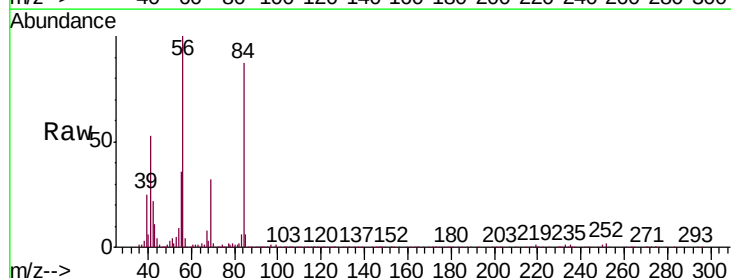
Tgt Ion: 56 Resp: 179564

Ion Ratio Lower Upper

56 100

69 31.3 25.0 37.4

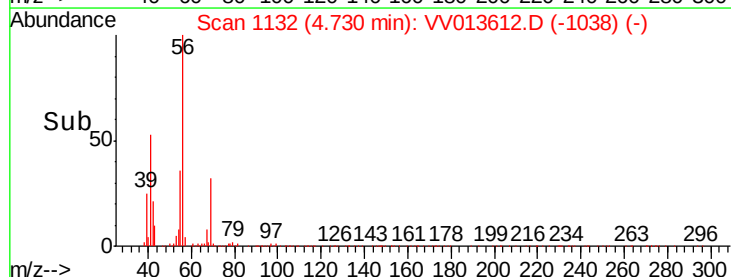
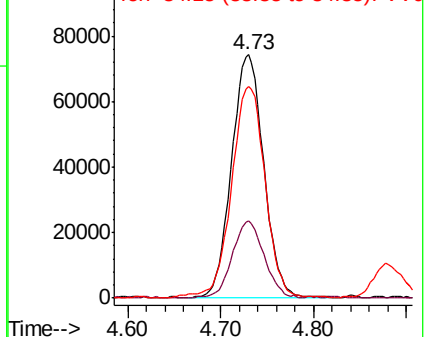
84 90.8 75.5 113.3

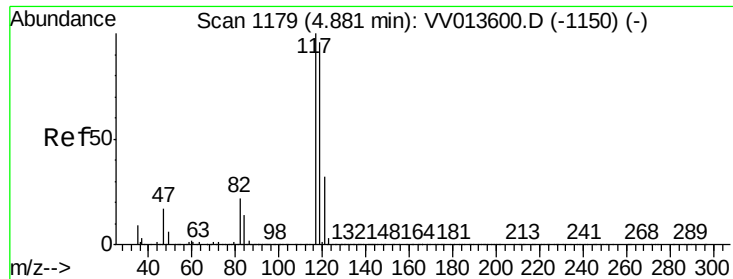


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

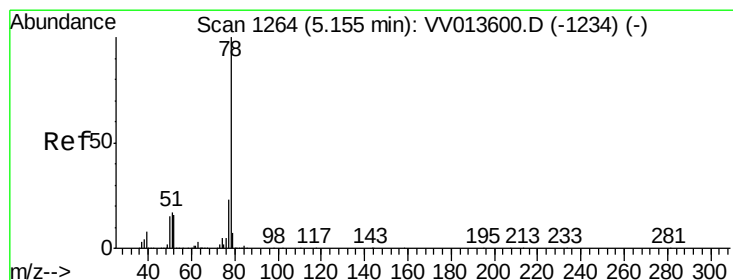
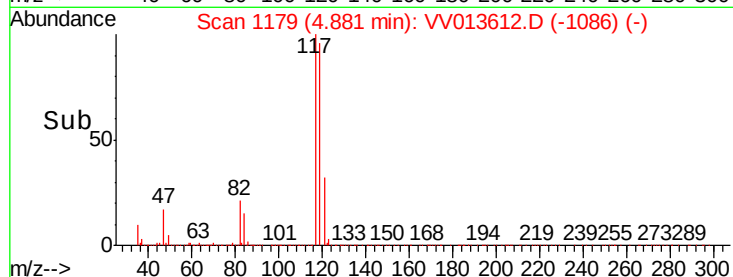
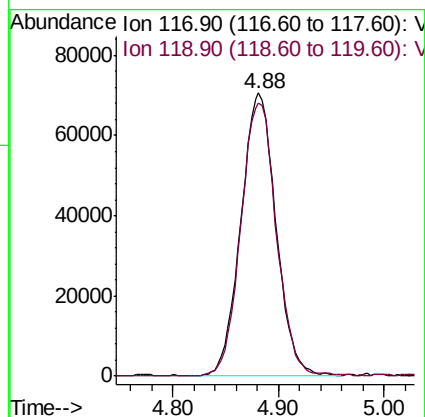
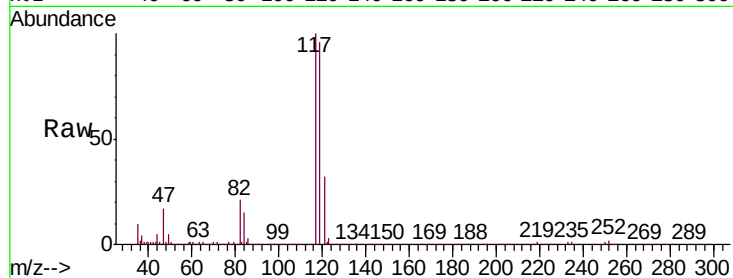




#31
Carbon tetrachloride
Concen: 5.002 ug/L
RT: 4.88 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VV013612.D
Acq: 13 Nov 2019 19:17

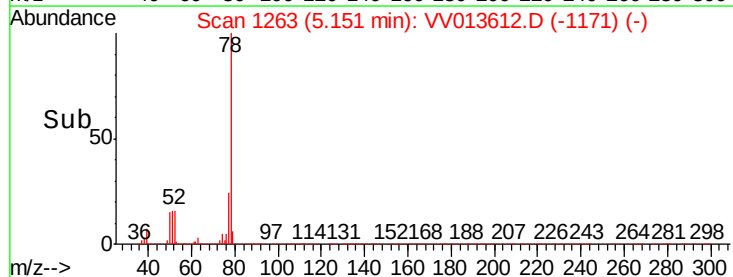
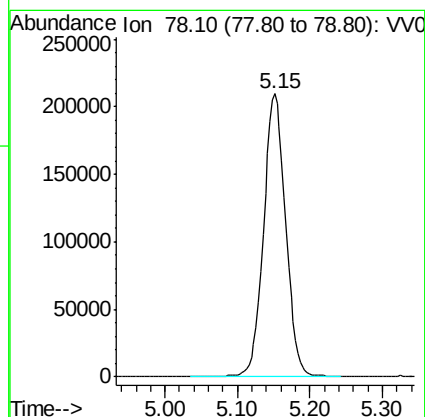
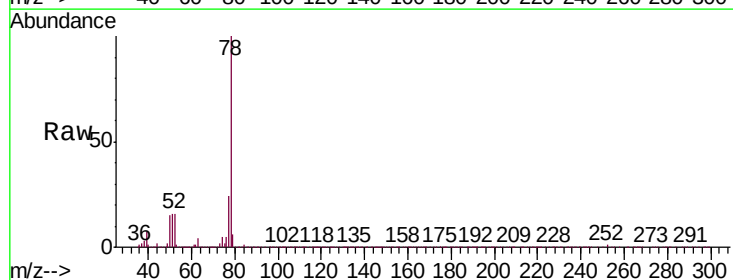
Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

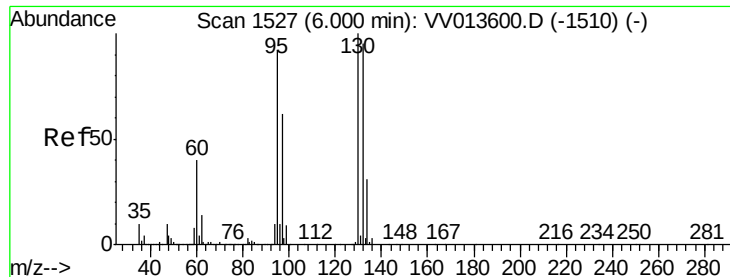
Tgt Ion:117 Resp: 162693
Ion Ratio Lower Upper
117 100
119 97.2 76.9 115.3



#33
Benzene
Concen: 4.515 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VV013612.D
Acq: 13 Nov 2019 19:17

Tgt Ion: 78 Resp: 443353





#34

Trichloroethene

Concen: 5.131 ug/L

RT: 5.97 min Scan# 1518

Delta R.T. -0.03 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

Tgt Ion: 95 Resp: 141416

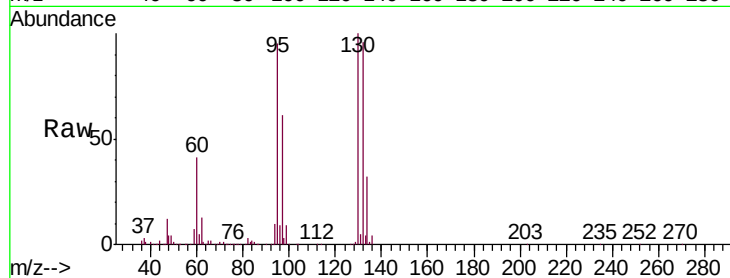
Ion Ratio Lower Upper

95 100

97 64.3 47.0 87.4

132 100.9 72.2 134.0

130 105.4 75.7 140.7

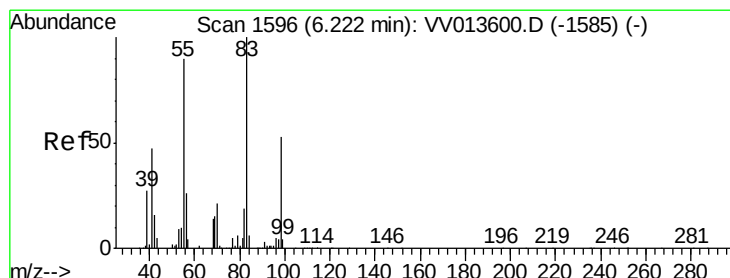
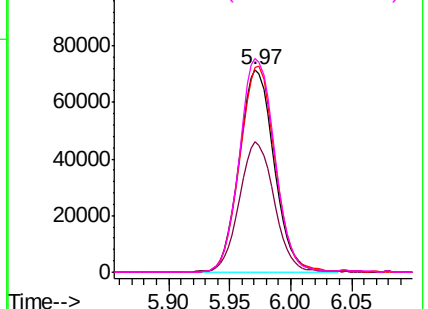
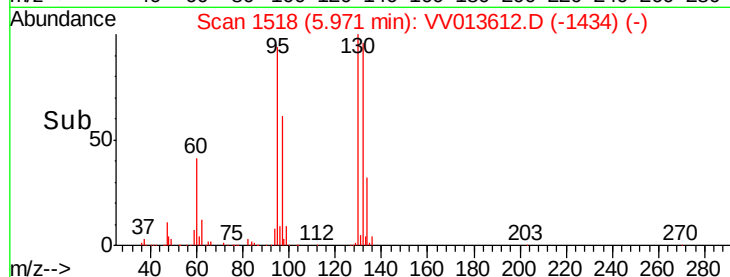


Abundance Ion 95.00 (94.70 to 95.70): VV013612.D (-1510) (-)

Ion 96.95 (96.65 to 97.65): VV013612.D (-1510) (-)

Ion 131.95 (131.65 to 132.65): VV013612.D (-1510) (-)

Ion 129.95 (129.65 to 130.65): VV013612.D (-1510) (-)



#35

Methylcyclohexane

Concen: 4.699 ug/L

RT: 6.19 min Scan# 1586

Delta R.T. -0.03 min

Lab File: VV013612.D

Acq: 13 Nov 2019 19:17

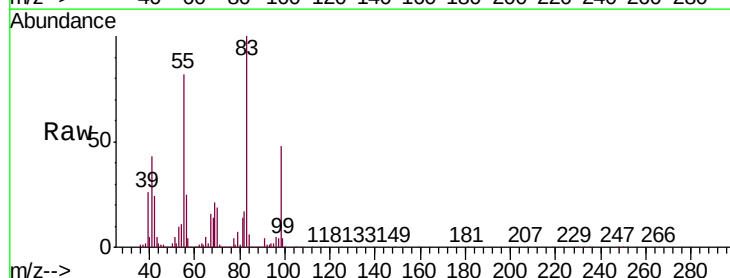
Tgt Ion: 83 Resp: 188200

Ion Ratio Lower Upper

83 100

55 83.0 67.0 100.4

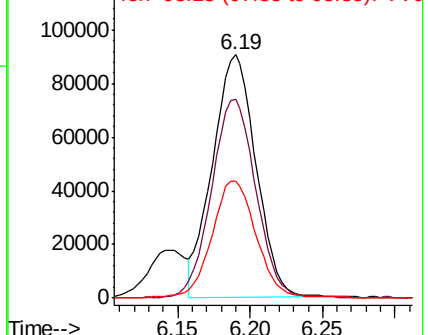
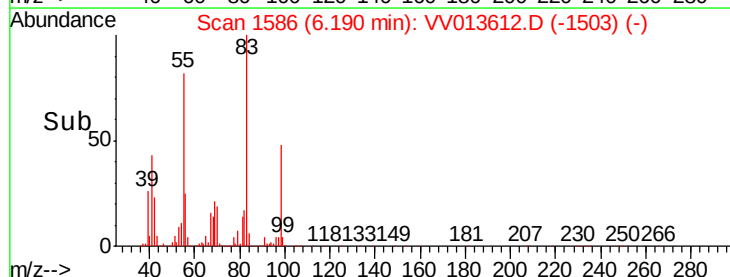
98 49.5 38.5 57.7

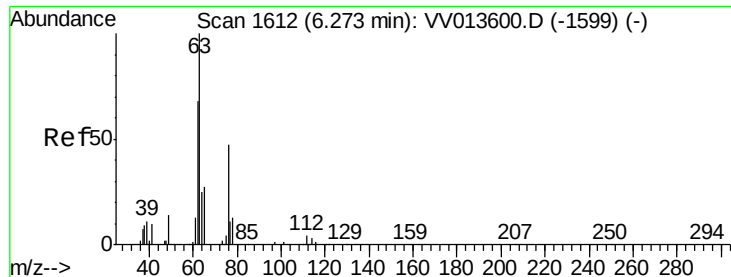


Abundance Ion 83.15 (82.85 to 83.85): VV013612.D (-1585) (-)

Ion 55.10 (54.80 to 55.80): VV013612.D (-1585) (-)

Ion 98.15 (97.85 to 98.85): VV013612.D (-1585) (-)

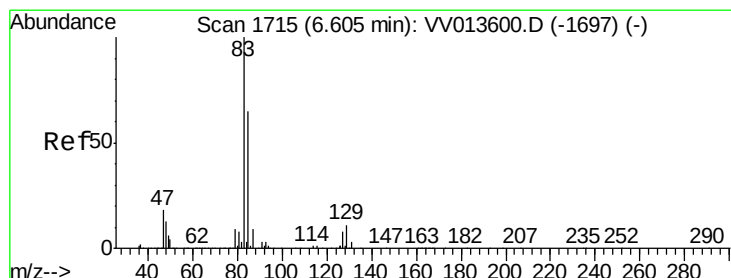
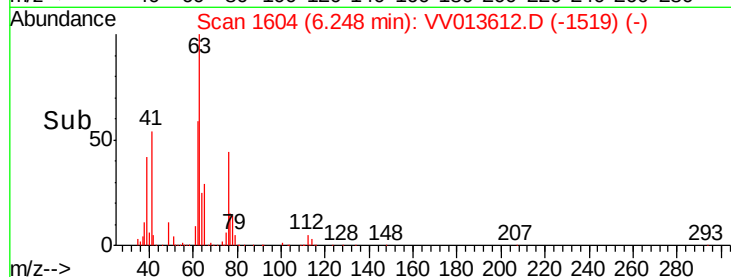
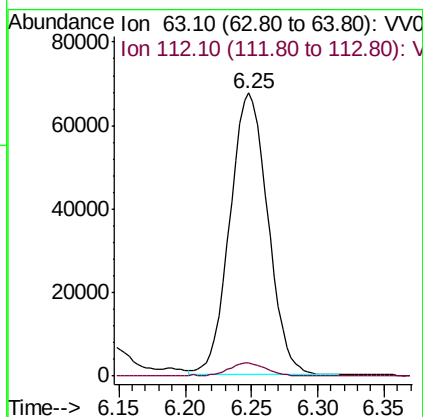
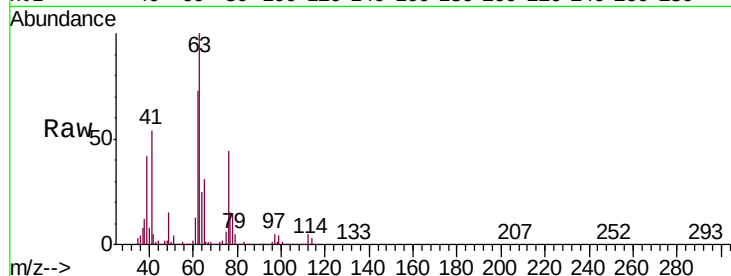




#37
 1,2-Dichloropropane
 Concen: 5.293 ug/L
 RT: 6.25 min Scan# 1604
 Delta R.T. -0.03 min
 Lab File: VV013612.D
 Acq: 13 Nov 2019 19:17

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

Tgt Ion: 63 Resp: 134201
 Ion Ratio Lower Upper
 63 100
 112 4.5 0.2 0.2#



#38
 Bromodichloromethane
 Concen: 5.028 ug/L
 RT: 6.59 min Scan# 1712
 Delta R.T. -0.01 min
 Lab File: VV013612.D
 Acq: 13 Nov 2019 19:17

Tgt Ion: 83 Resp: 174400
 Ion Ratio Lower Upper
 83 100
 85 61.4 45.5 84.5
 127 8.9 6.8 10.2

