

Data File : VV013756.D
Acq On : 25 Nov 2019 10:08
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Quant Time: Nov 26 04:34:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Nov 25 16:12:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	404188	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	373096	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	205449	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	109682	4.38	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.60%
7) Chloroethane-d5	1.58	69	102178	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.20%
11) 1,1-Dichloroethene-d2	2.13	63	199169	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.60%
20) 2-Butanone-d5	3.92	46	255824	49.19	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.38%
24) Chloroform-d	4.39	84	237020	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	5.07	65	112467	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	5.09	84	456957	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
36) 1,2-Dichloropropane-d6	6.11	67	140103	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.35	98	435515	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
43) trans-1,3-Dichloropropene-	7.66	79	50760	4.55	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.00%
46) 2-Hexanone-d5	8.13	63	195918	47.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.14%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	95123	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	167213	4.61	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	137913	5.123	ug/L	97
3) Chloromethane	1.25	50	107637	4.553	ug/L	99
5) Vinyl chloride	1.32	62	123797	5.127	ug/L	93
6) Bromomethane	1.53	94	50426	3.966	ug/L	99
8) Chloroethane	1.60	64	76923	5.287	ug/L	98
9) Trichlorofluoromethane	1.77	101	198633	5.298	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	116813	5.243	ug/L	99
12) 1,1-Dichloroethene	2.14	96	98792	5.084	ug/L	91
13) Acetone	2.18	43	168313	46.281	ug/L #	59
14) Carbon disulfide	2.32	76	230020	5.127	ug/L	100
15) Methyl Acetate	2.46	43	43744	5.373	ug/L	96
16) Methylene chloride	2.53	84	124229	4.667	ug/L	96
17) Methyl tert-butyl Ether	2.80	73	262110	4.928	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	113449	5.170	ug/L	99
19) 1,1-Dichloroethane	3.23	63	228280	5.211	ug/L	99
21) 2-Butanone	4.00	43	281478	51.205	ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	130605	5.075	ug/L	97

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ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Quant Time: Nov 26 04:34:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Nov 25 16:12:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	59739	5.283	ug/L	98
25) Chloroform	4.42	83	259149	5.580	ug/L	98
27) 1,2-Dichloroethane	5.17	62	129682	4.879	ug/L	98
29) 1,1,1-Trichloroethane	4.65	97	203771	5.339	ug/L	99
30) Cyclohexane	4.72	56	165288	5.184	ug/L	99
31) Carbon tetrachloride	4.87	117	181489	5.405	ug/L	100
33) Benzene	5.14	78	483120	5.279	ug/L	100
34) Trichloroethene	5.95	95	131904	5.225	ug/L	96
35) Methylcyclohexane	6.17	83	175277	5.203	ug/L	97
37) 1,2-Dichloropropane	6.22	63	122619	5.213	ug/L	100
38) Bromodichloromethane	6.55	83	164653	5.305	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	173088	5.186	ug/L	100
40) 4-Methyl-2-pentanone	7.26	43	681634	49.666	ug/L	99
42) Toluene	7.43	91	518487	5.282	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	132128	5.058	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	86917	5.185	ug/L	97
47) Tetrachloroethene	8.01	164	111457	5.084	ug/L	97
48) 2-Hexanone	8.18	43	466183	47.588	ug/L	100
49) Dibromochloromethane	8.28	129	111242	5.174	ug/L	99
50) 1,2-Dibromoethane	8.39	107	77112	5.080	ug/L #	94
51) Chlorobenzene	8.92	112	342276	5.011	ug/L	99
52) Ethylbenzene	9.05	91	541931	5.082	ug/L	99
53) m,p-xylene	9.18	106	211747	5.209	ug/L	99
54) o-xylene	9.58	106	204564	5.154	ug/L	99
55) Styrene	9.60	104	354279	5.170	ug/L	99
56) Isopropylbenzene	9.97	105	567436	5.246	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	93804	5.093	ug/L	98
59) 1,2,3-Trichloropropane	10.31	75	72622	5.030	ug/L	98
61) Bromoform	9.77	173	67527	5.223	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	311569	5.220	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	302828	4.985	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	282942	5.108	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	14657	4.553	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	257501	5.108	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	205641	4.974	ug/L	99
69) Naphthalene	13.55	128	261262	4.641	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	195031	5.178	ug/L	97

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

Data File : VV013756.D

Acq On : 25 Nov 2019 10:08

Operator : SY/MD

Sample : VSTDCCC005

Misc : 25.0mL/MSVOA V/WATER

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ALS Vial      : 2      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

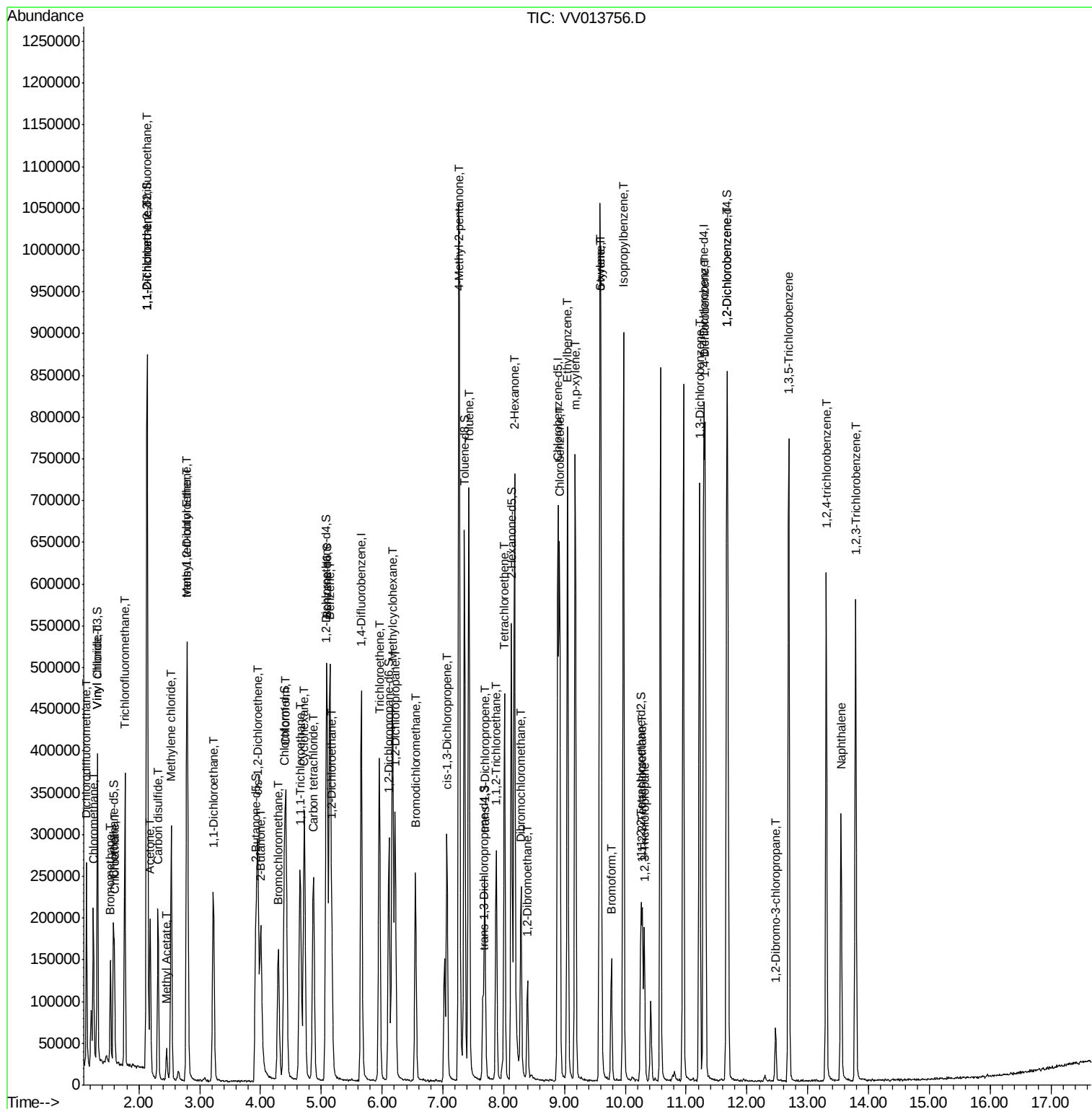
Quant Time: Nov 26 04:34:06 2019

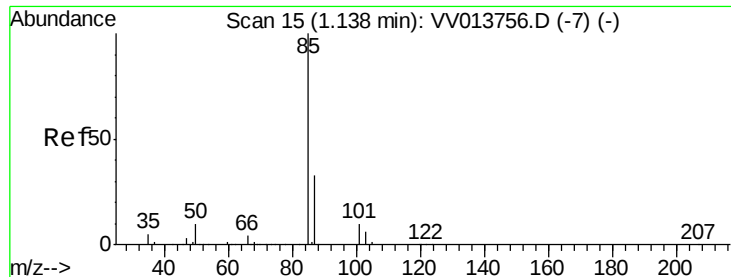
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR112219WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Nov 25 16:12:33 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.123 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

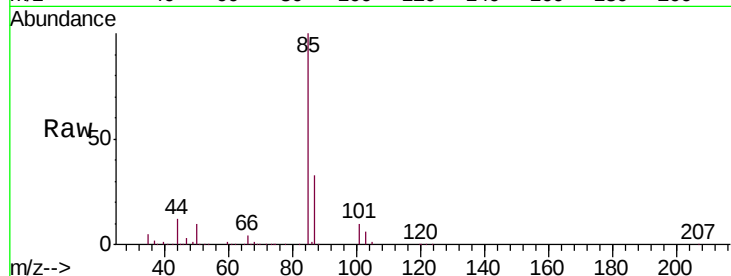
VSTD00548

Tgt Ion: 85 Resp: 137913

Ion Ratio Lower Upper

85 100

87 32.7 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

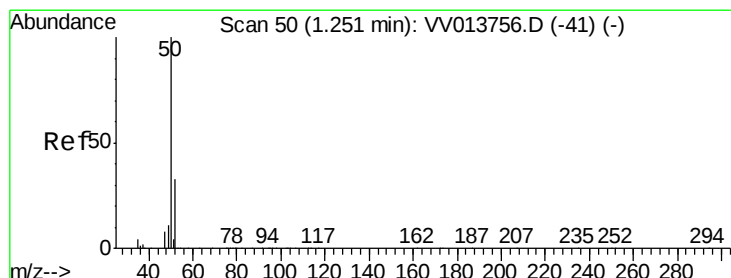
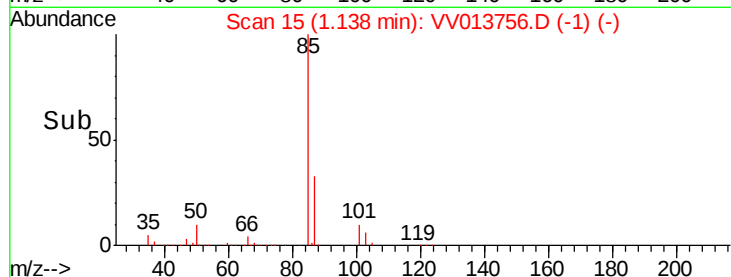
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100000

50000

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Time-->



#3

Chloromethane

Concen: 4.553 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013756.D

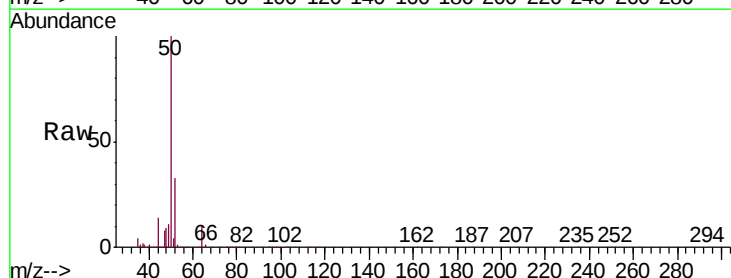
Acq: 25 Nov 2019 10:08

Tgt Ion: 50 Resp: 107637

Ion Ratio Lower Upper

50 100

52 32.6 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.25

120000

100000

80000

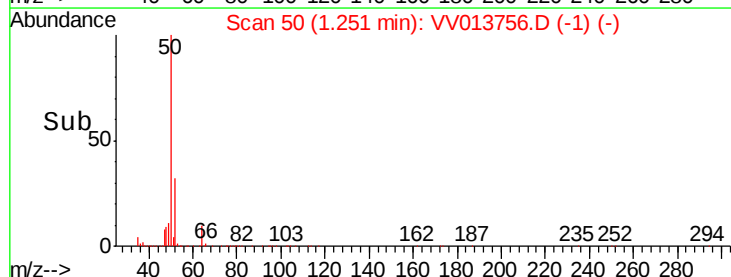
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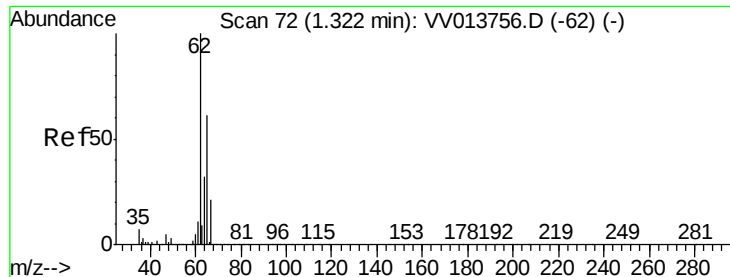
40000

20000

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Time-->





#5

Vinyl chloride

Concen: 5.127 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

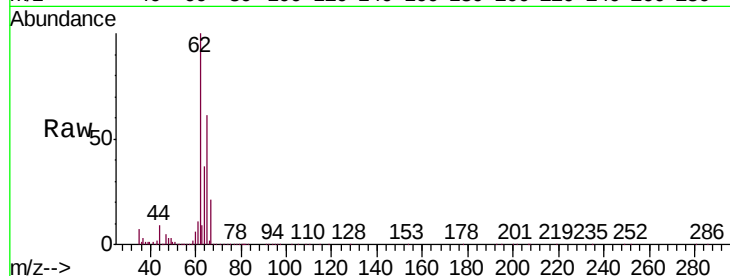
VSTD00548

Tgt Ion: 62 Resp: 123797

Ion Ratio Lower Upper

62 100

64 37.4 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

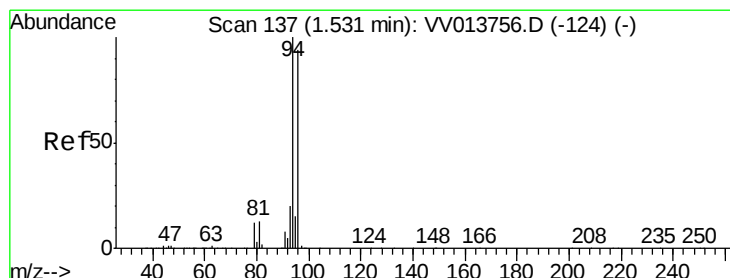
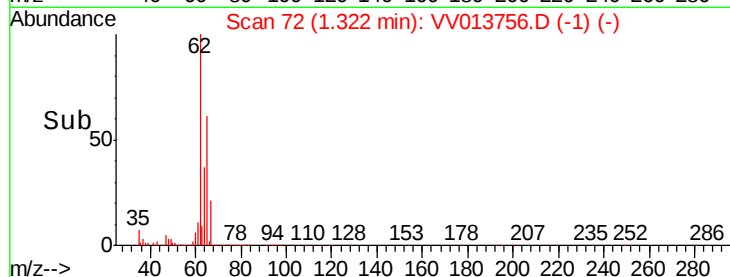
1.32

100000

50000

0

Time-->



#6

Bromomethane

Concen: 3.966 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013756.D

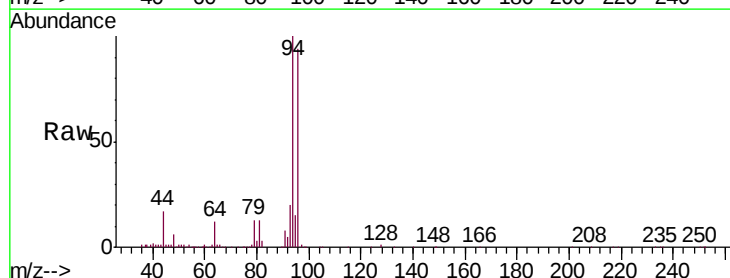
Acq: 25 Nov 2019 10:08

Tgt Ion: 94 Resp: 50426

Ion Ratio Lower Upper

94 100

96 93.8 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

50000

40000

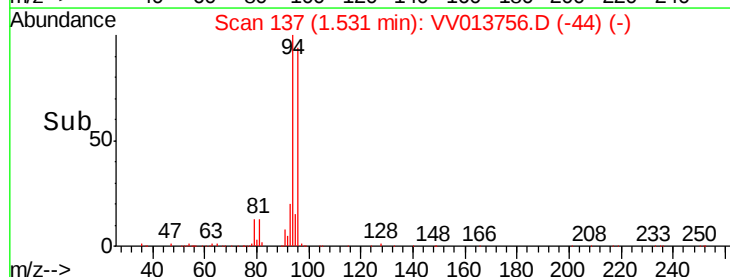
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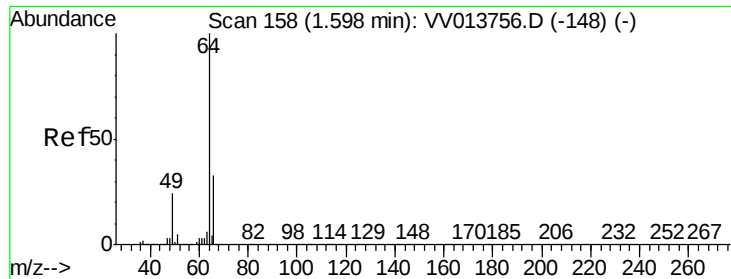
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Time-->

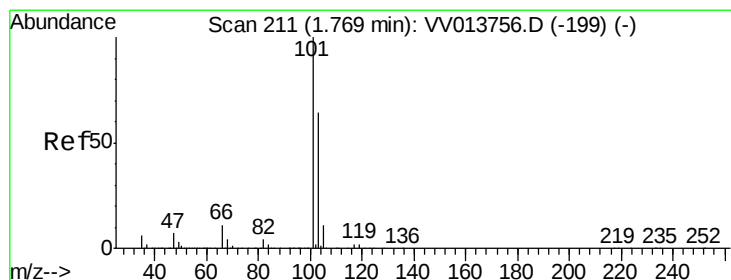
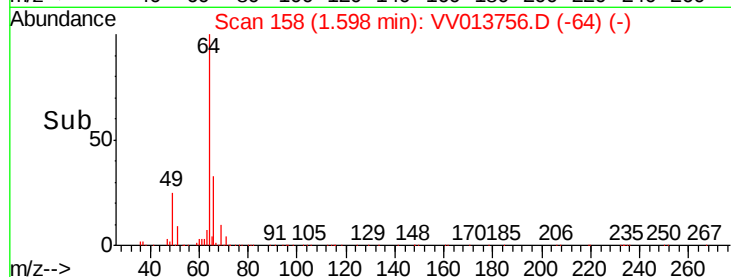
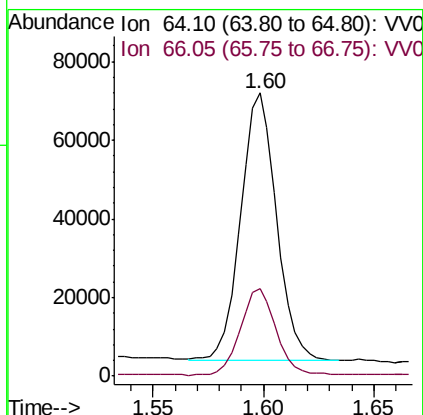
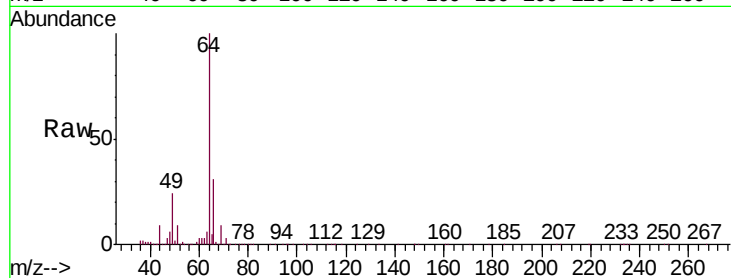




#8
Chloroethane
Concen: 5.287 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

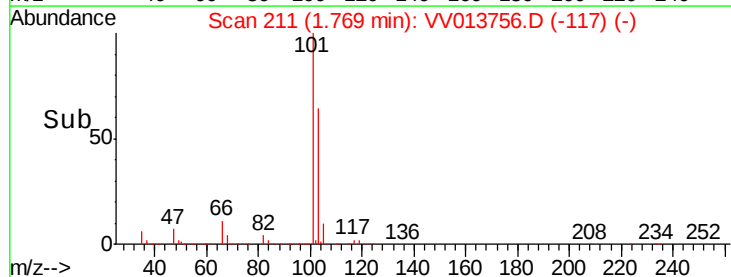
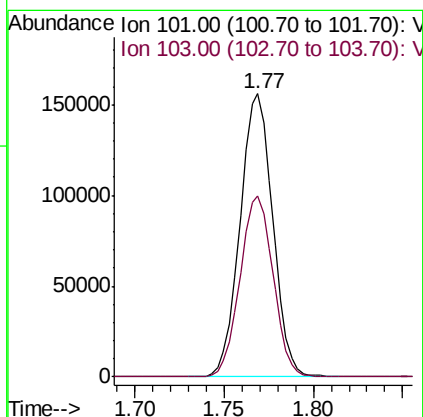
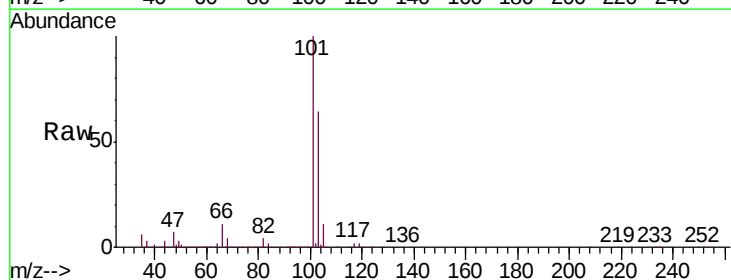
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

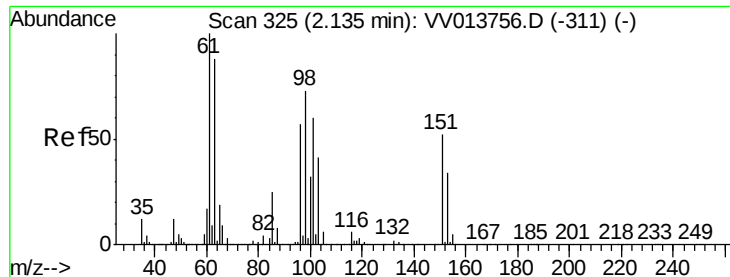
Tgt Ion: 64 Resp: 76923
Ion Ratio Lower Upper
64 100
66 31.1 22.6 42.0



#9
Trichlorofluoromethane
Concen: 5.298 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion: 101 Resp: 198633
Ion Ratio Lower Upper
101 100
103 64.5 52.9 79.3





#10

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

Concen: 5.243 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

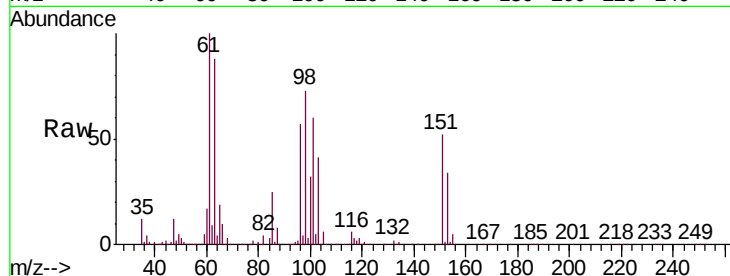
Tgt Ion:101 Resp: 116813

Ion Ratio Lower Upper

101 100

85 40.7 33.4 50.0

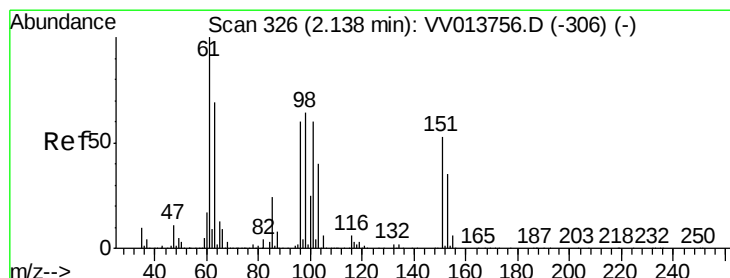
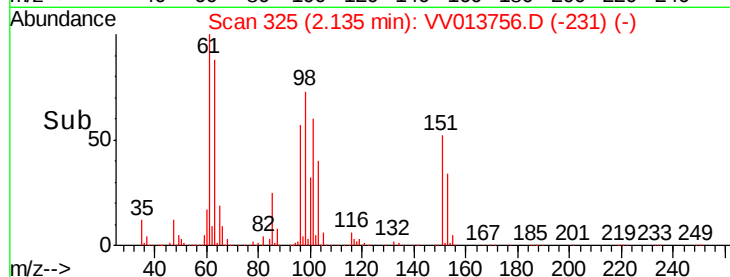
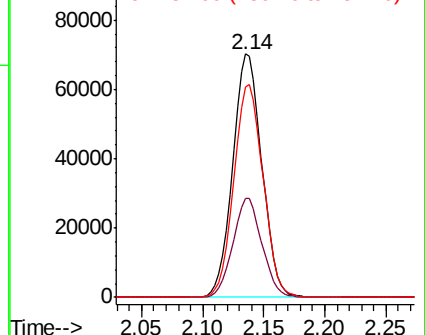
151 87.6 69.4 104.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.084 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

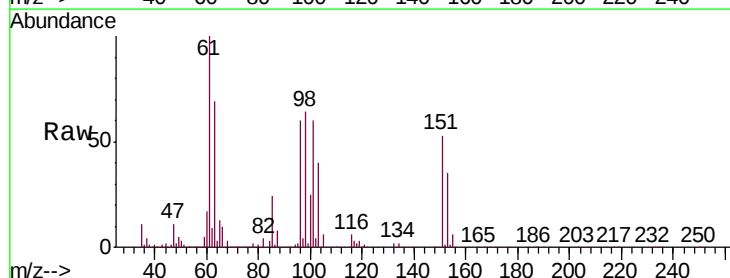
Tgt Ion: 96 Resp: 98792

Ion Ratio Lower Upper

96 100

61 167.4 116.3 215.9

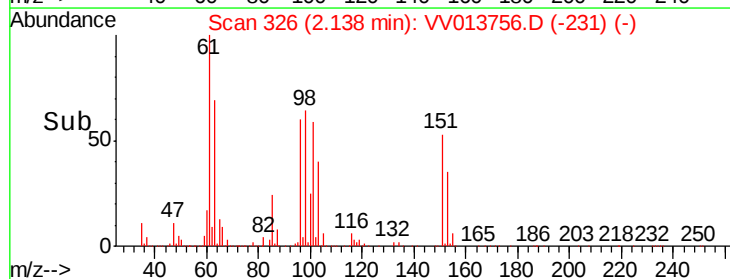
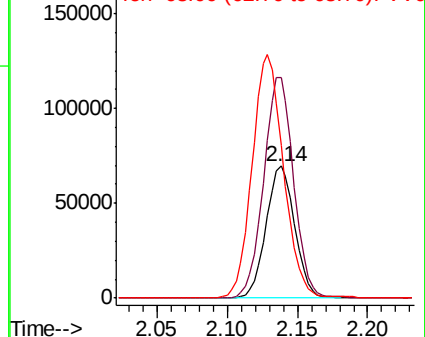
63 115.6 96.7 179.7

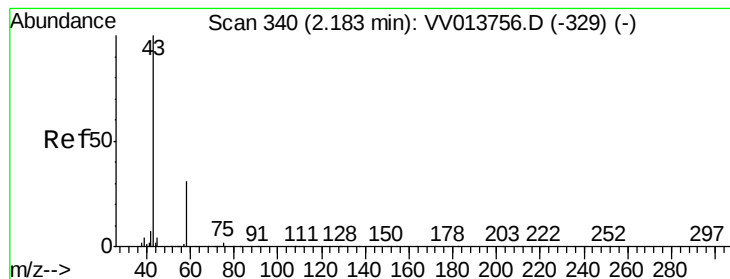


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 46.281 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.05 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

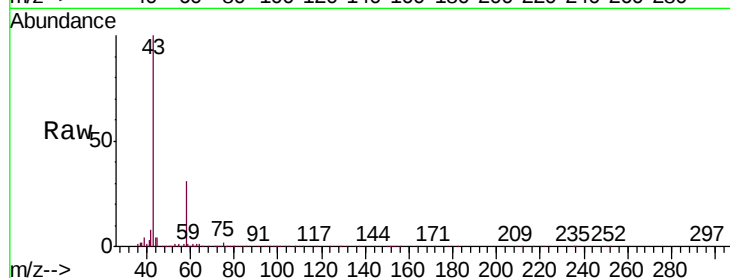
VSTD00548

Tgt Ion: 43 Resp: 168313

Ion Ratio Lower Upper

43 100

58 30.2 0.0 27.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

120000

100000

80000

60000

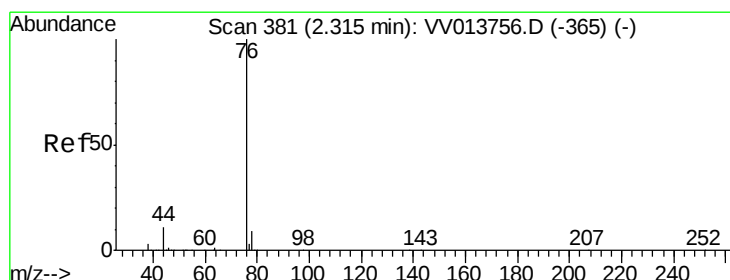
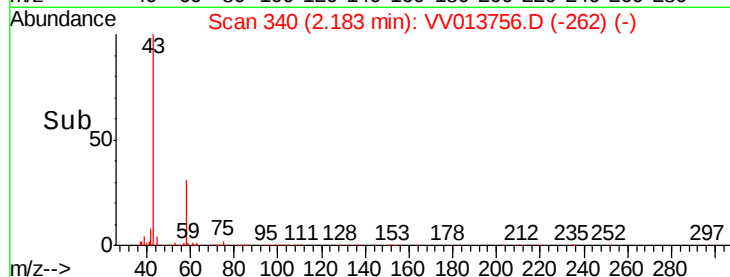
40000

20000

0

2.10 2.15 2.20 2.25 2.30

Time-->



#14

Carbon disulfide

Concen: 5.127 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV013756.D

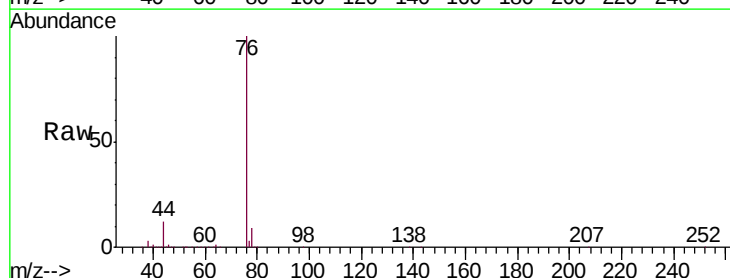
Acq: 25 Nov 2019 10:08

Tgt Ion: 76 Resp: 230020

Ion Ratio Lower Upper

76 100

78 9.4 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

150000

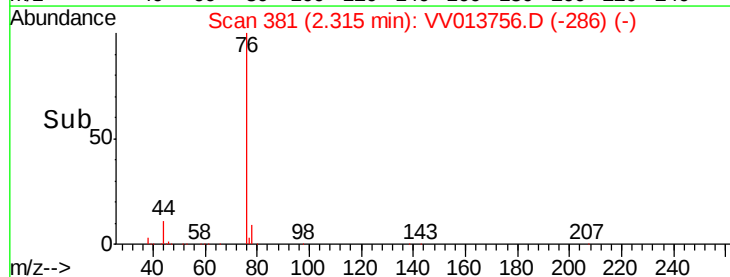
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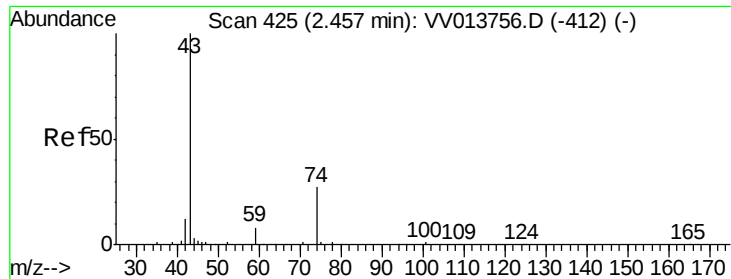
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2.25 2.30 2.35 2.40

Time-->

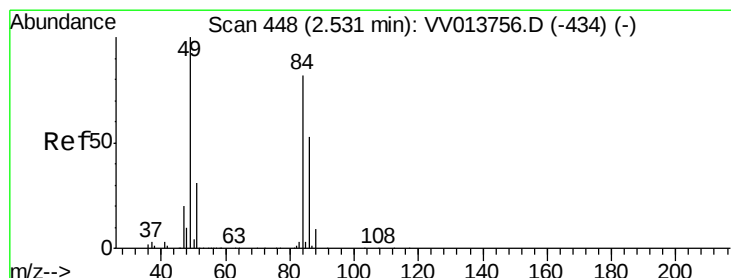
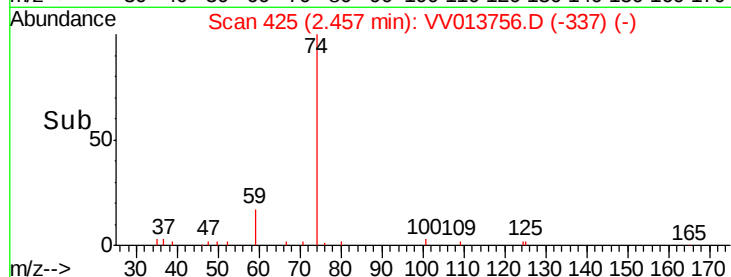
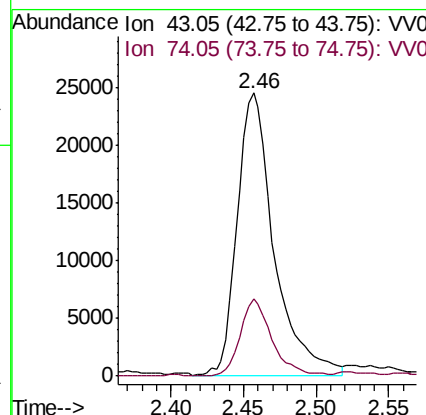
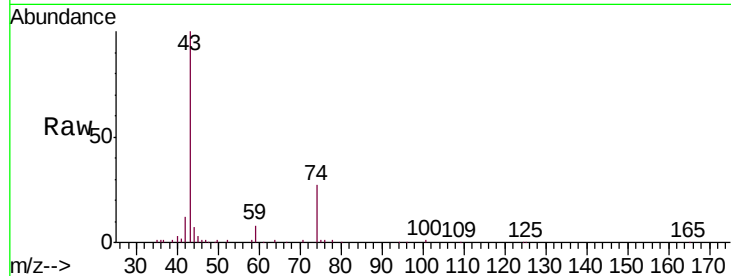




#15
Methyl Acetate
Concen: 5.373 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.02 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

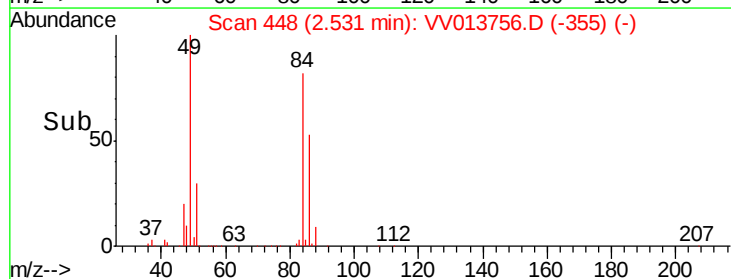
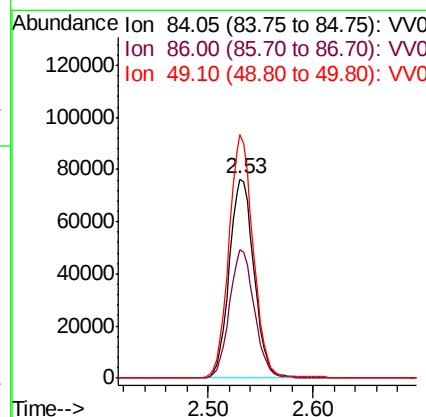
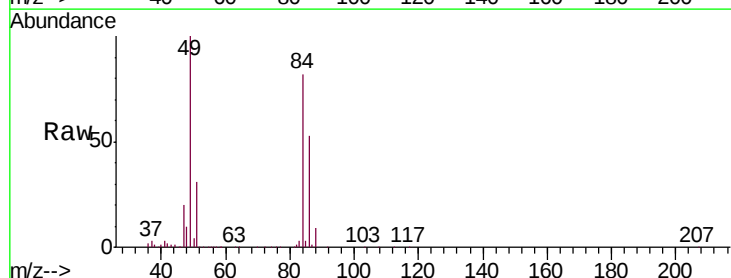
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

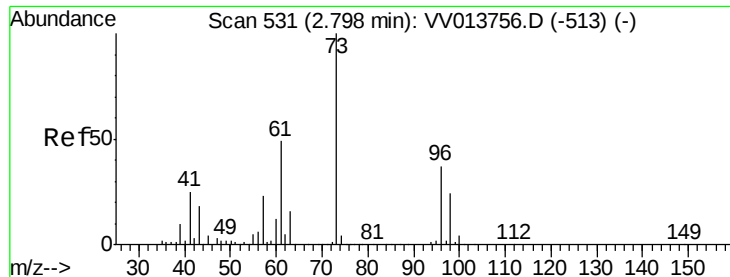
Tgt Ion: 43 Resp: 43744
Ion Ratio Lower Upper
43 100
74 23.5 20.5 30.7



#16
Methylene chloride
Concen: 4.667 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion: 84 Resp: 124229
Ion Ratio Lower Upper
84 100
86 64.4 44.0 81.6
49 122.2 81.5 151.5

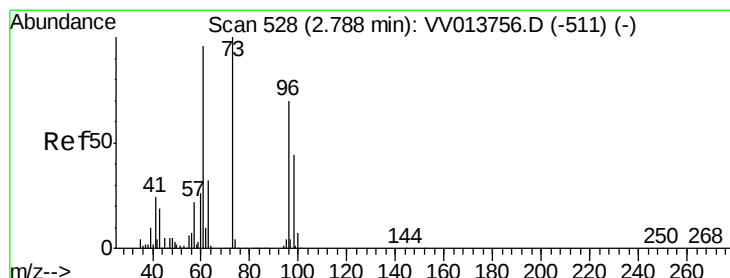
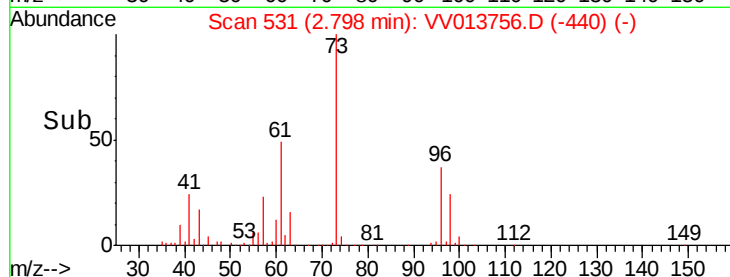
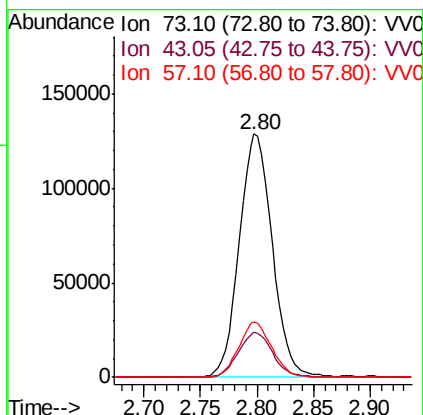
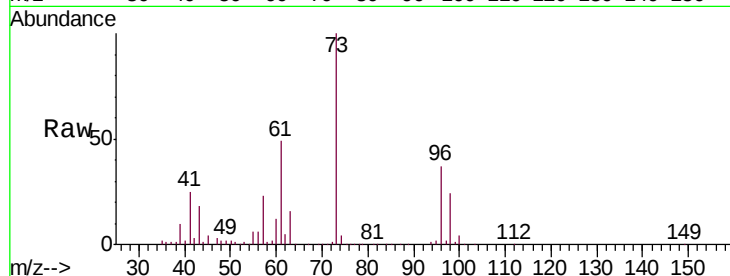




#17
Methyl tert-butyl Ether
Concen: 4.928 ug/L
RT: 2.80 min Scan# 531
Delta R.T. -0.01 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

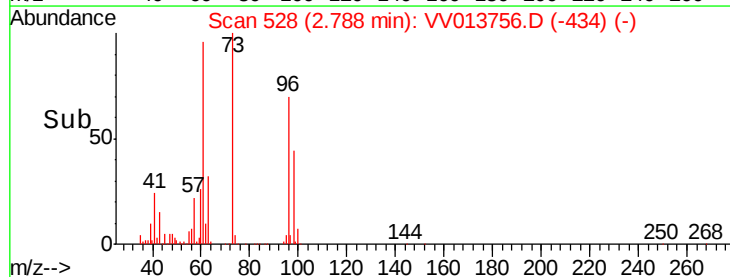
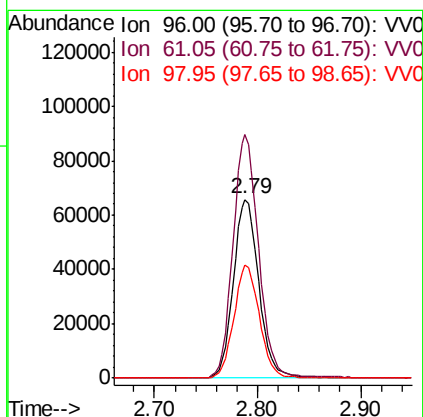
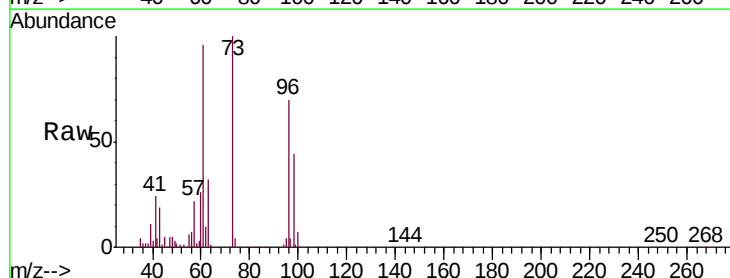
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

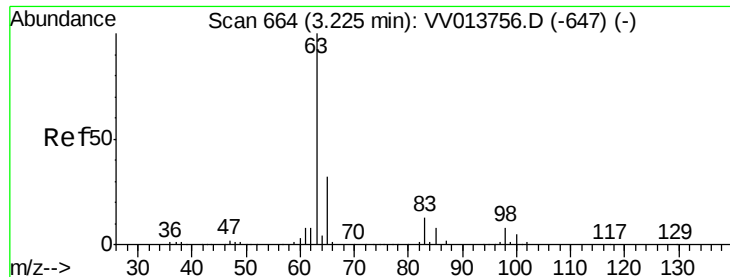
Tgt Ion: 73 Resp: 262110
Ion Ratio Lower Upper
73 100
43 19.5 15.5 23.3
57 22.7 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 5.170 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion: 96 Resp: 113449
Ion Ratio Lower Upper
96 100
61 136.3 95.1 176.7
98 63.4 46.5 86.3

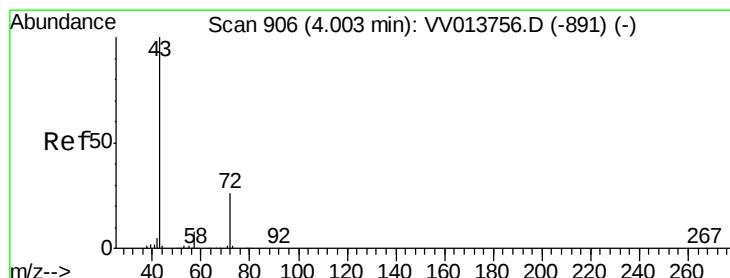
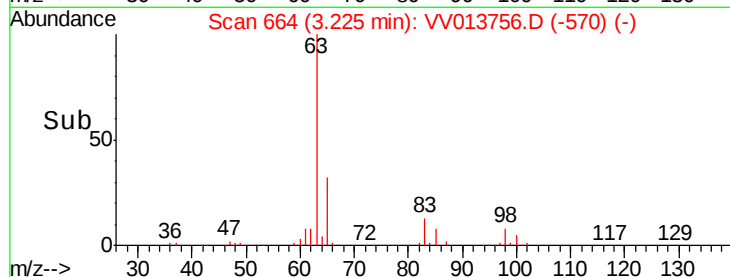
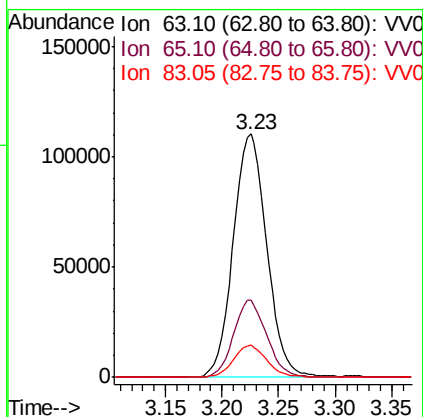
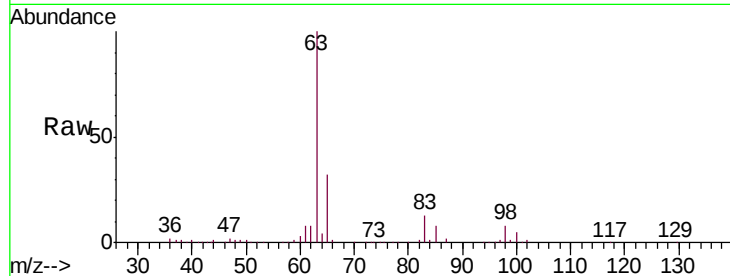




#19
 1,1-Dichloroethane
 Concen: 5.211 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

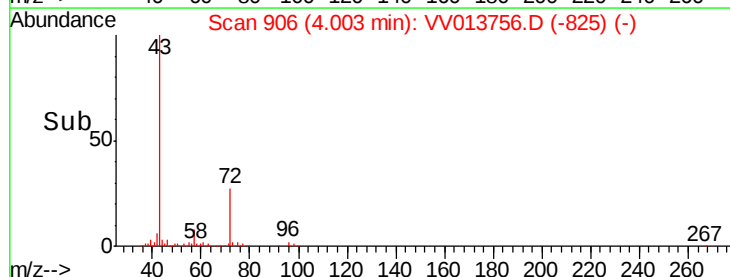
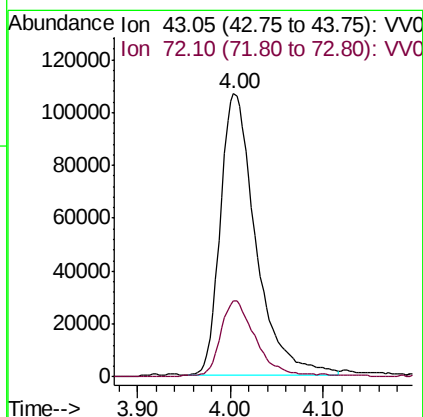
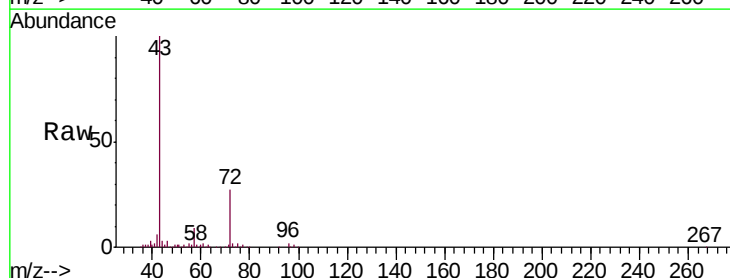
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

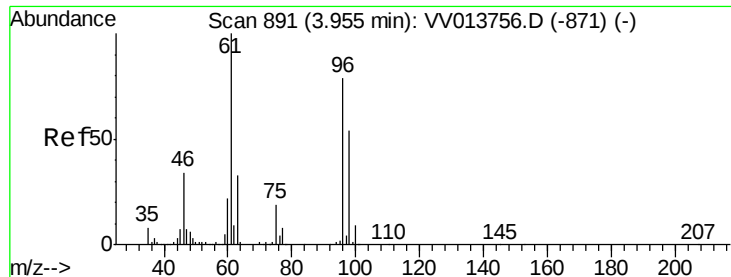
Tgt Ion: 63 Resp: 228280
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.7 42.1
 83 13.1 9.2 17.2



#21
 2-Butanone
 Concen: 51.205 ug/L
 RT: 4.00 min Scan# 906
 Delta R.T. -0.04 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Tgt Ion: 43 Resp: 281478
 Ion Ratio Lower Upper
 43 100
 72 26.3 12.3 36.9



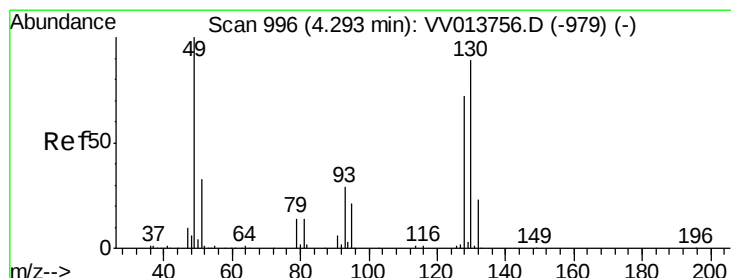
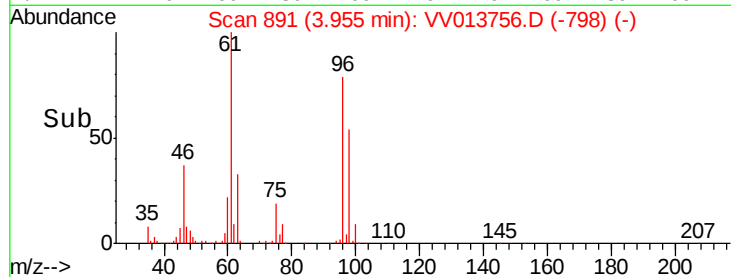
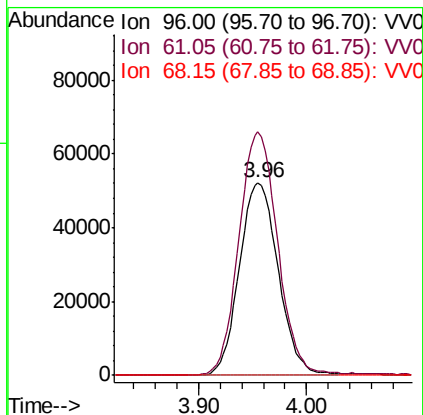
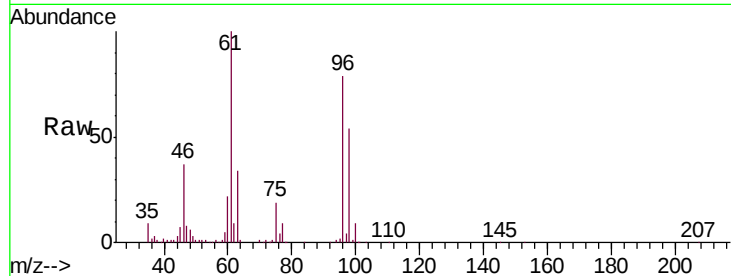


#22

cis-1,2-Dichloroethene
Concen: 5.075 ug/L
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

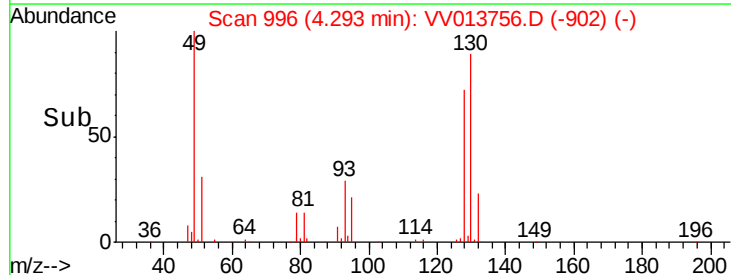
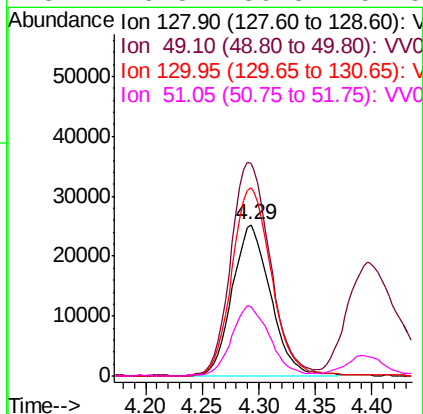
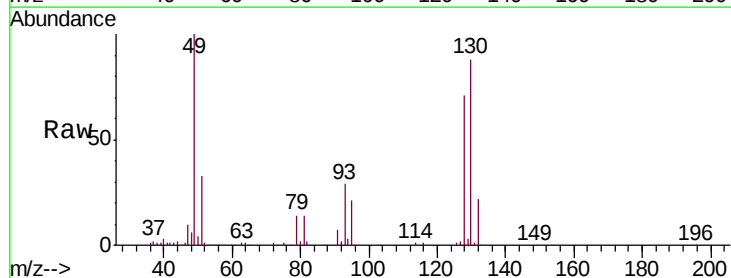
Tgt Ion: 96 Resp: 130605
Ion Ratio Lower Upper
96 100
61 126.1 86.1 159.9
68 0.0 0.0 0.0

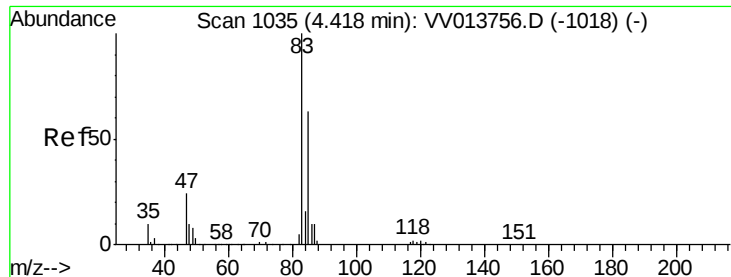


#23

Bromochloromethane
Concen: 5.283 ug/L
RT: 4.29 min Scan# 996
Delta R.T. 0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion: 128 Resp: 59739
Ion Ratio Lower Upper
128 100
49 140.3 100.1 185.9
130 123.8 89.0 165.4
51 45.8 36.3 54.5

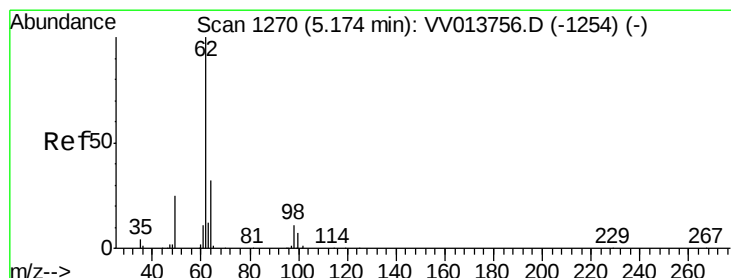
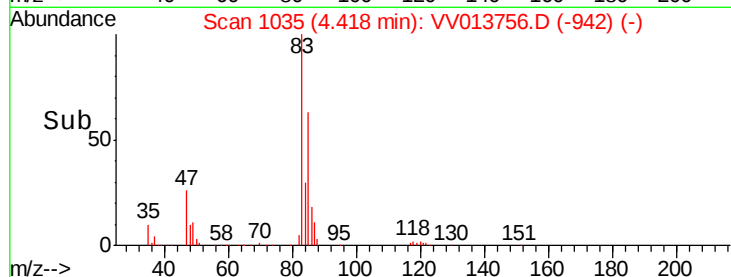
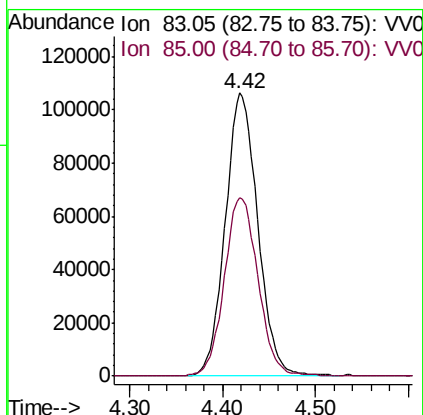
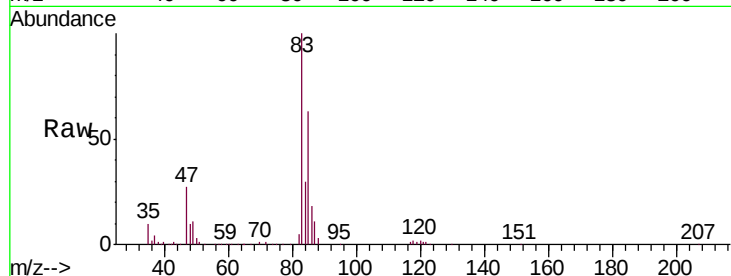




#25
Chloroform
Concen: 5.580 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

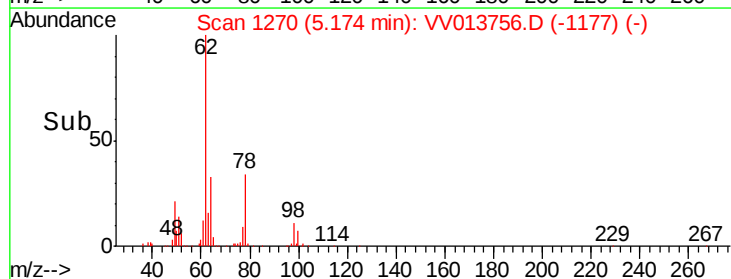
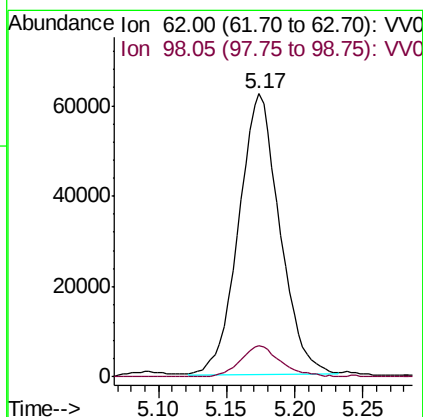
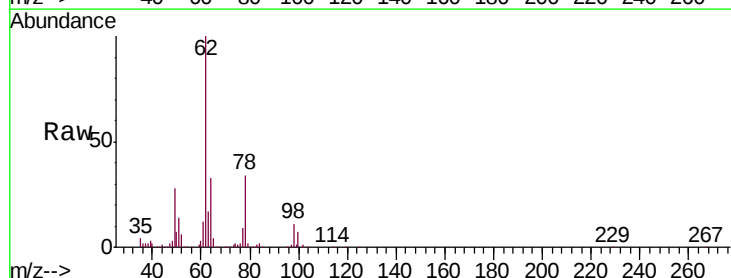
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

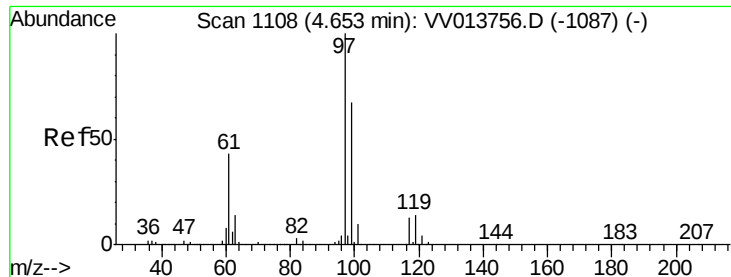
Tgt Ion: 83 Resp: 259149
Ion Ratio Lower Upper
83 100
85 63.2 45.1 83.7



#27
1,2-Dichloroethane
Concen: 4.879 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion: 62 Resp: 129682
Ion Ratio Lower Upper
62 100
98 11.1 8.2 12.2

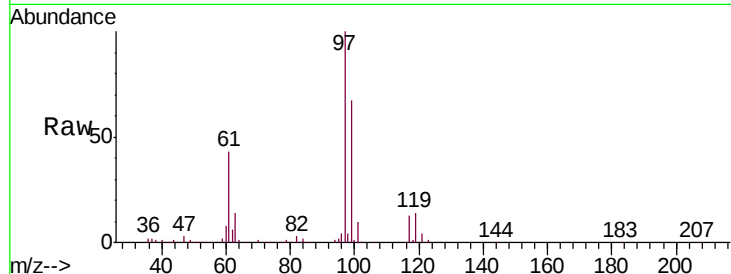




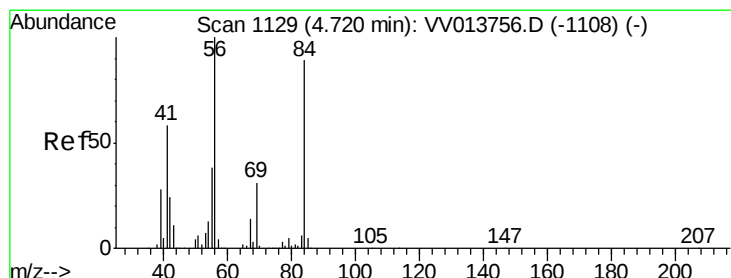
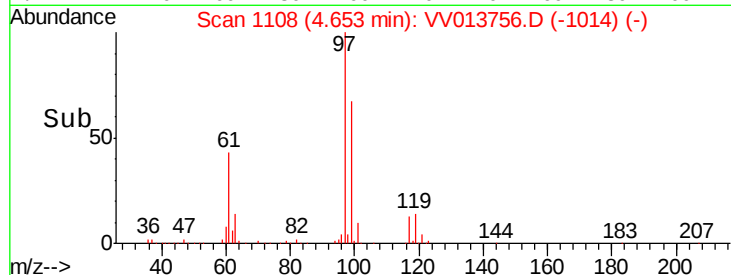
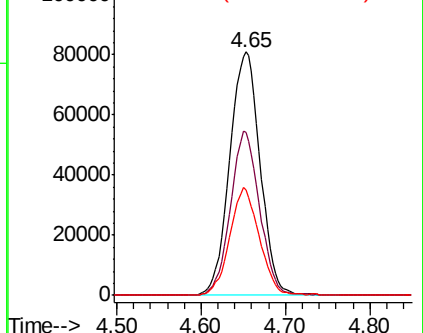
#29
 1,1,1-Trichloroethane
 Concen: 5.339 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion: 97 Resp: 203771
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.7 77.5
 61 42.4 35.0 52.6

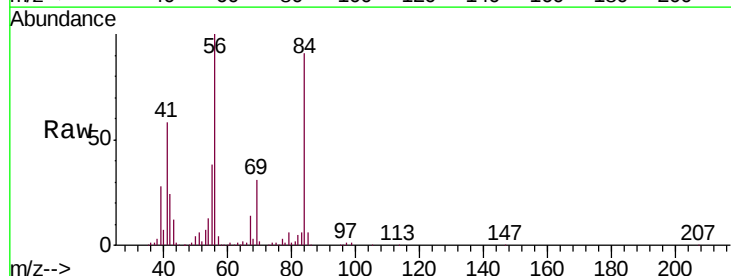


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

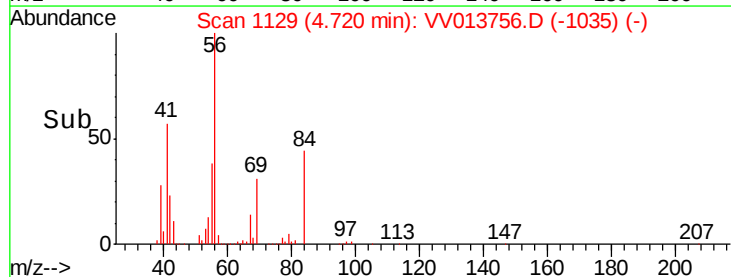
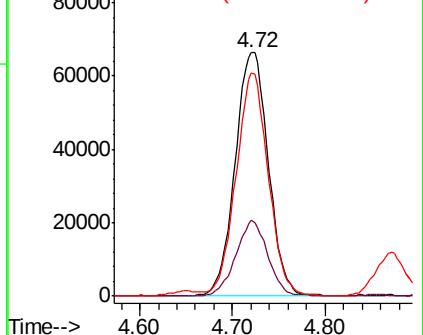


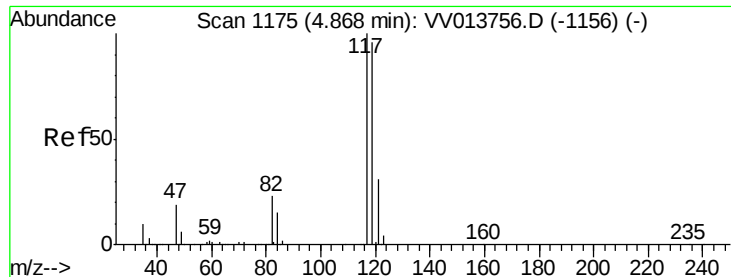
#30
 Cyclohexane
 Concen: 5.184 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Tgt Ion: 56 Resp: 165288
 Ion Ratio Lower Upper
 56 100
 69 29.8 24.1 36.1
 84 88.6 69.9 104.9



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

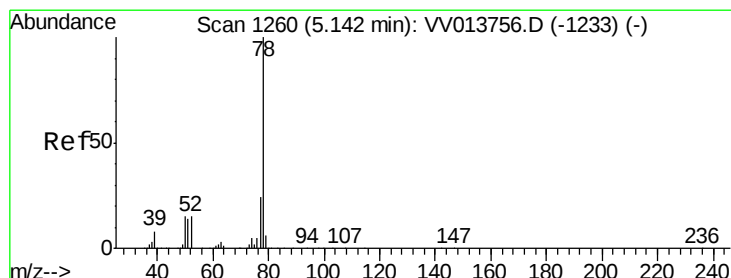
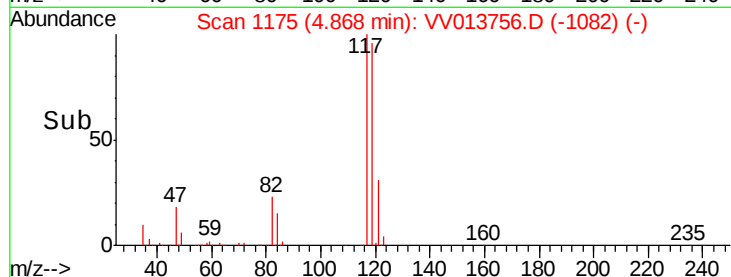
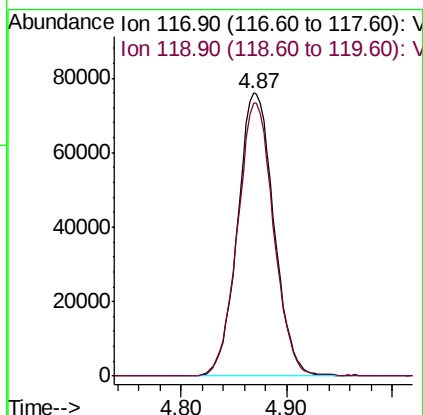
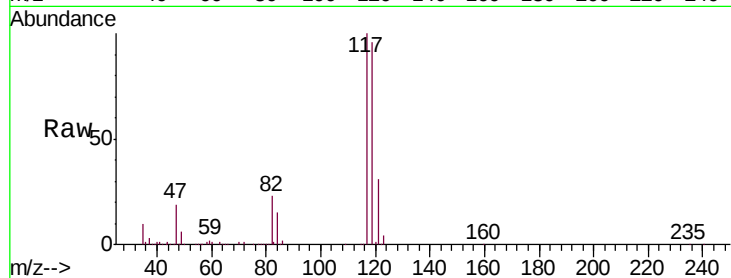




#31
Carbon tetrachloride
Concen: 5.405 ug/L
RT: 4.87 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

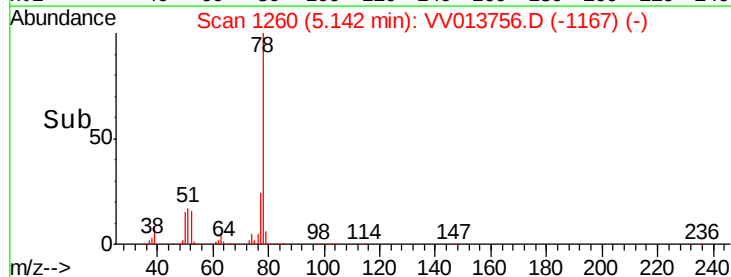
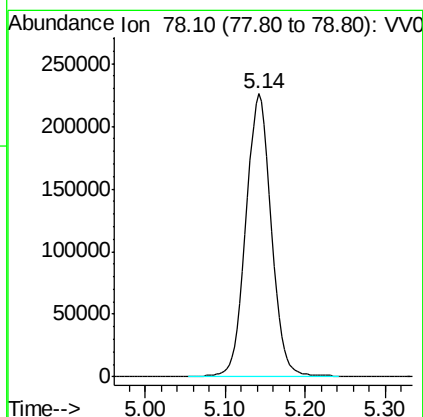
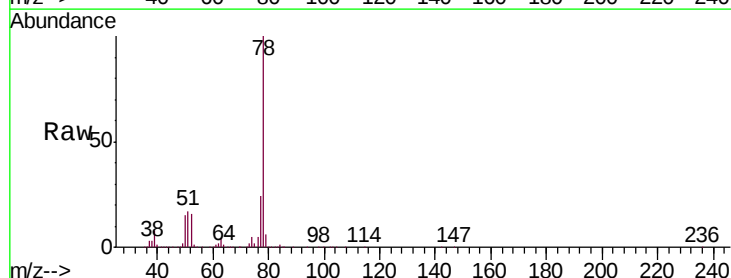
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

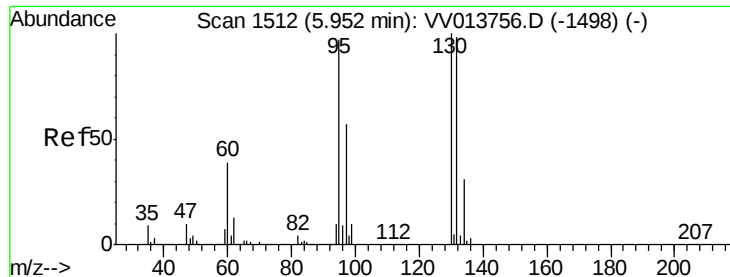
Tgt Ion:117 Resp: 181489
Ion Ratio Lower Upper
117 100
119 95.7 76.8 115.2



#33
Benzene
Concen: 5.279 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion: 78 Resp: 483120

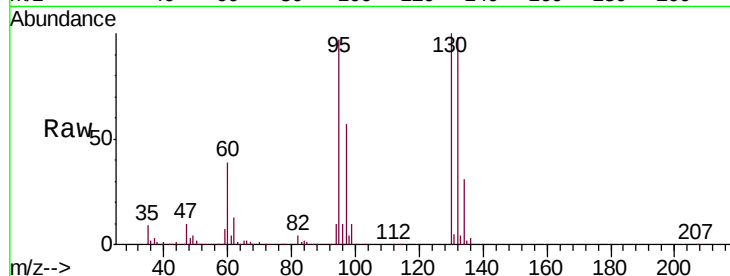




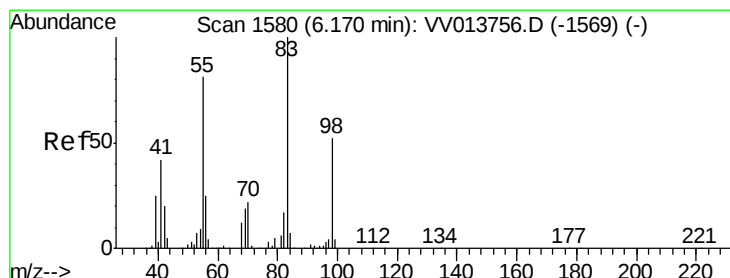
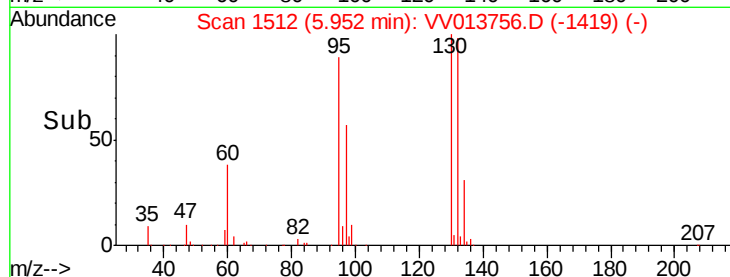
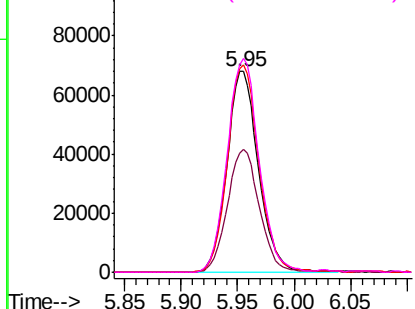
#34
 Trichloroethene
 Concen: 5.225 ug/L
 RT: 5.95 min Scan# 1512
 Delta R.T. -0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion: 95 Resp: 131904
 Ion Ratio Lower Upper
 95 100
 97 59.4 45.6 84.8
 132 101.6 70.5 130.9
 130 103.4 75.9 140.9

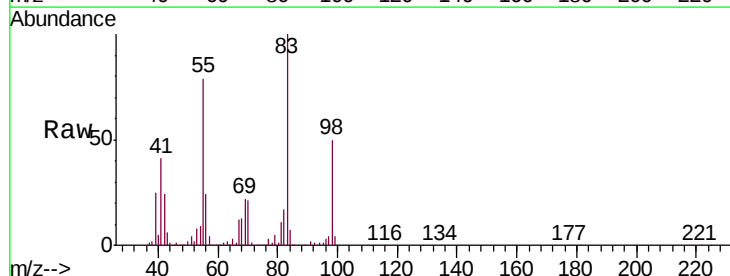


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

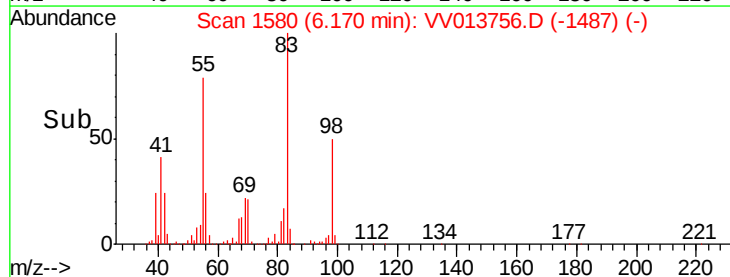
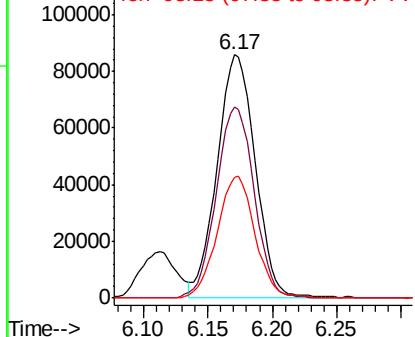


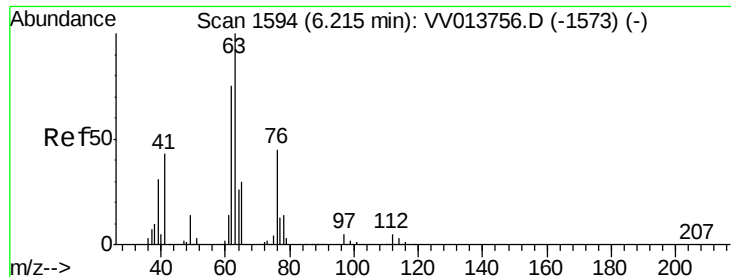
#35
 Methylcyclohexane
 Concen: 5.203 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Tgt Ion: 83 Resp: 175277
 Ion Ratio Lower Upper
 83 100
 55 78.1 60.3 90.5
 98 49.6 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: 5.213 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

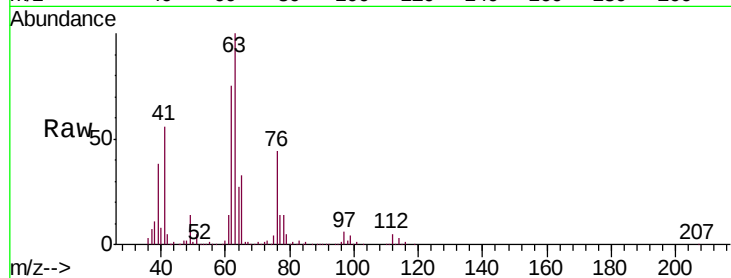
VSTD00548

Tgt Ion: 63 Resp: 122619

Ion Ratio Lower Upper

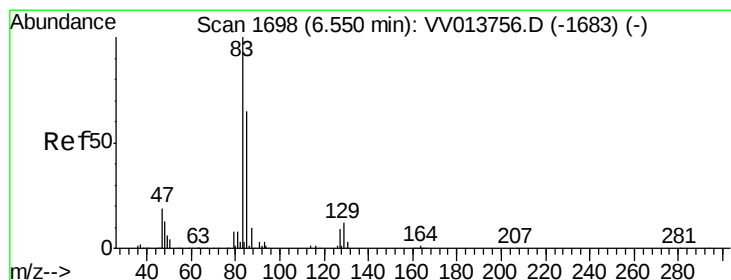
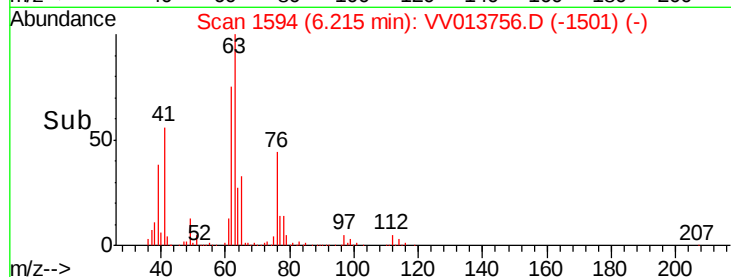
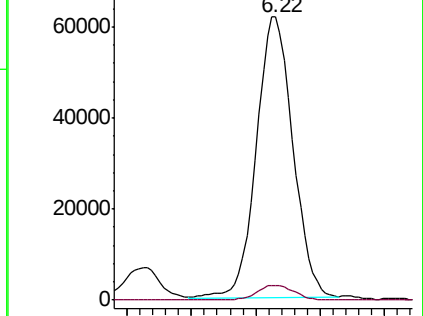
63 100

112 5.4 4.4 6.6



Abundance Ion 63.10 (62.80 to 63.80): VV013756.D (-1573) (-)

Ion 112.10 (111.80 to 112.80): VV013756.D (-1573) (-)



#38

Bromodichloromethane

Concen: 5.305 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

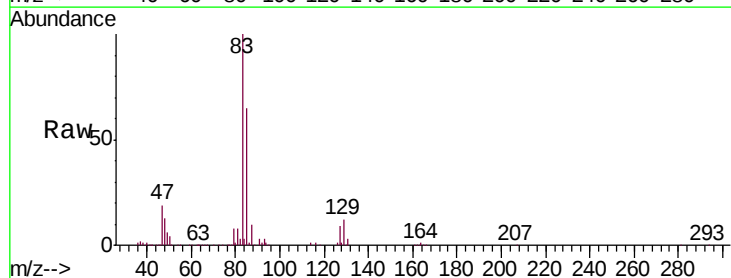
Tgt Ion: 83 Resp: 164653

Ion Ratio Lower Upper

83 100

85 65.0 46.1 85.5

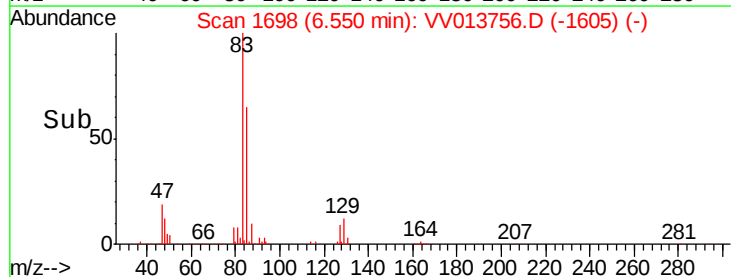
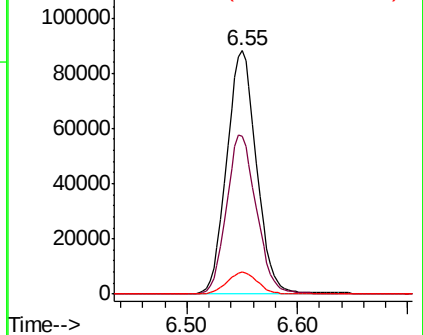
127 9.1 7.5 11.3

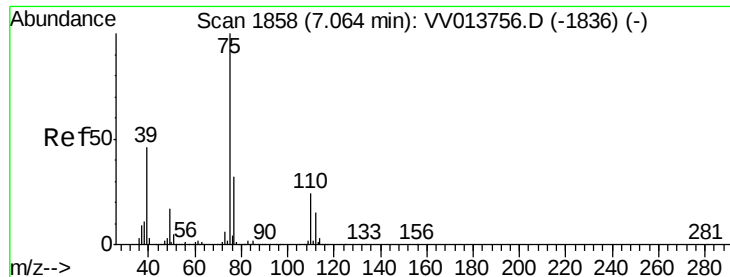


Abundance Ion 82.95 (82.65 to 83.65): VV013756.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV013756.D (-1683) (-)

Ion 126.90 (126.60 to 127.60): VV013756.D (-1683) (-)





#39

cis-1,3-Dichloropropene

Concen: 5.186 ug/L

RT: 7.06 min Scan# 1858

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampled :

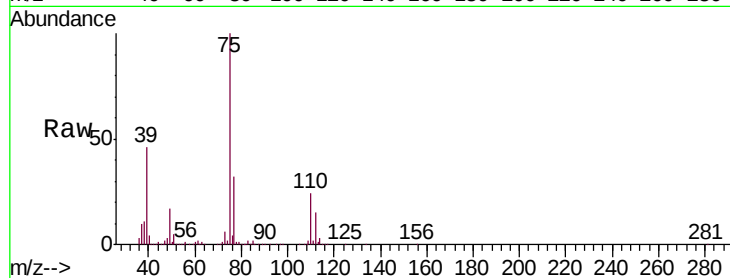
VSTD00548

Tgt Ion: 75 Resp: 173088

Ion Ratio Lower Upper

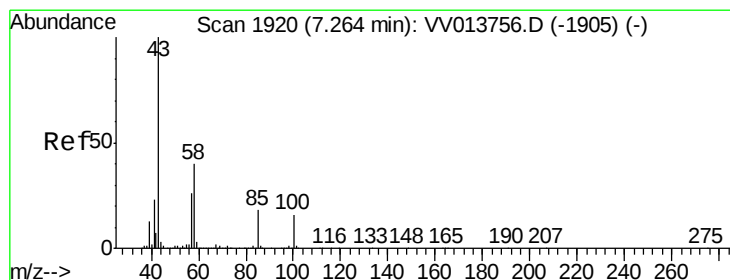
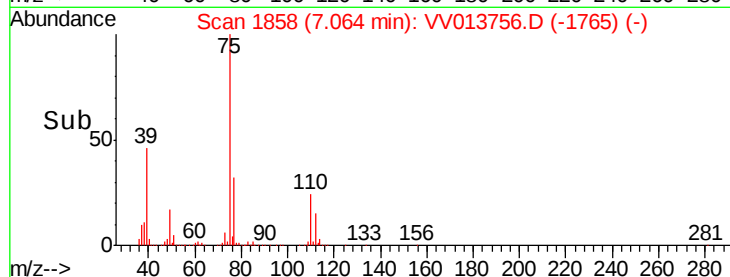
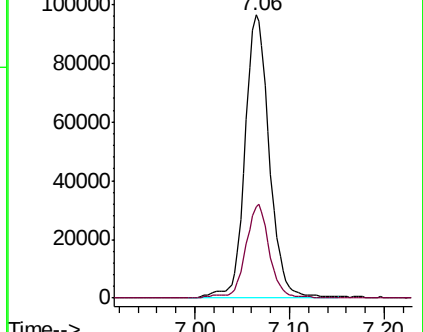
75 100

77 32.3 22.5 41.9



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 49.666 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

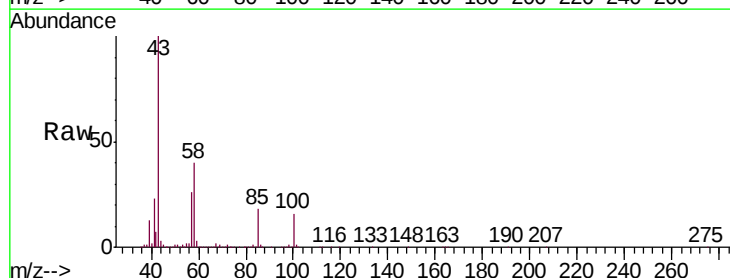
Tgt Ion: 43 Resp: 681634

Ion Ratio Lower Upper

43 100

58 39.7 32.3 48.5

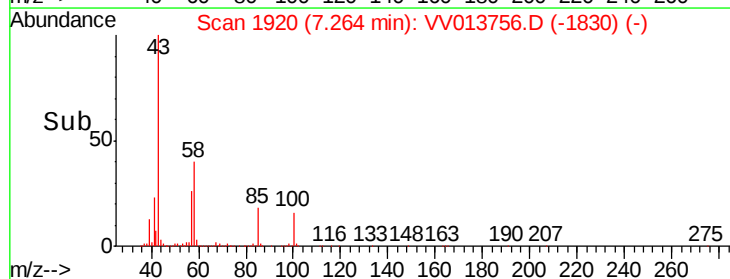
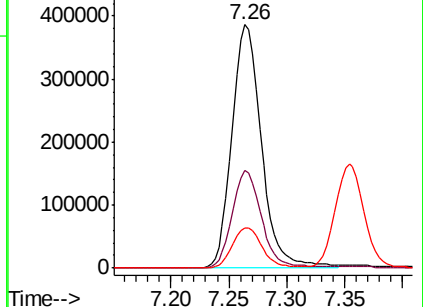
100 16.8 12.7 19.1

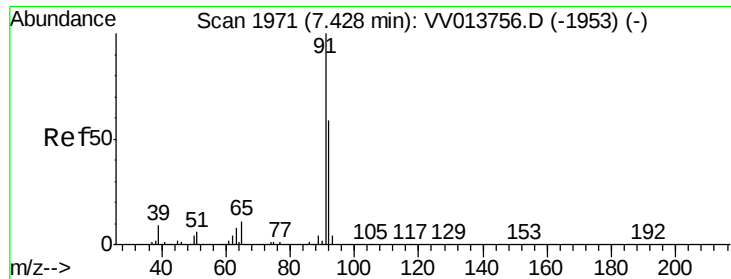


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 5.282 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

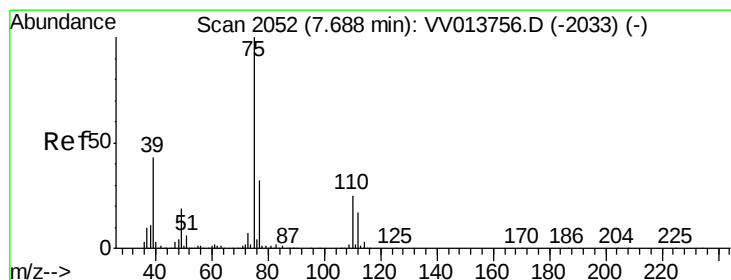
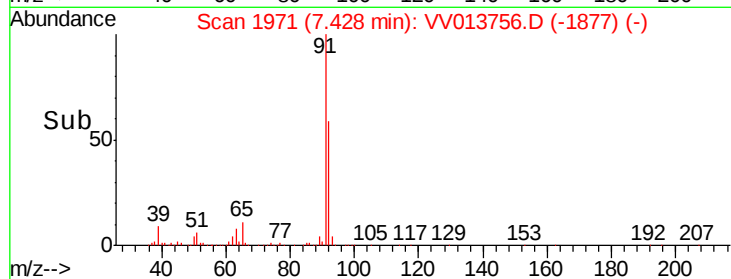
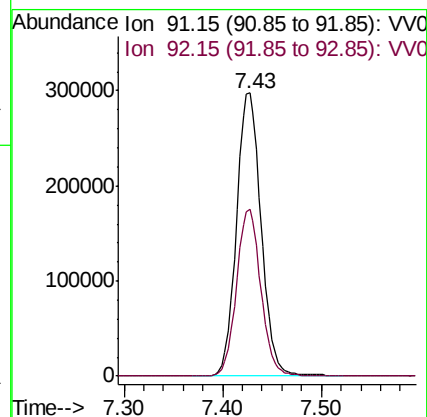
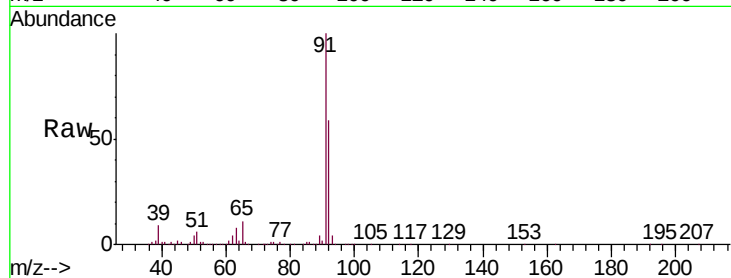
VSTD00548

Tgt Ion: 91 Resp: 518487

Ion Ratio Lower Upper

91 100

92 59.0 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 5.058 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV013756.D

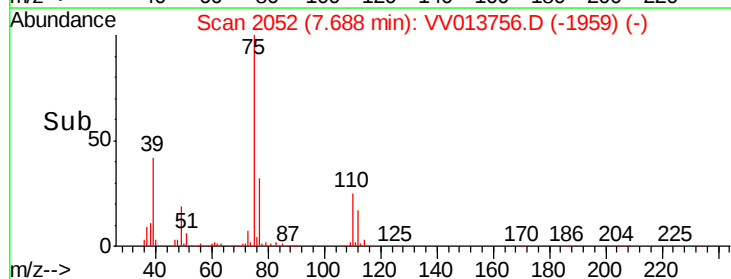
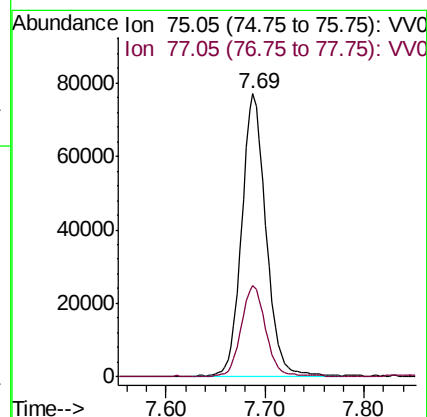
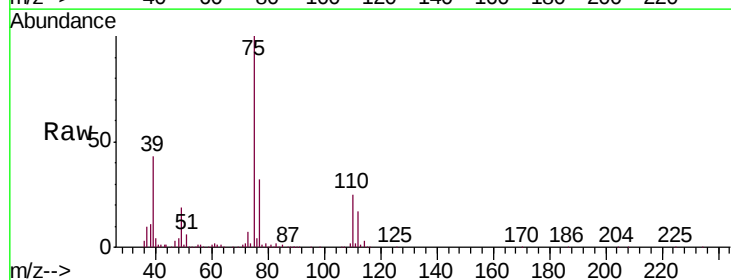
Acq: 25 Nov 2019 10:08

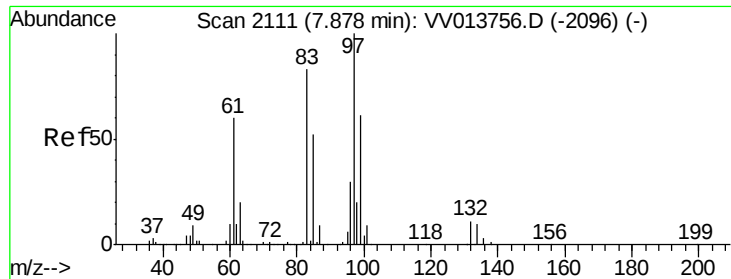
Tgt Ion: 75 Resp: 132128

Ion Ratio Lower Upper

75 100

77 32.1 23.0 42.8

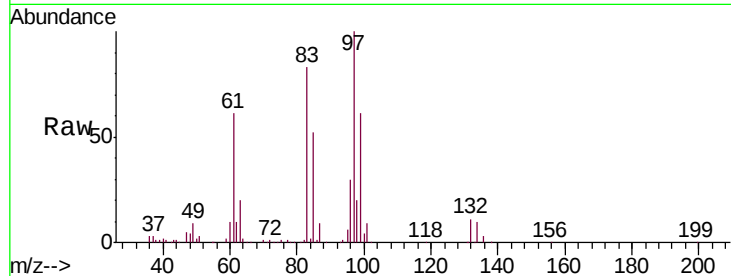




#45
 1,1,2-Trichloroethane
 Concen: 5.185 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion:	97	Resp:	86917
Ion	Ratio	Lower	Upper
97	100		
99	60.5	44.2	82.0
83	83.5	59.7	110.9
85	52.4	38.3	71.1



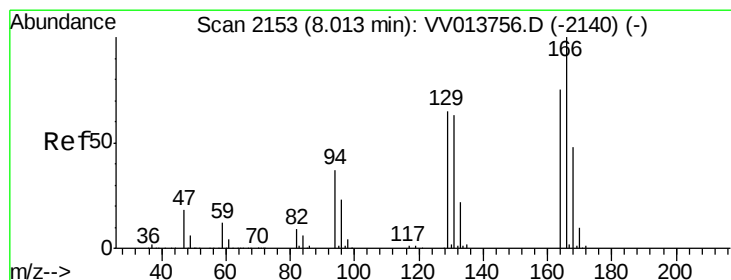
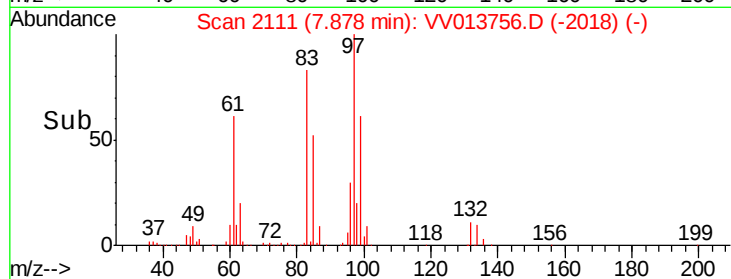
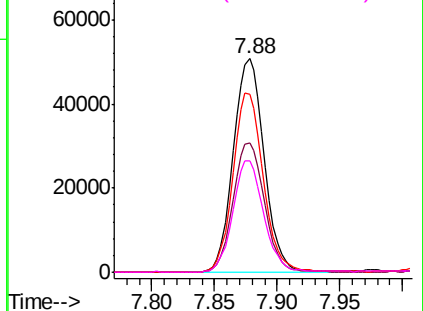
Abundance

Ion 96.95 (96.65 to 97.65): VV013756.D (-2096) (-)

Ion 99.05 (98.75 to 99.75): VV013756.D (-2096) (-)

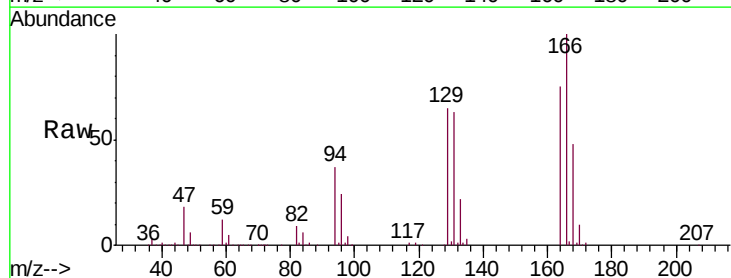
Ion 82.95 (82.65 to 83.65): VV013756.D (-2096) (-)

Ion 85.00 (84.70 to 85.70): VV013756.D (-2096) (-)



#47
 Tetrachloroethene
 Concen: 5.084 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Tgt Ion:	164	Resp:	111457
Ion	Ratio	Lower	Upper
164	100		
129	86.7	60.3	112.1
131	84.3	59.9	111.3
166	133.1	89.1	165.5



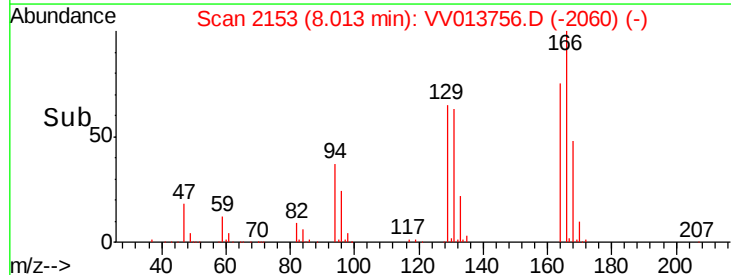
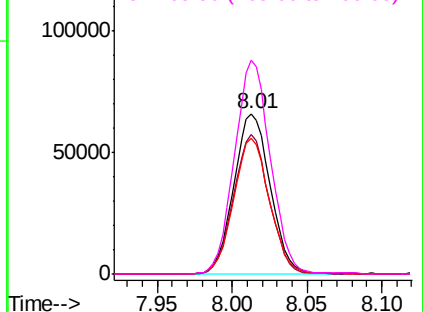
Abundance

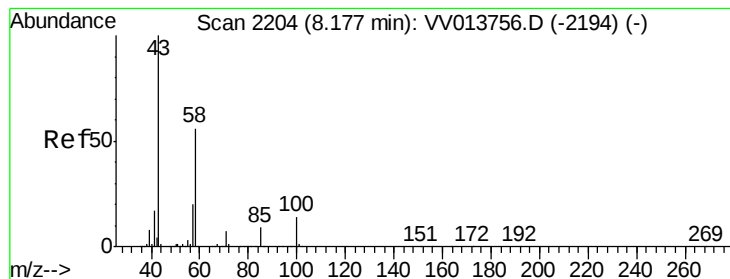
Ion 163.90 (163.60 to 164.60): VV013756.D (-2140) (-)

Ion 128.95 (128.65 to 129.65): VV013756.D (-2140) (-)

Ion 130.95 (130.65 to 131.65): VV013756.D (-2140) (-)

Ion 165.90 (165.60 to 166.60): VV013756.D (-2140) (-)





#48

2-Hexanone

Concen: 47.588 ug/L

RT: 8.18 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

Tgt Ion: 43 Resp: 466183

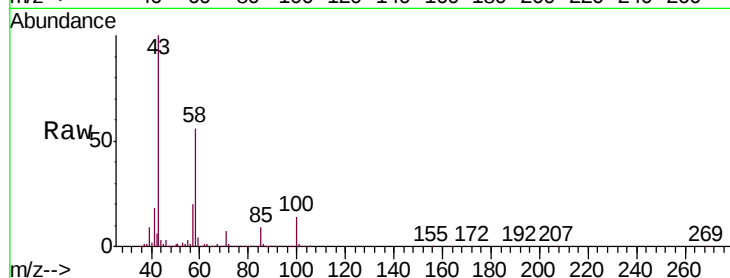
Ion Ratio Lower Upper

43 100

58 53.9 43.2 64.8

57 19.3 15.4 23.2

100 13.1 10.4 15.6

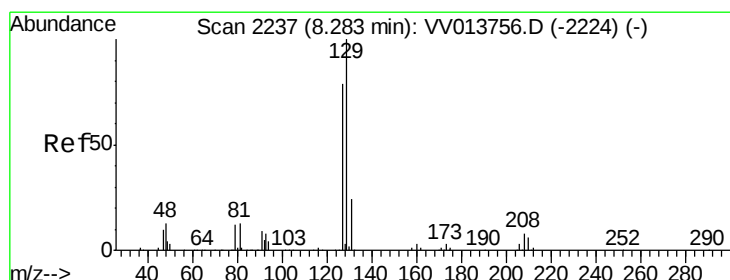
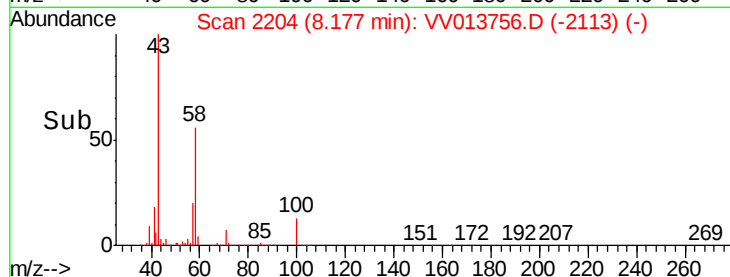
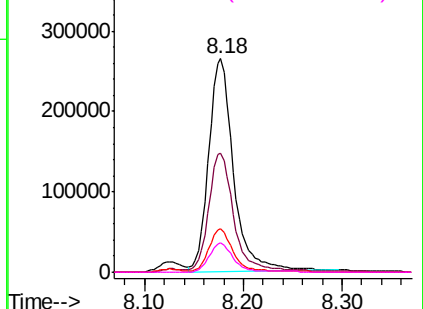


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0



#49

Dibromochloromethane

Concen: 5.174 ug/L

RT: 8.28 min Scan# 2237

Delta R.T. -0.00 min

Lab File: VV013756.D

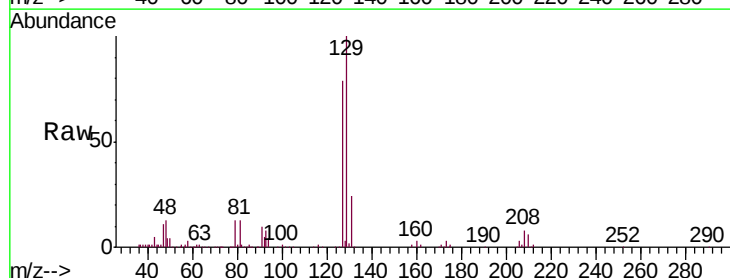
Acq: 25 Nov 2019 10:08

Tgt Ion: 129 Resp: 111242

Ion Ratio Lower Upper

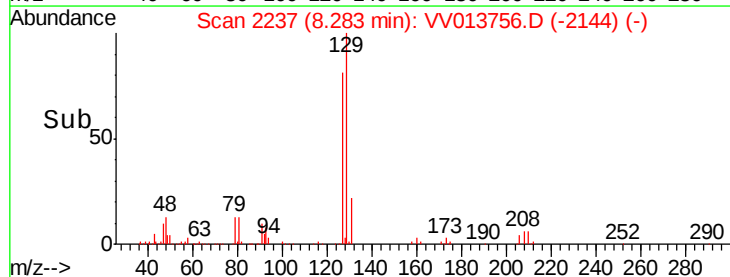
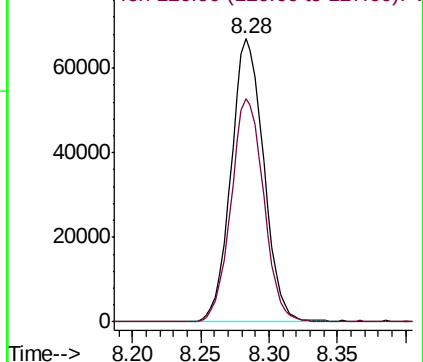
129 100

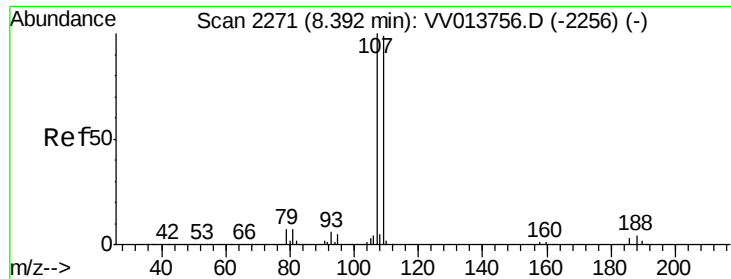
127 78.9 55.7 103.5



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

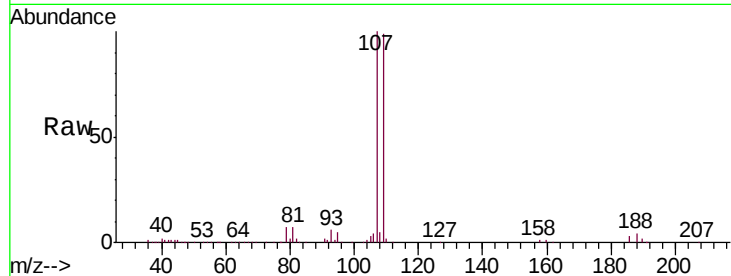




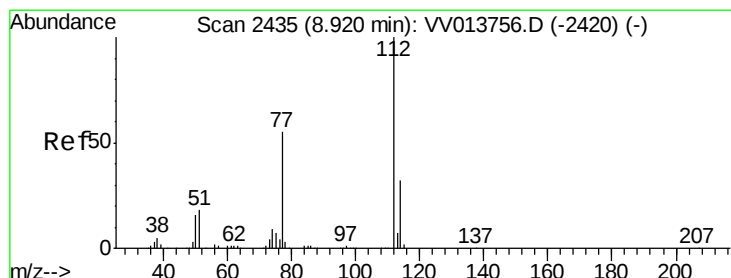
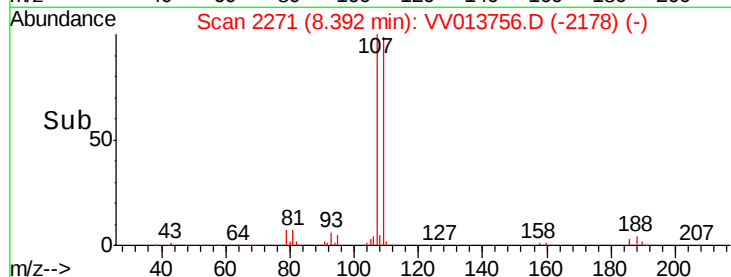
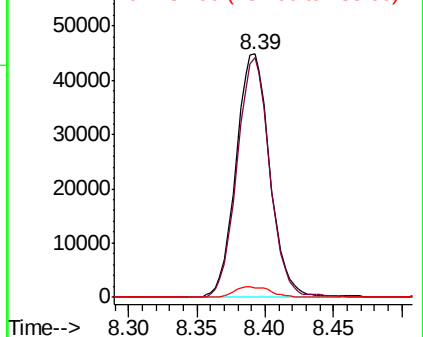
#50
1,2-Dibromoethane
Concen: 5.080 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Tgt Ion:107 Resp: 77112
Ion Ratio Lower Upper
107 100
109 98.7 65.2 121.0
188 4.1 4.2 6.2#

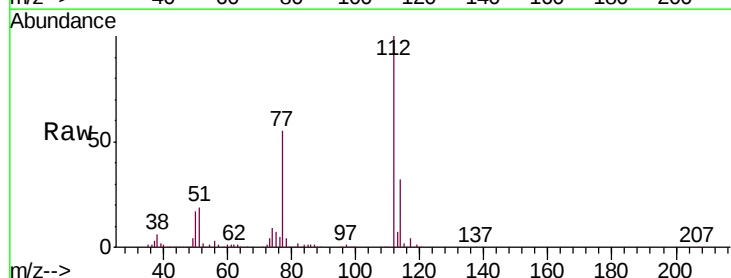


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

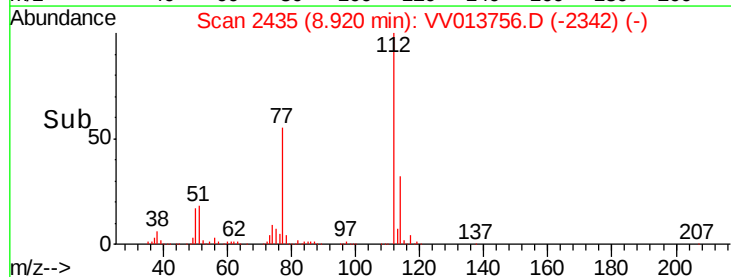
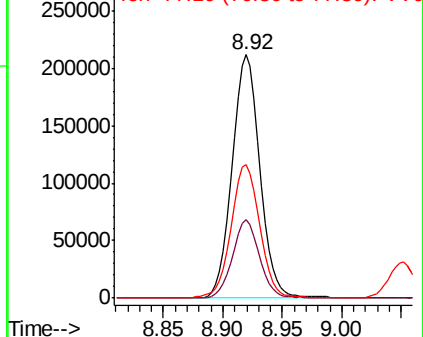


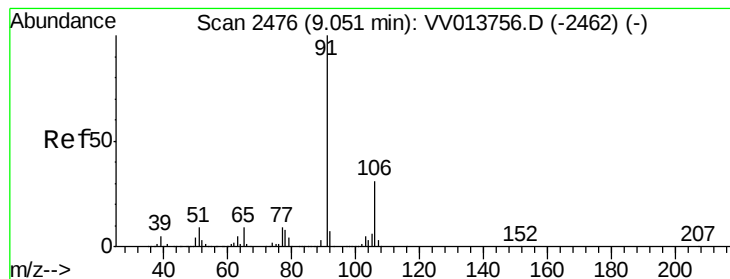
#51
Chlorobenzene
Concen: 5.011 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion:112 Resp: 342276
Ion Ratio Lower Upper
112 100
114 32.1 21.8 40.6
77 55.0 44.2 66.4



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.082 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

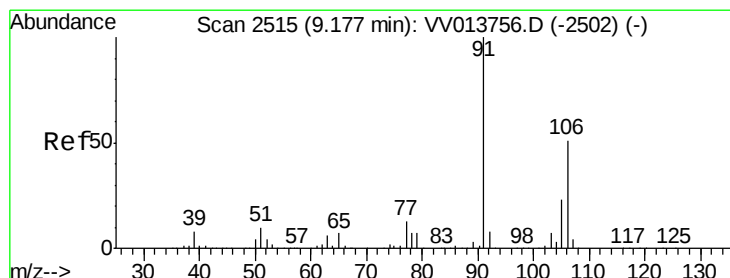
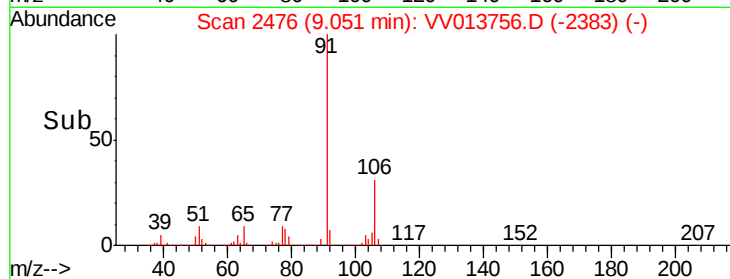
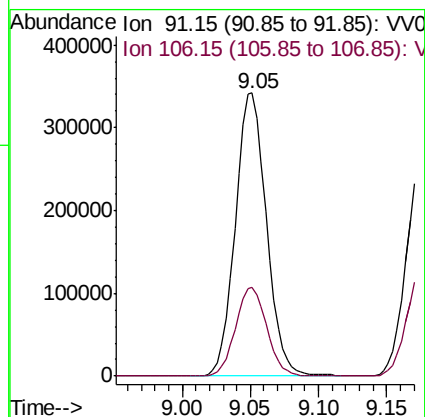
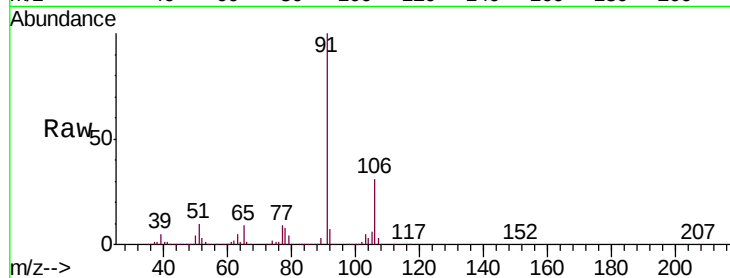
VSTD00548

Tgt Ion: 91 Resp: 541931

Ion Ratio Lower Upper

91 100

106 31.2 22.1 41.1



#53

m,p-xylene

Concen: 5.209 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013756.D

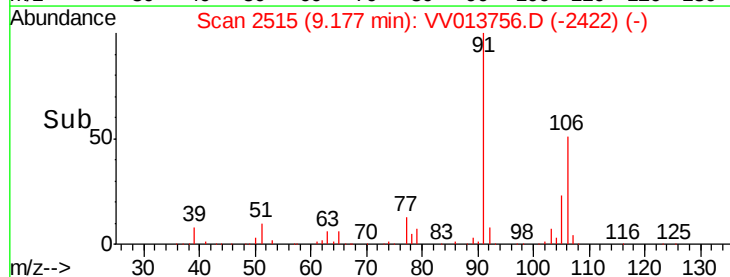
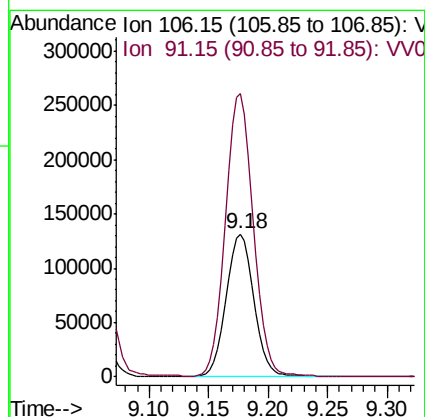
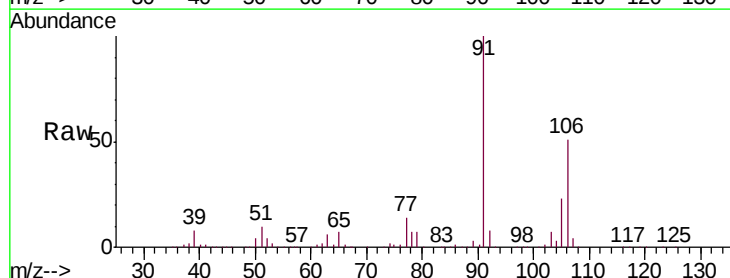
Acq: 25 Nov 2019 10:08

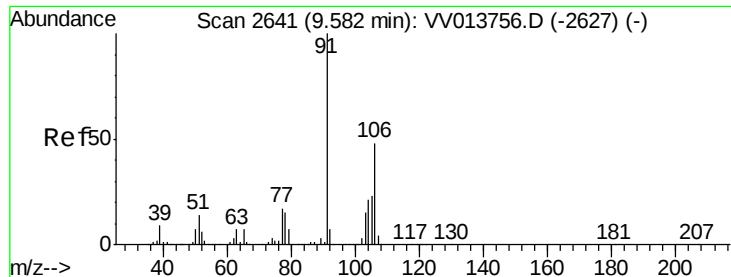
Tgt Ion: 106 Resp: 211747

Ion Ratio Lower Upper

106 100

91 197.7 139.9 259.9

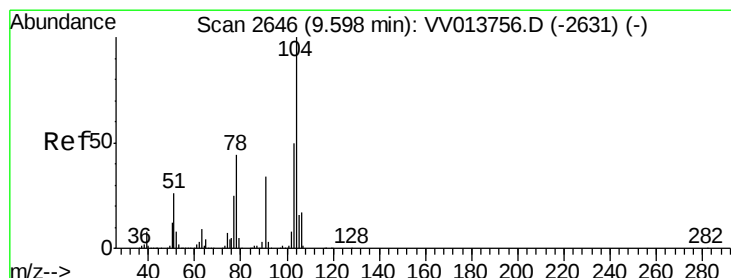
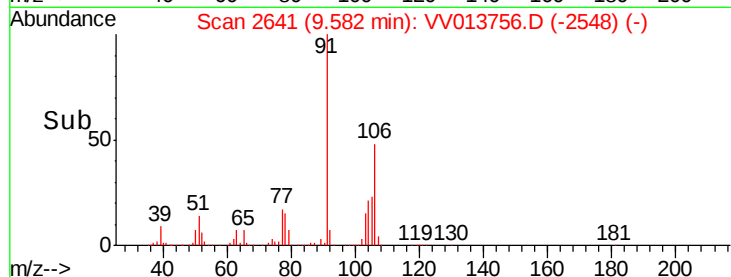
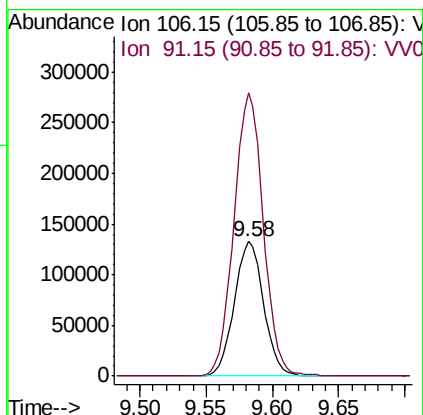
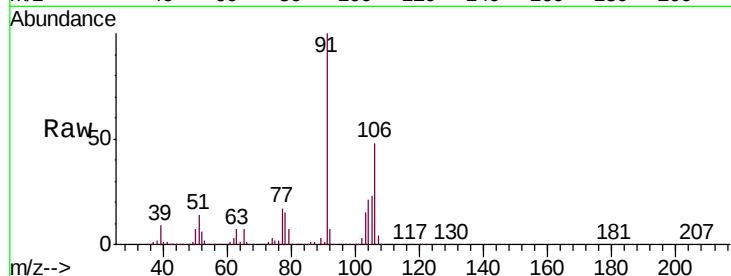




#54
o-xylene
Concen: 5.154 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

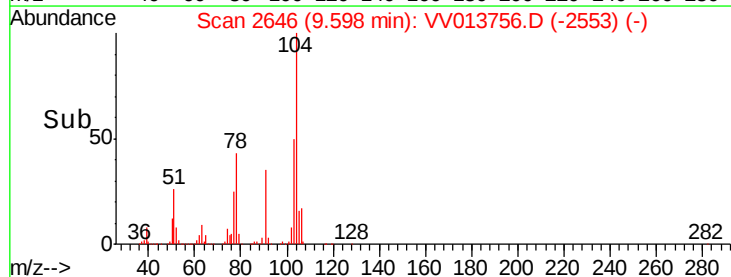
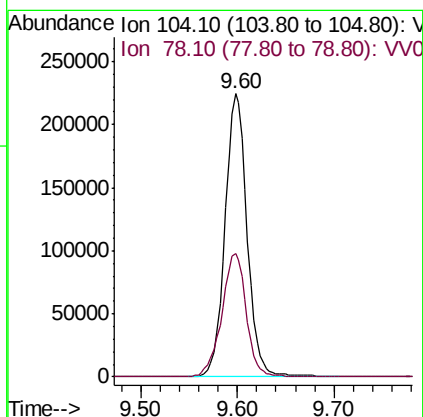
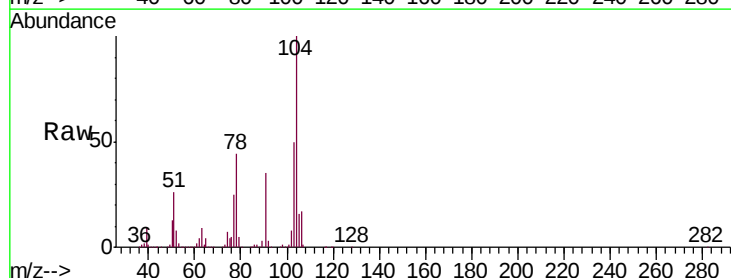
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

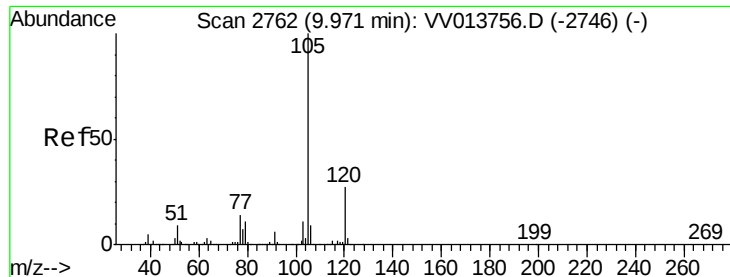
Tgt Ion:106 Resp: 204564
Ion Ratio Lower Upper
106 100
91 210.0 145.5 270.3



#55
Styrene
Concen: 5.170 ug/L
RT: 9.60 min Scan# 2646
Delta R.T. -0.00 min
Lab File: VV013756.D
Acq: 25 Nov 2019 10:08

Tgt Ion:104 Resp: 354279
Ion Ratio Lower Upper
104 100
78 43.5 31.0 57.6





#56

Isopropylbenzene

Concen: 5.246 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

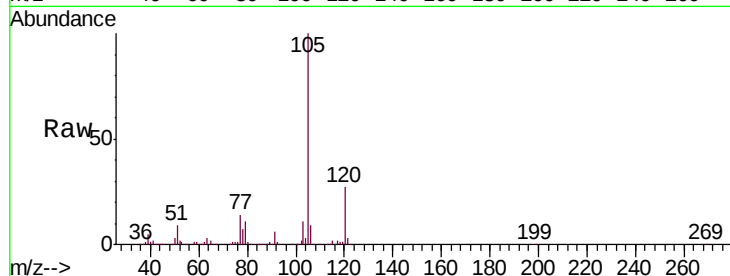
Tgt Ion: 105 Resp: 567436

Ion Ratio Lower Upper

105 100

120 26.1 21.3 31.9

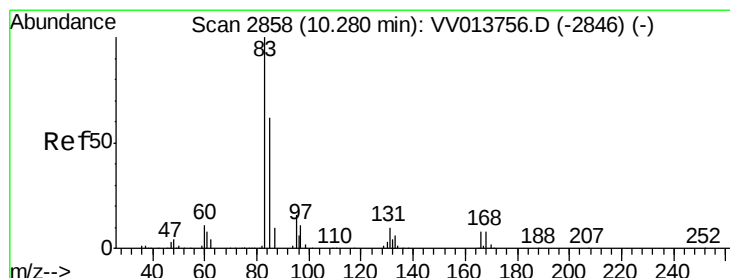
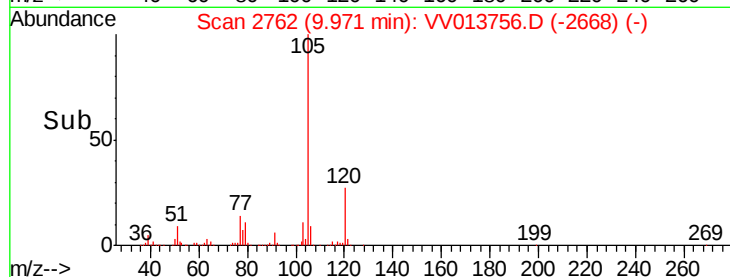
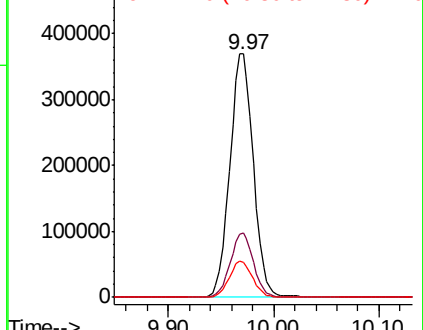
77 14.5 12.1 18.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.093 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

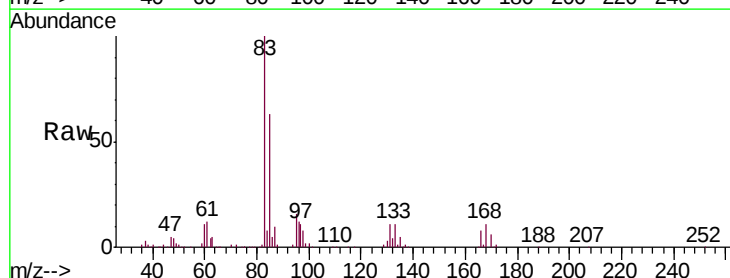
Tgt Ion: 83 Resp: 93804

Ion Ratio Lower Upper

83 100

85 63.1 45.1 83.7

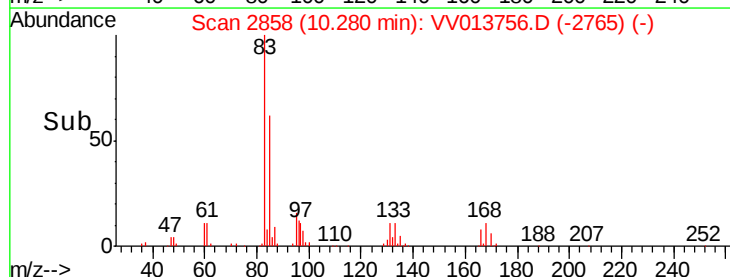
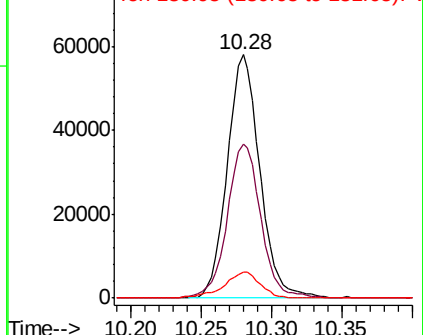
131 10.6 9.3 13.9

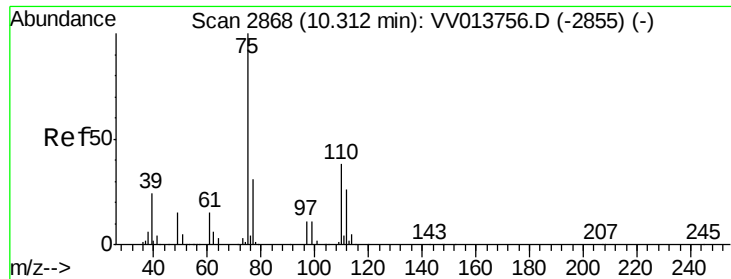


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.030 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

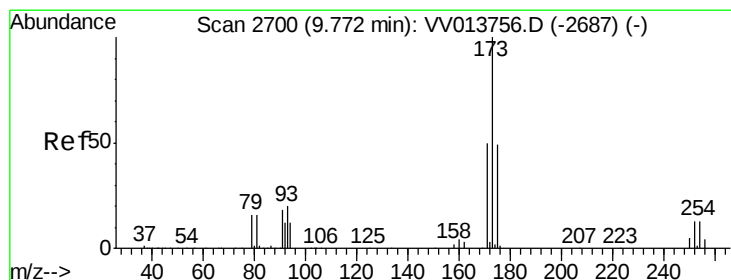
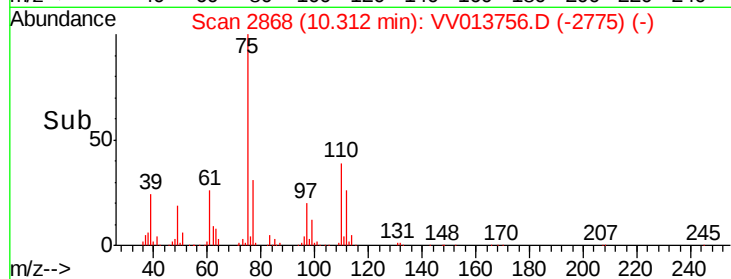
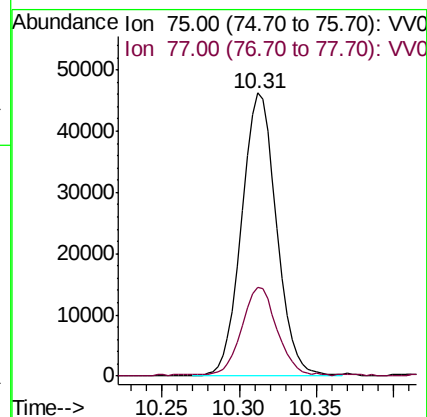
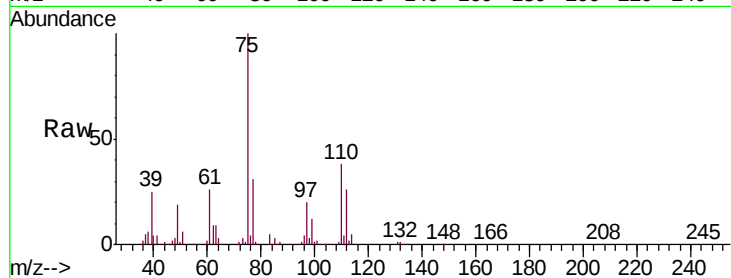
VSTD00548

Tgt Ion: 75 Resp: 72622

Ion Ratio Lower Upper

75 100

77 31.0 25.7 38.5



#61

Bromoform

Concen: 5.223 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

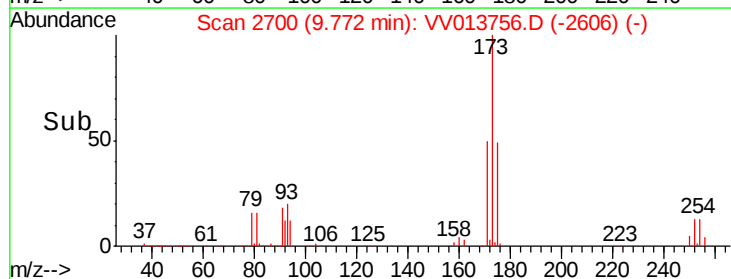
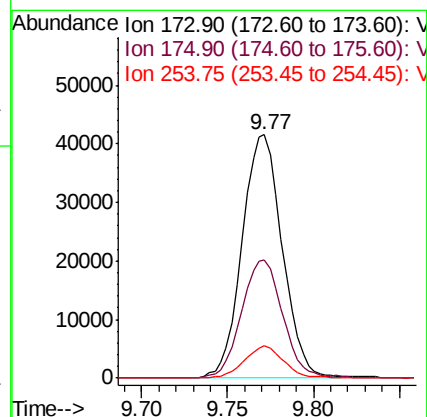
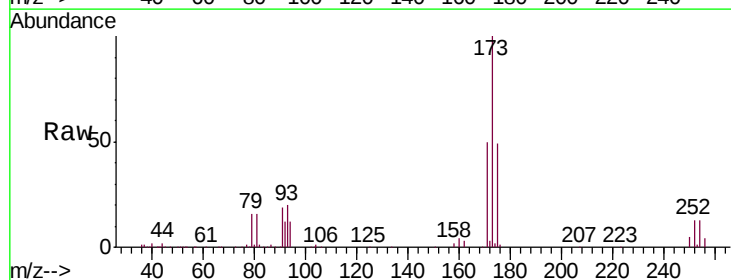
Tgt Ion: 173 Resp: 67527

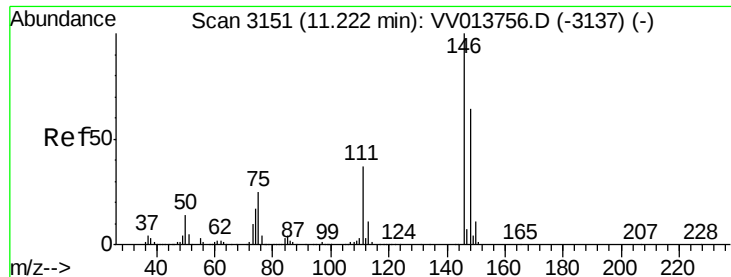
Ion Ratio Lower Upper

173 100

175 49.9 39.1 58.7

254 12.8 10.4 15.6





#62

1,3-Dichlorobenzene

Concen: 5.220 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

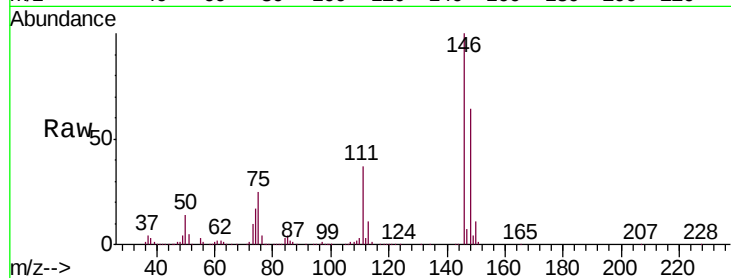
Tgt Ion:146 Resp: 311569

Ion Ratio Lower Upper

146 100

111 37.1 25.6 47.6

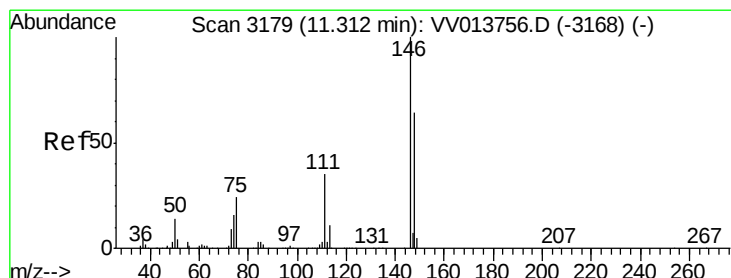
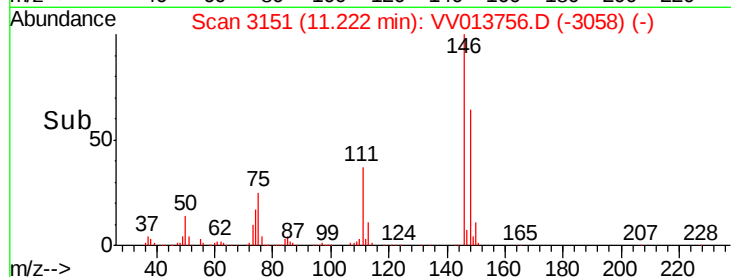
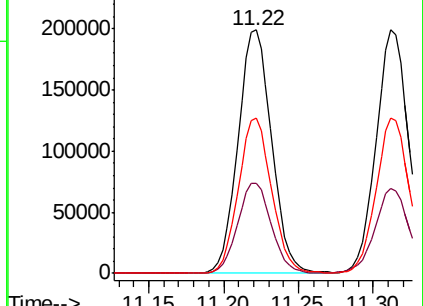
148 63.8 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.985 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

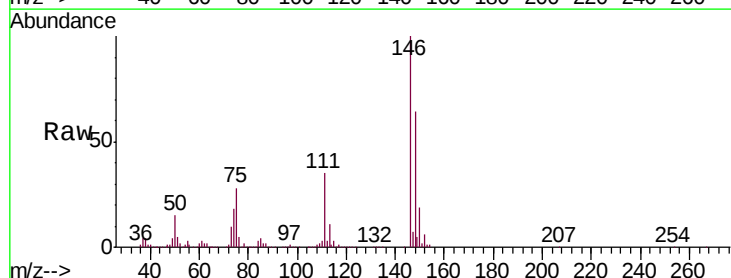
Tgt Ion:146 Resp: 302828

Ion Ratio Lower Upper

146 100

111 34.9 25.0 46.4

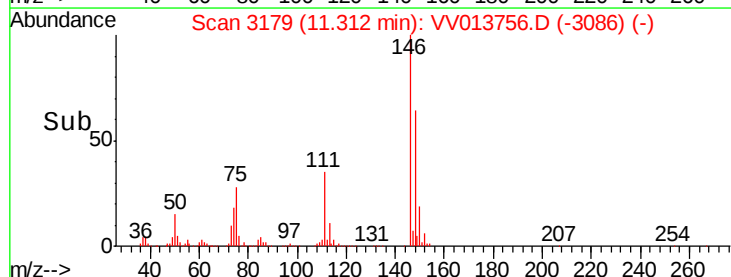
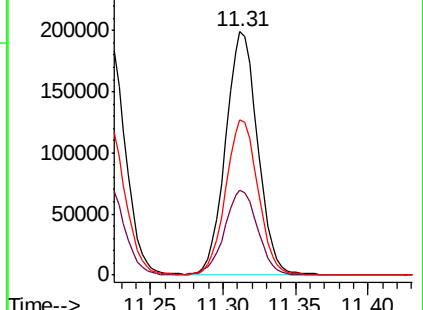
148 63.8 45.4 84.2

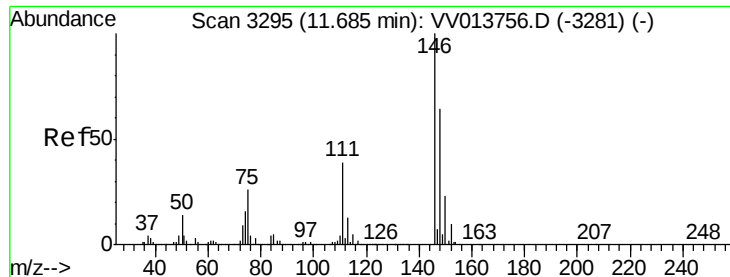


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.108 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

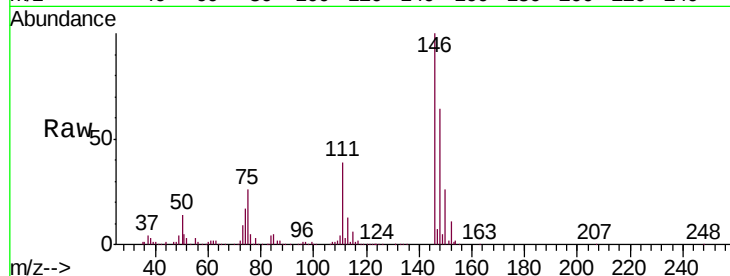
Tgt Ion:146 Resp: 282942

Ion Ratio Lower Upper

146 100

111 39.2 31.3 46.9

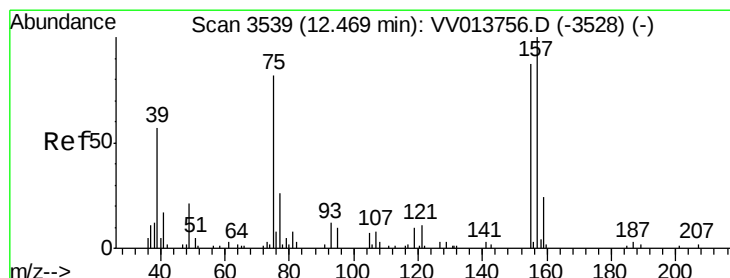
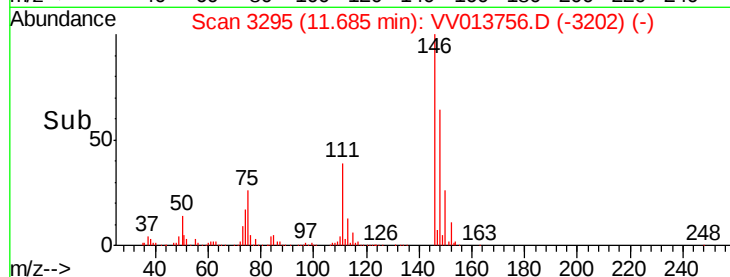
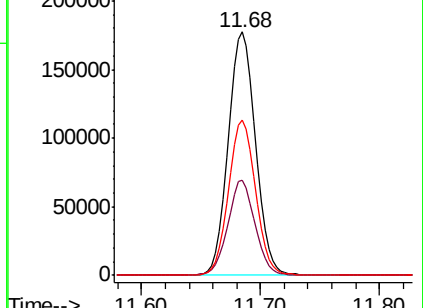
148 63.8 52.2 78.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.553 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

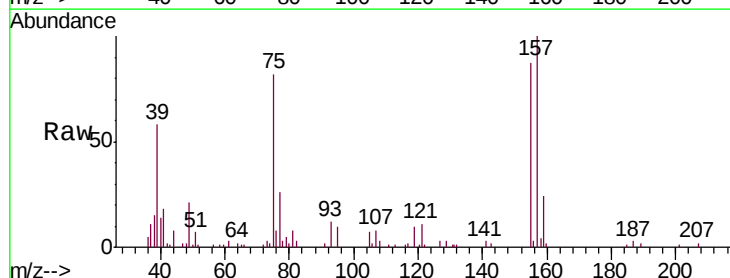
Tgt Ion: 75 Resp: 14657

Ion Ratio Lower Upper

75 100

155 105.7 73.4 110.0

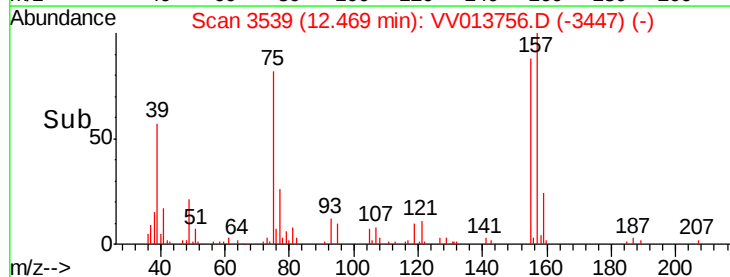
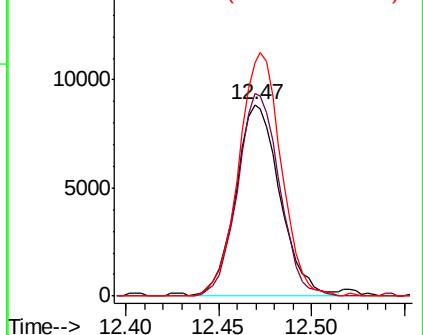
157 121.6 98.7 148.1

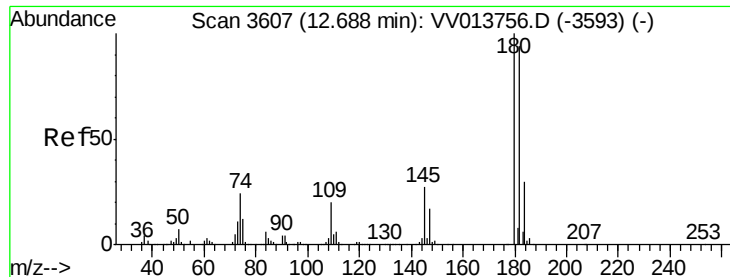


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

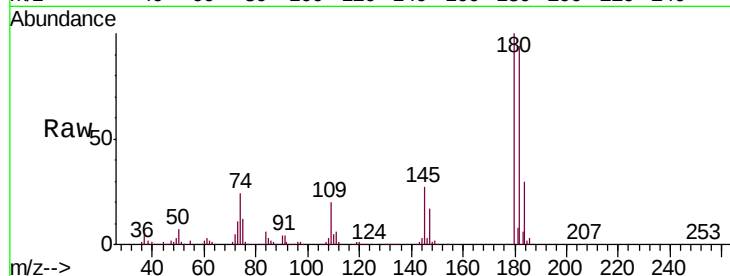




#67
 1,3,5-Trichlorobenzene
 Concen: 5.108 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion:	180	Resp:	257501
Ion	Ratio	Lower	Upper
180	100		
182	95.1	74.8	112.2
184	30.3	23.2	34.8
145	26.8	21.3	31.9



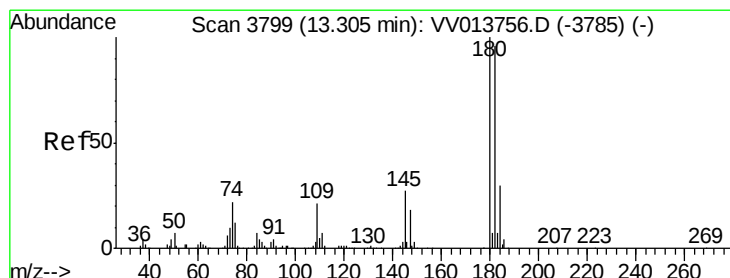
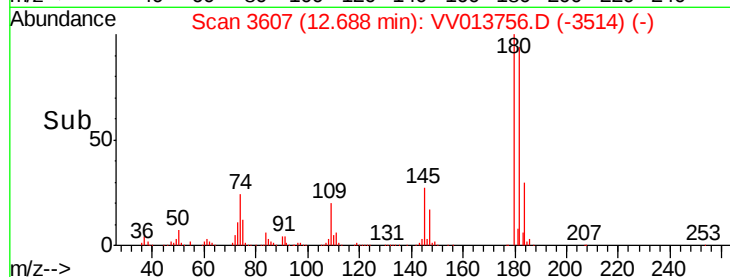
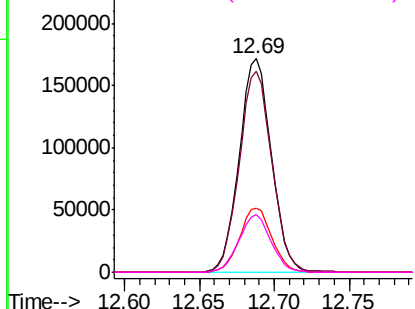
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

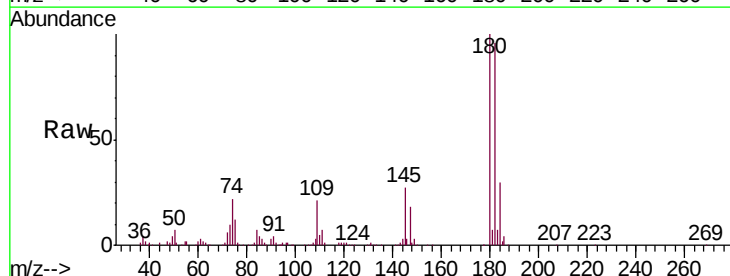
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.974 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013756.D
 Acq: 25 Nov 2019 10:08

Tgt Ion:	180	Resp:	205641
Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.4
145	27.0	21.0	31.6

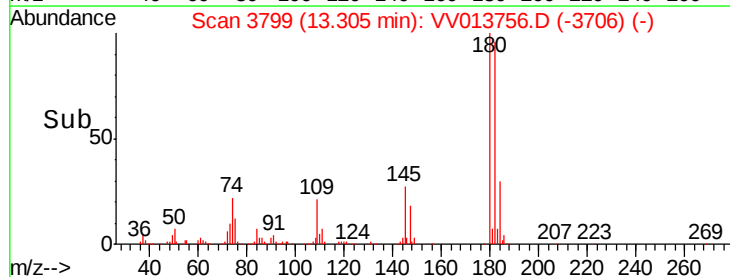
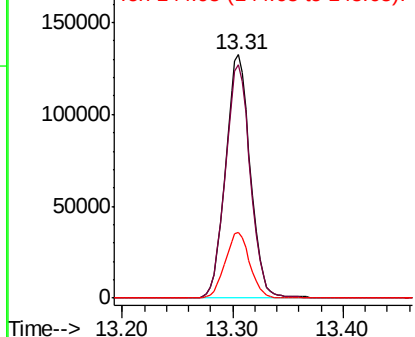


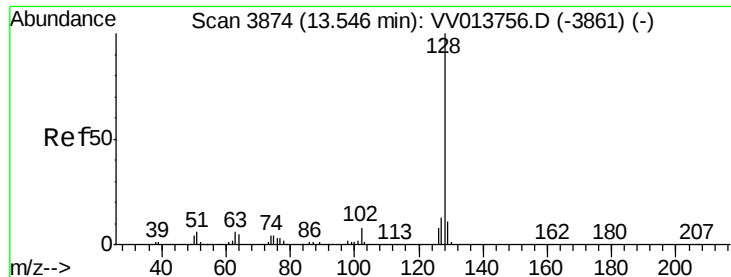
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.641 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

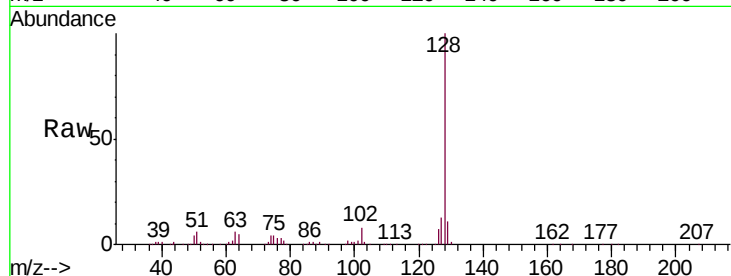
Tgt Ion:128 Resp: 261262

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

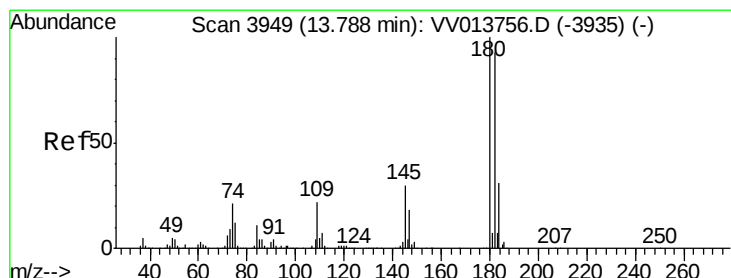
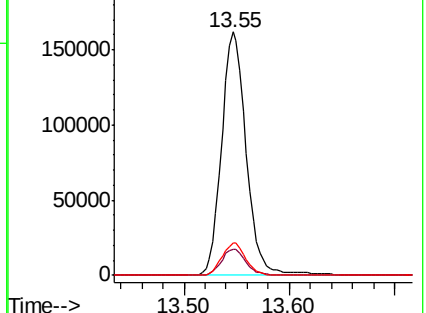
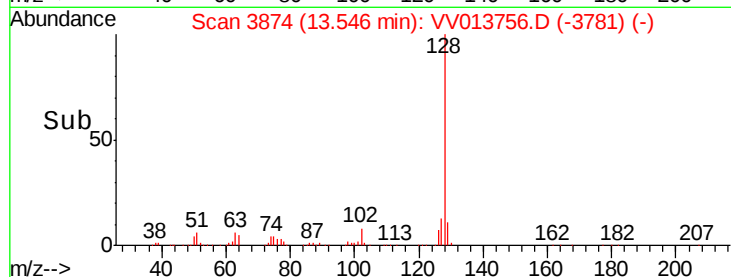
127 12.8 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.178 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013756.D

Acq: 25 Nov 2019 10:08

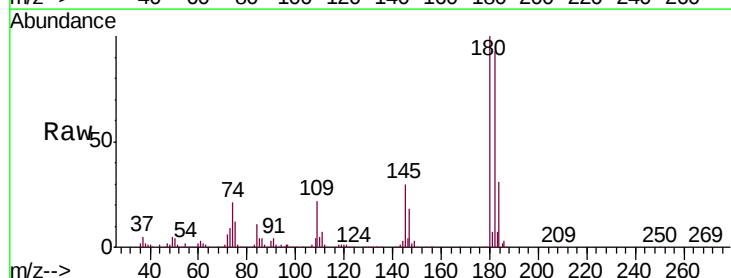
Tgt Ion:180 Resp: 195031

Ion Ratio Lower Upper

180 100

182 94.4 78.5 117.7

145 28.7 23.8 35.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

