

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111419\
 Data File : VV013614.D
 Acq On : 14 Nov 2019 09:22
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 15 02:40:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 14 13:41:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	372699	5.00	ug/L	-0.03
28) Chlorobenzene-d5	8.91	117	326261	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	179681	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.34	65	116516	4.87	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.40%
7) Chloroethane-d5	1.61	69	95969	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.60%
11) 1,1-Dichloroethene-d2	2.15	63	203542	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.40%
20) 2-Butanone-d5	4.02	46	243241	56.74	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.48%
24) Chloroform-d	4.42	84	211869	5.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.20%
26) 1,2-Dichloroethane-d4	5.09	65	95977	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
32) Benzene-d6	5.10	84	397455	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.14	67	148486	5.51	ug/L	-0.03
Spiked Amount	5.000	Range	60 - 140	Recovery	=	110.20%
41) Toluene-d8	7.40	98	431772	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.40%
43) trans-1,3-Dichloropropene-	7.69	79	50915	5.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.40%
46) 2-Hexanone-d5	8.16	63	204688	51.14	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.28%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	101786	5.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	159701	5.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.17	85	185429	5.348	ug/L	99
3) Chloromethane	1.28	50	160264	5.120	ug/L	99
5) Vinyl chloride	1.35	62	149256	4.897	ug/L	99
6) Bromomethane	1.56	94	86136	5.123	ug/L	99
8) Chloroethane	1.62	64	84569	5.122	ug/L	99
9) Trichlorofluoromethane	1.79	101	211804	5.159	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.16	101	120176	5.155	ug/L	99
12) 1,1-Dichloroethene	2.16	96	110356	5.094	ug/L	97
13) Acetone	2.28	43	154281	55.655	ug/L #	63
14) Carbon disulfide	2.34	76	311564	4.974	ug/L	100
15) Methyl Acetate	2.51	43	43725	5.478	ug/L	94
16) Methylene chloride	2.57	84	117169	4.976	ug/L	98
17) Methyl tert-butyl Ether	2.85	73	252795	4.985	ug/L	98
18) trans-1,2-Dichloroethene	2.82	96	121984	5.260	ug/L	97
19) 1,1-Dichloroethane	3.25	63	209277	5.045	ug/L	99
21) 2-Butanone	4.11	43	282324	55.019	ug/L	97
22) cis-1,2-Dichloroethene	3.98	96	130417	5.125	ug/L #	98

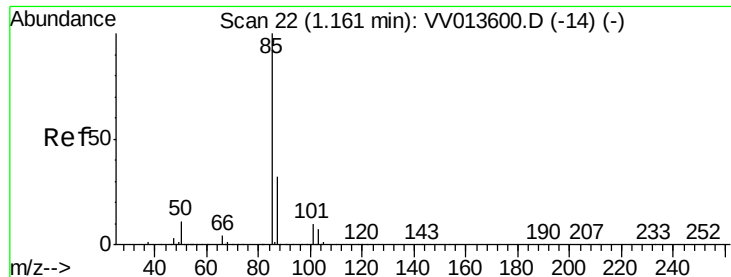
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111419\
 Data File : VV013614.D
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 14 13:41:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.32	128	58499	5.182	ug/L	96
25) Chloroform	4.45	83	241960	4.661	ug/L	100
27) 1,2-Dichloroethane	5.19	62	126464	4.430	ug/L	100
29) 1,1,1-Trichloroethane	4.67	97	195560	5.556	ug/L	98
30) Cyclohexane	4.72	56	188319	5.386	ug/L	97
31) Carbon tetrachloride	4.87	117	175317	5.552	ug/L	99
33) Benzene	5.14	78	460759	4.834	ug/L	100
34) Trichloroethene	5.96	95	148038	5.533	ug/L	98
35) Methylcyclohexane	6.18	83	208584	5.365	ug/L	97
37) 1,2-Dichloropropane	6.24	63	136341	5.539	ug/L #	96
38) Bromodichloromethane	6.58	83	174101	5.171	ug/L	97
39) cis-1,3-Dichloropropene	7.11	75	175443	5.155	ug/L	98
40) 4-Methyl-2-pentanone	7.32	43	757077	55.001	ug/L	99
42) Toluene	7.47	91	579227	5.595	ug/L	99
44) trans-1,3-Dichloropropene	7.72	75	138586	5.322	ug/L	96
45) 1,1,2-Trichloroethane	7.91	97	94146	5.336	ug/L	98
47) Tetrachloroethene	8.04	164	130057	5.344	ug/L	98
48) 2-Hexanone	8.21	43	555896	57.402	ug/L	100
49) Dibromochloromethane	8.31	129	117745	5.312	ug/L	99
50) 1,2-Dibromoethane	8.42	107	84887	5.266	ug/L	97
51) Chlorobenzene	8.94	112	351583	5.182	ug/L	100
52) Ethylbenzene	9.07	91	573606	5.287	ug/L	99
53) m,p-xylene	9.19	106	223339	5.404	ug/L	95
54) o-xylene	9.59	106	217464	5.632	ug/L	95
55) Styrene	9.61	104	392490	5.833	ug/L	98
56) Isopropylbenzene	9.98	105	582325	5.618	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	103873	5.363	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	82385	5.495	ug/L	99
61) Bromoform	9.78	173	72804	5.396	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	306421	5.284	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	306848	5.168	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	277478	5.176	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	16822	5.128	ug/L	82
67) 1,3,5-Trichlorobenzene	12.69	180	244890	5.207	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	175811	4.835	ug/L	99
69) Naphthalene	13.55	128	211126	4.598	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	169016	4.999	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.348 ug/L

RT: 1.17 min Scan# 25

Delta R.T. 0.01 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

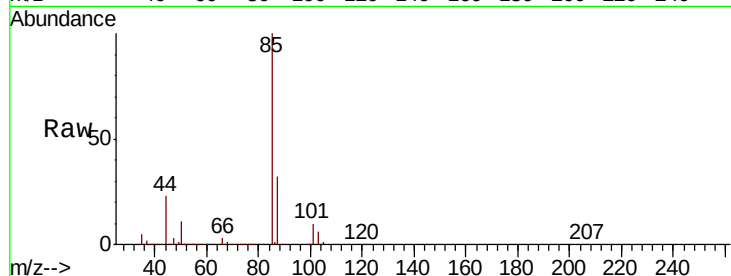
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 185429

Ion Ratio Lower Upper

85 100

87 32.6 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.17

200000

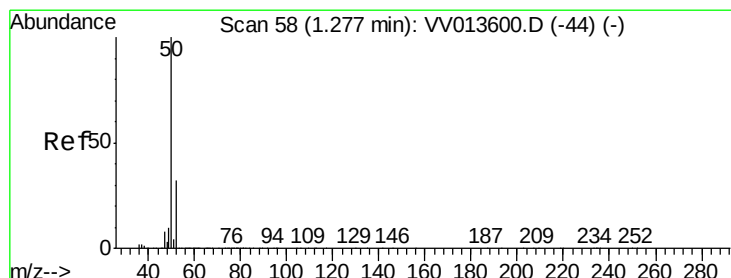
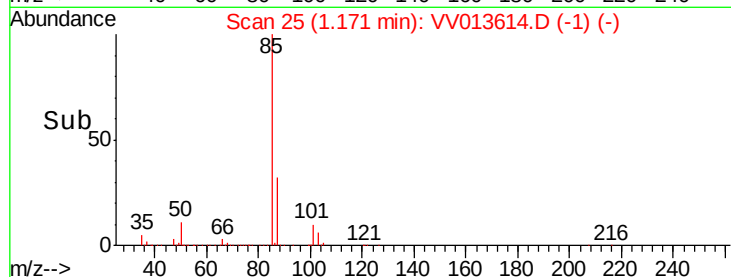
150000

100000

50000

0

Time--> 1.10 1.15 1.20 1.25



#3

Chloromethane

Concen: 5.120 ug/L

RT: 1.28 min Scan# 59

Delta R.T. 0.00 min

Lab File: VV013614.D

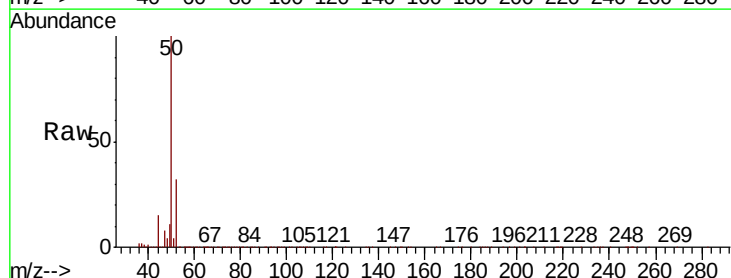
Acq: 14 Nov 2019 09:22

Tgt Ion: 50 Resp: 160264

Ion Ratio Lower Upper

50 100

52 31.9 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.28

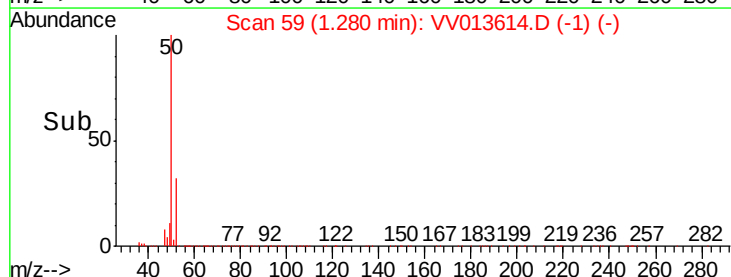
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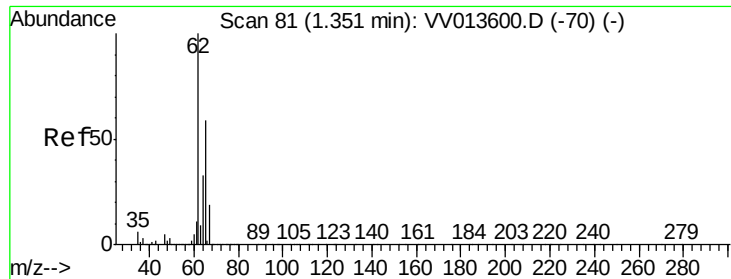
100000

50000

0

Time--> 1.20 1.25 1.30 1.35





#5

Vinyl chloride

Concen: 4.897 ug/L

RT: 1.35 min Scan# 81

Delta R.T. 0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

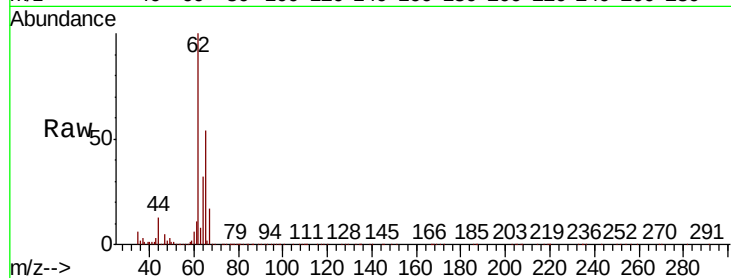
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 149256

Ion Ratio Lower Upper

62 100

64 32.3 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.35

150000

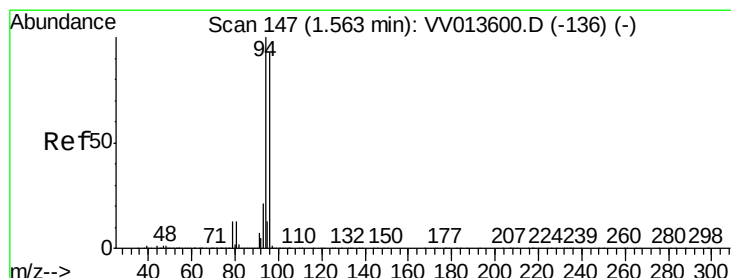
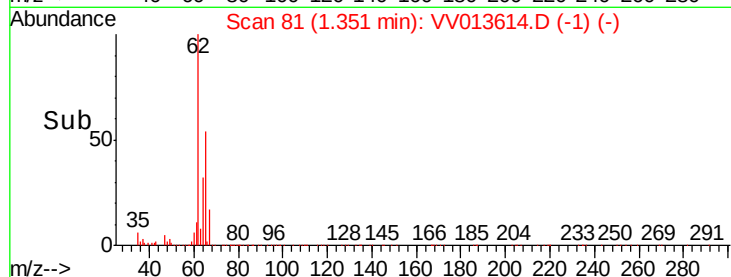
100000

50000

0

Time-->

1.30 1.35 1.40 1.45



#6

Bromomethane

Concen: 5.123 ug/L

RT: 1.56 min Scan# 146

Delta R.T. -0.00 min

Lab File: VV013614.D

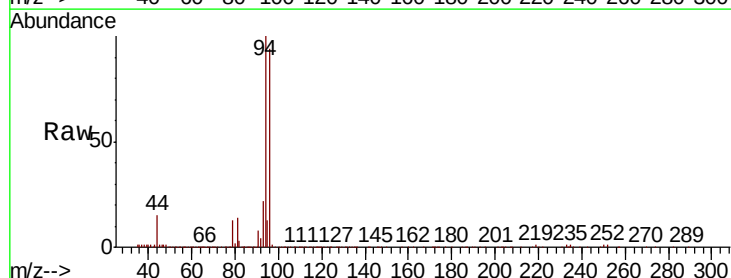
Acq: 14 Nov 2019 09:22

Tgt Ion: 94 Resp: 86136

Ion Ratio Lower Upper

94 100

96 94.4 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.56

80000

60000

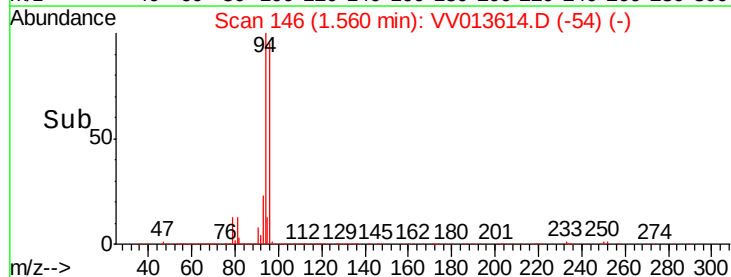
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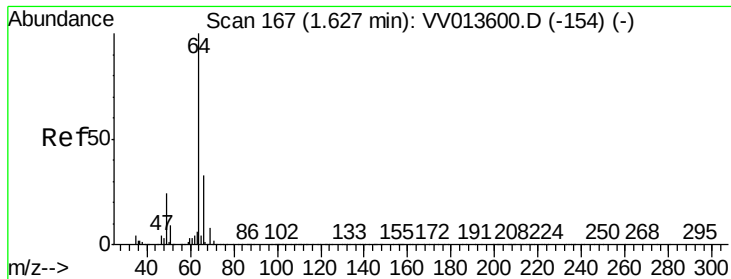
20000

0

Time-->

1.50 1.55 1.60 1.65





#8

Chloroethane

Concen: 5.122 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

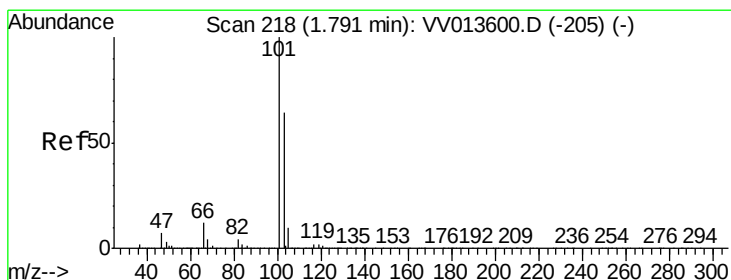
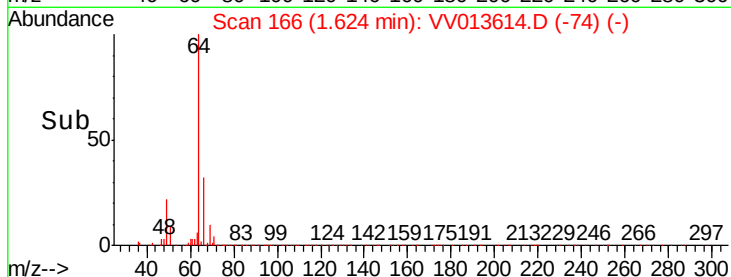
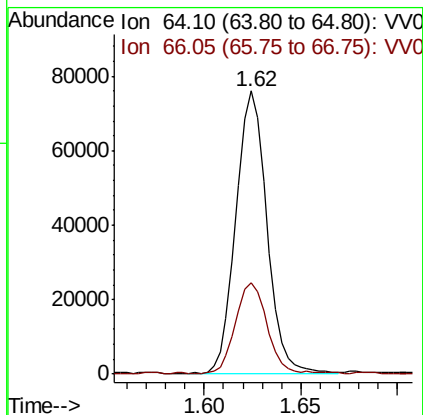
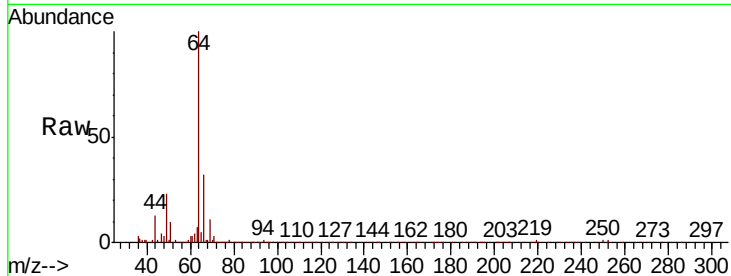
ClientSampleId :

Tot Ion: 64 Resp: 84569

Ion Ratio Lower Upper

64 100

66 32.4 23.0 42.8



#9

Trichlorofluoromethane

Concen: 5.159 ug/L

RT: 1.79 min Scan# 218

Delta R.T. 0.00 min

Lab File: VV013614.D

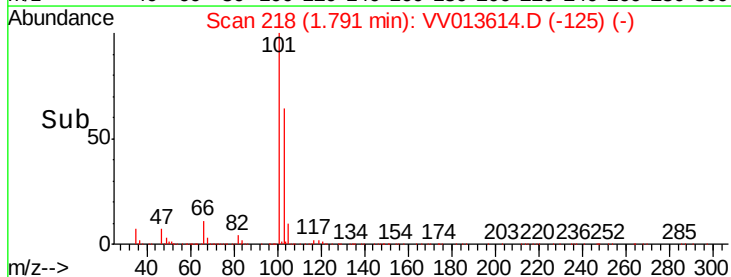
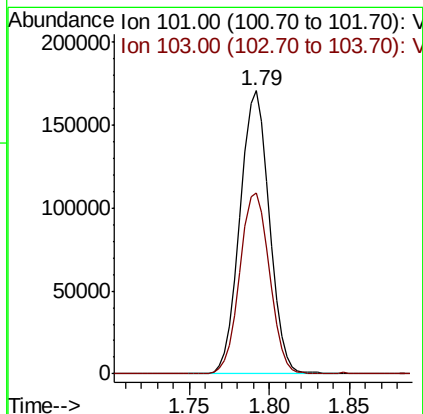
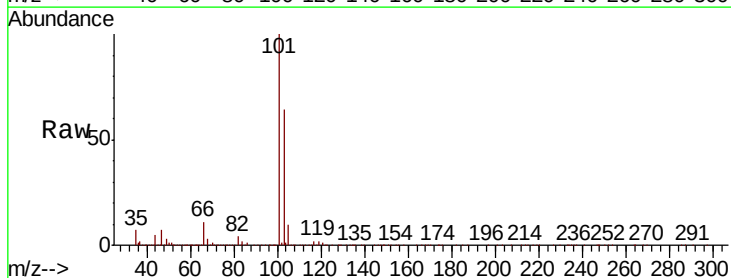
Acq: 14 Nov 2019 09:22

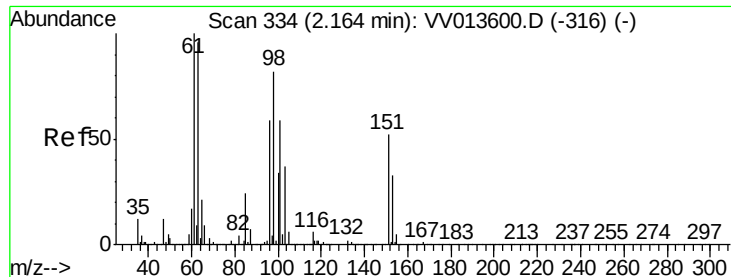
Tgt Ion: 101 Resp: 211804

Ion Ratio Lower Upper

101 100

103 64.9 52.6 78.8





#10

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

Concen: 5.155 ug/L

RT: 2.16 min Scan# 334

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

ClientSampleId :

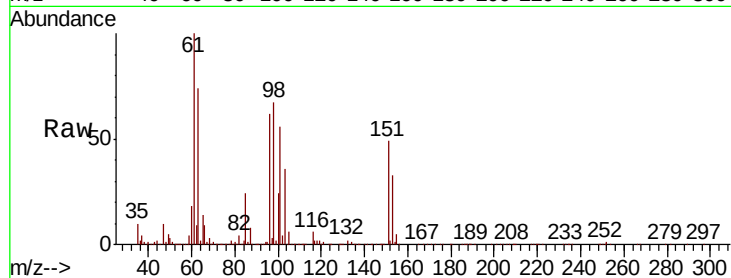
Tot Ion:101 Resp: 120176

Ion Ratio Lower Upper

101 100

85 42.3 33.1 49.7

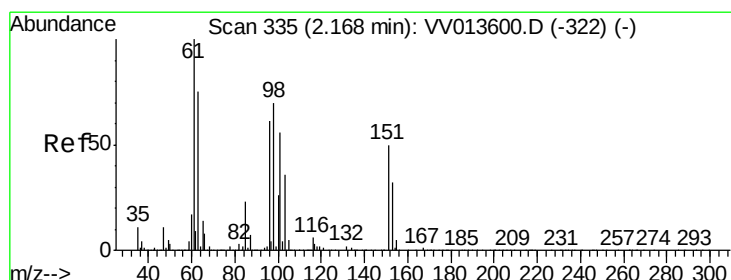
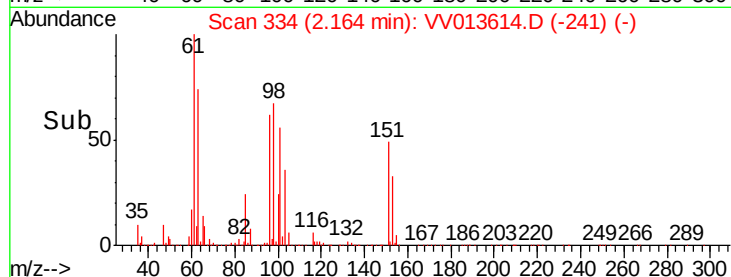
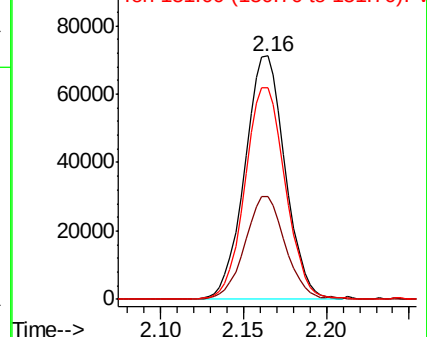
151 87.2 69.5 104.3



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: 5.094 ug/L

RT: 2.16 min Scan# 334

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

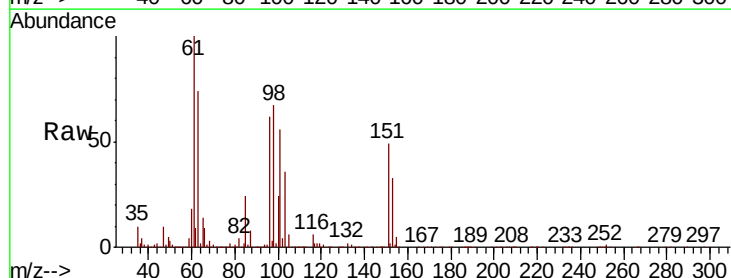
Tgt Ion: 96 Resp: 110356

Ion Ratio Lower Upper

96 100

61 162.0 115.6 214.6

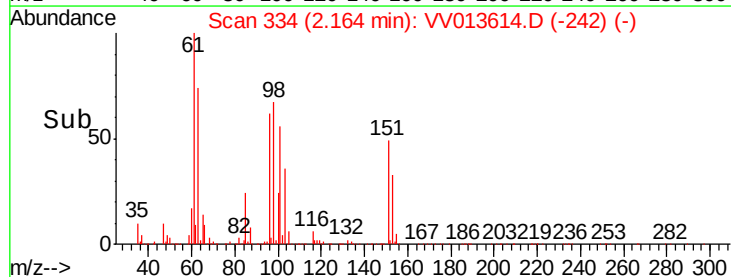
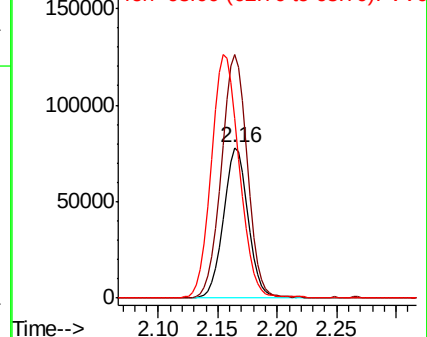
63 119.2 87.2 162.0

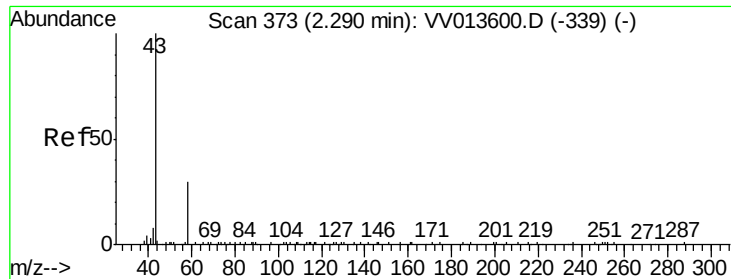


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 55.655 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

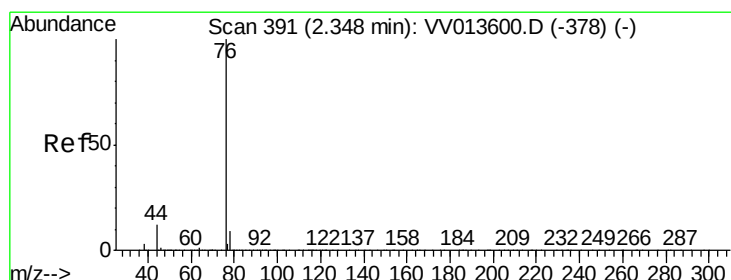
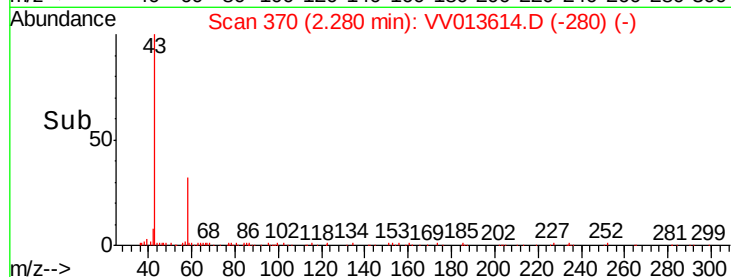
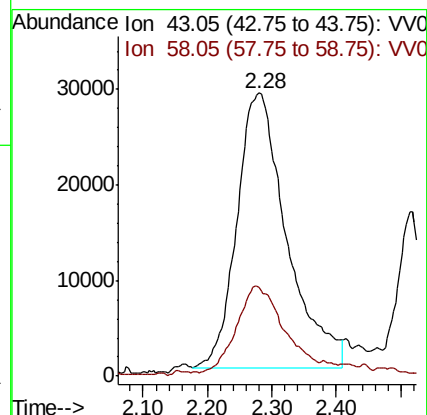
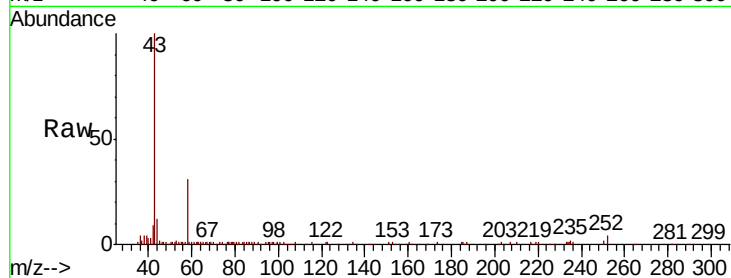
ClientSampleId :

Tot Ion: 43 Resp: 154281

Ion Ratio Lower Upper

43 100

58 29.7 0.0 28.8#



#14

Carbon disulfide

Concen: 4.974 ug/L

RT: 2.34 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV013614.D

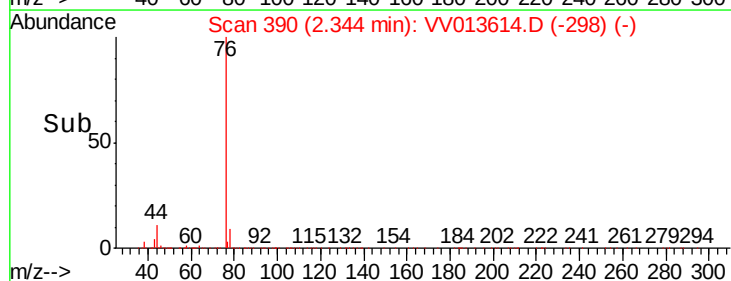
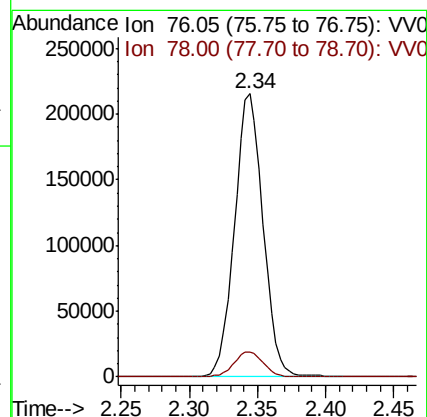
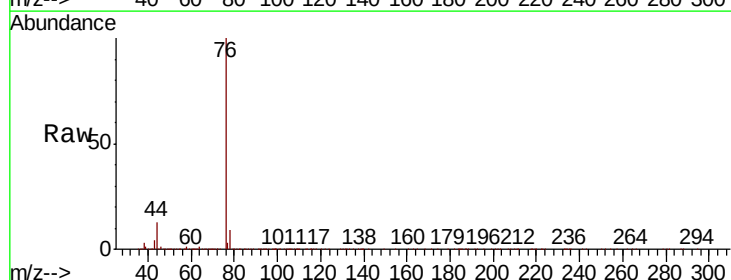
Acq: 14 Nov 2019 09:22

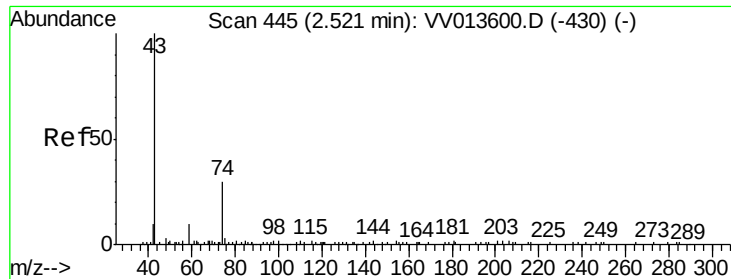
Tgt Ion: 76 Resp: 311564

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.6

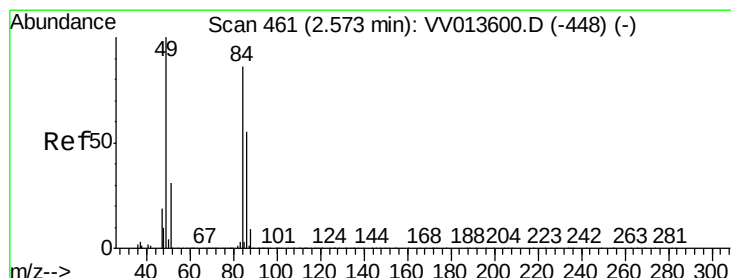
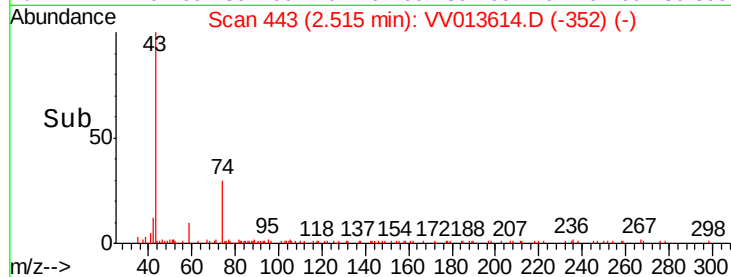
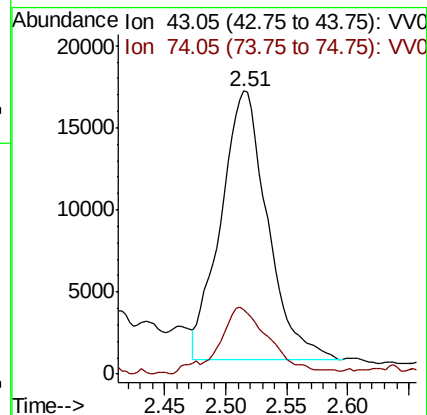
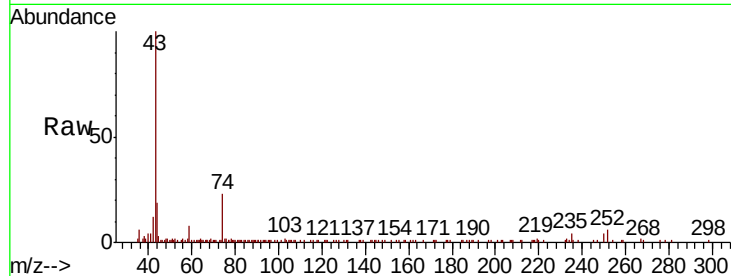




#15
Methvl Acetate
Concen: 5.478 ug/L
RT: 2.51 min Scan# 443
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

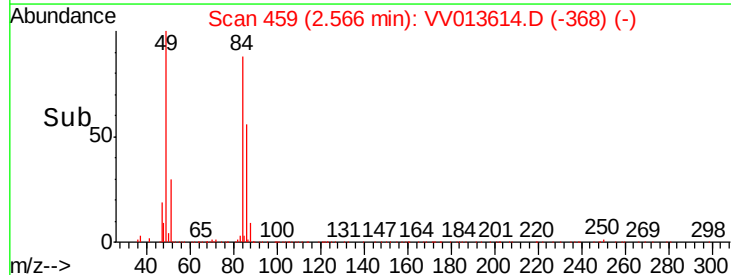
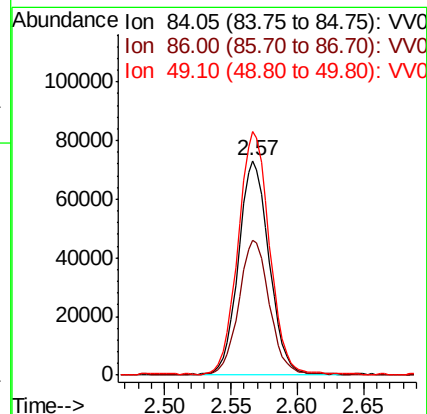
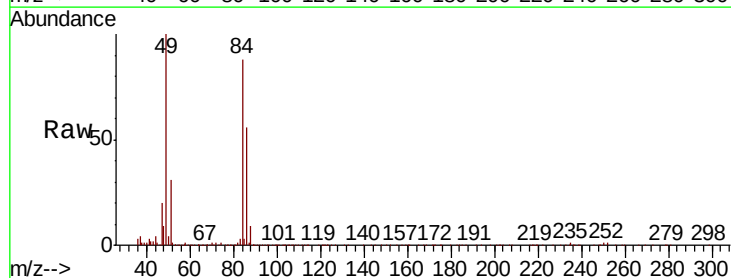
Instrument :
MSVOA_V
ClientSampleId :

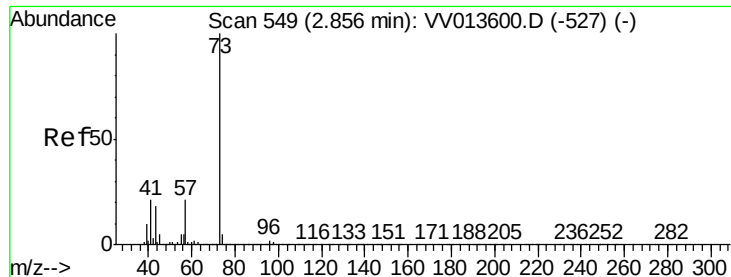
Tot Ion: 43 Resp: 43725
Ion Ratio Lower Upper
43 100
74 24.1 21.9 32.9



#16
Methylene chloride
Concen: 4.976 ug/L
RT: 2.57 min Scan# 459
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Tgt Ion: 84 Resp: 117169
Ion Ratio Lower Upper
84 100
86 63.1 45.1 83.9
49 113.6 81.4 151.2

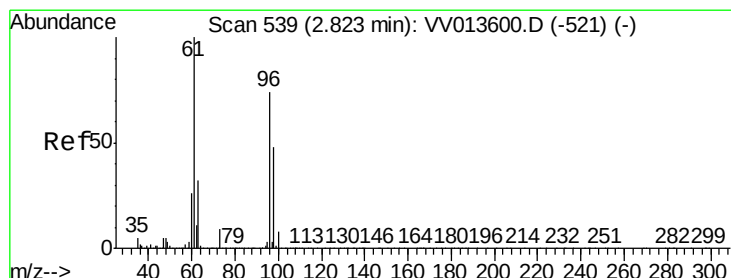
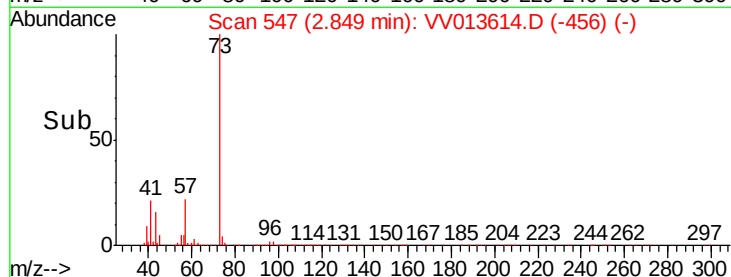
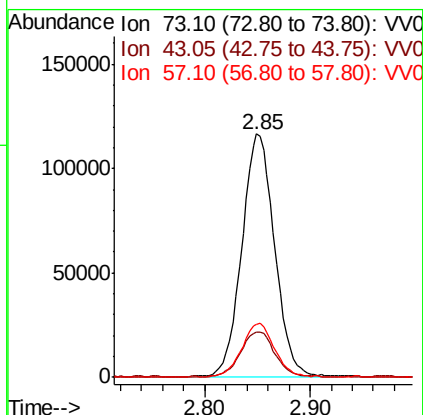
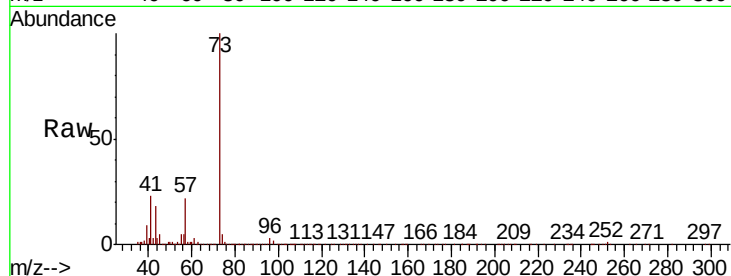




#17
Methyl tert-butyl Ether
Concen: 4.985 ug/L
RT: 2.85 min Scan# 547
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

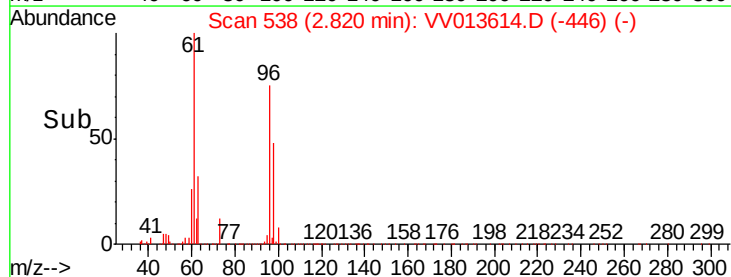
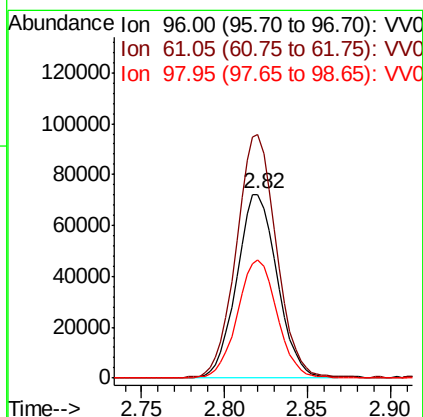
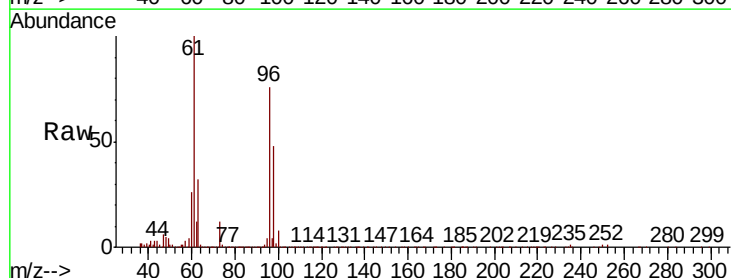
Instrument :
MSVOA_V
ClientSampleId :

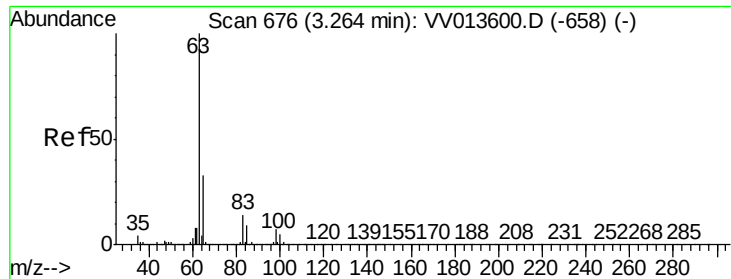
Tot Ion:	73	Resp:	252795
Ion	Ratio	Lower	Upper
73	100		
43	18.8	14.8	22.2
57	21.5	16.3	24.5



#18
trans-1,2-Dichloroethene
Concen: 5.260 ug/L
RT: 2.82 min Scan# 538
Delta R.T. -0.00 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Tgt Ion:	96	Resp:	121984
Ion	Ratio	Lower	Upper
96	100		
61	132.3	95.2	176.8
98	64.1	46.1	85.7

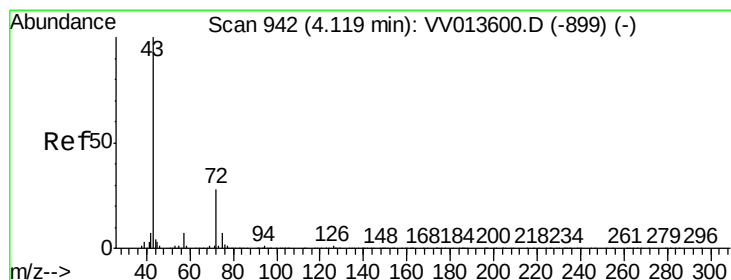
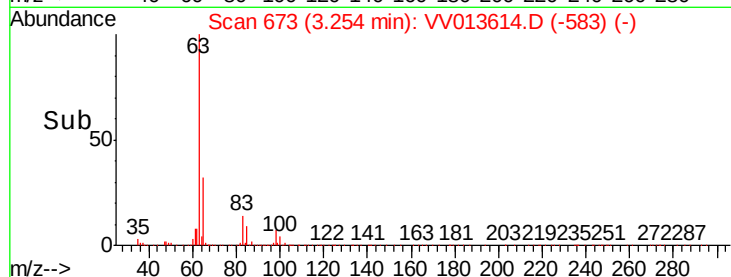
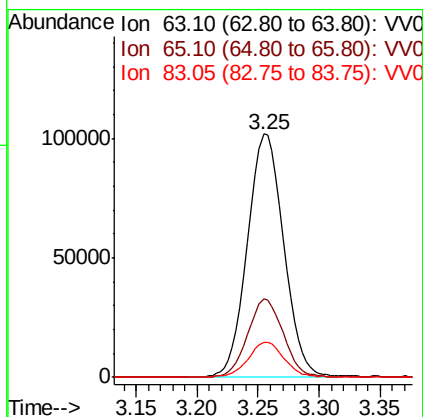
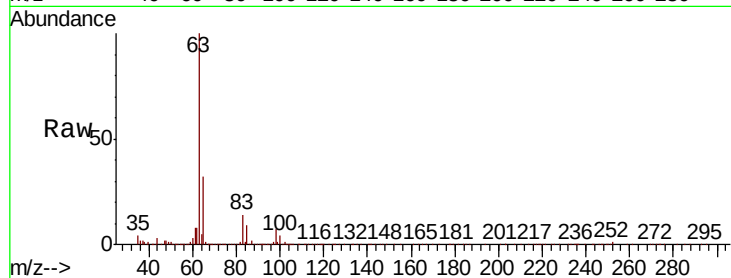




#19
 1,1-Dichloroethane
 Concen: 5.045 ug/L
 RT: 3.25 min Scan# 673
 Delta R.T. -0.01 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

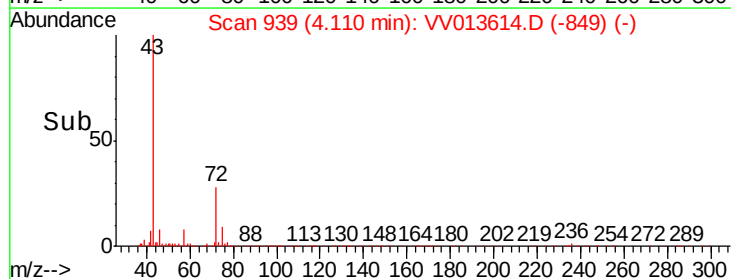
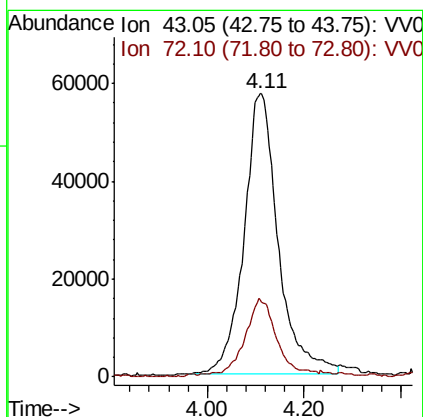
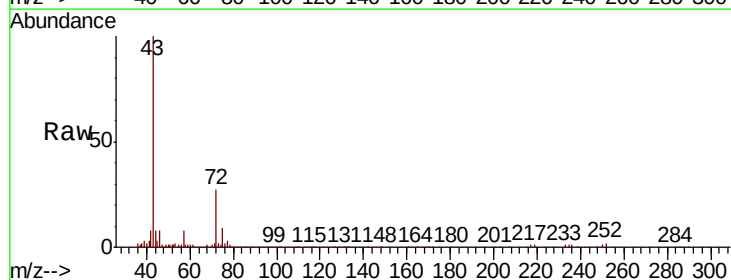
Instrument :
 MSVOA_V
 ClientSampleId :

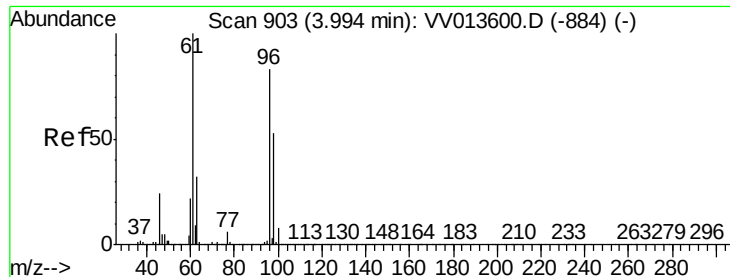
Tot Ion:	63	Resp:	209277
Ion	Ratio	Lower	Upper
63	100		
65	32.3	23.4	43.4
83	14.2	9.9	18.3



#21
 2-Butanone
 Concen: 55.019 ug/L
 RT: 4.11 min Scan# 939
 Delta R.T. -0.01 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Tgt Ion:	43	Resp:	282324
Ion	Ratio	Lower	Upper
43	100		
72	22.9	12.3	36.9



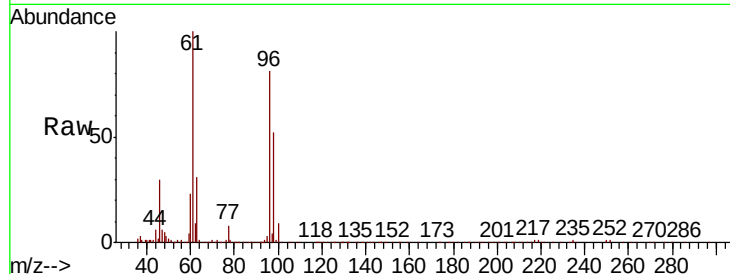


#22

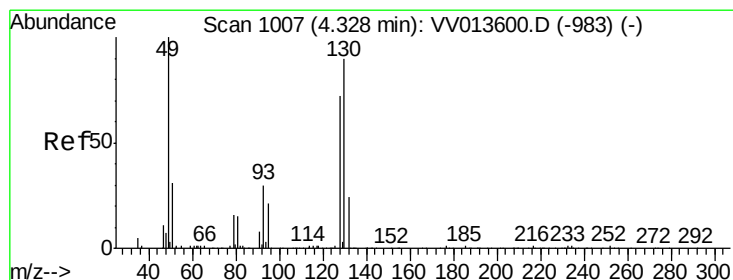
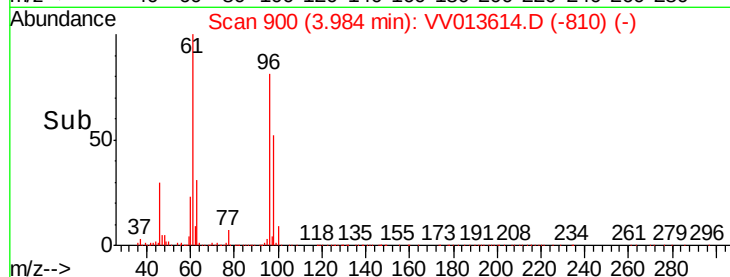
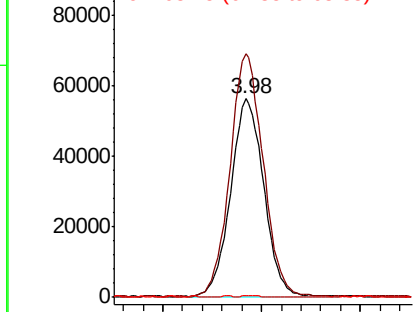
cis-1,2-Dichloroethene
Concen: 5.125 ug/L
RT: 3.98 min Scan# 900
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	122.7	84.7	157.3
68	0.7	0.3	0.7#



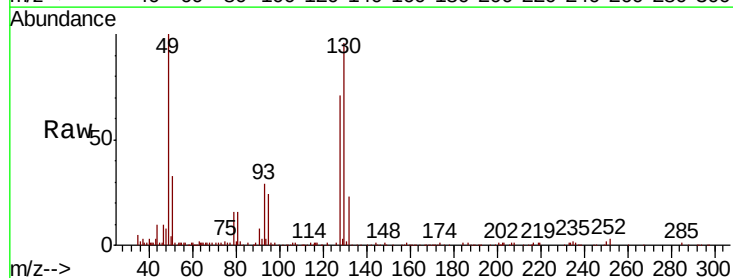
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



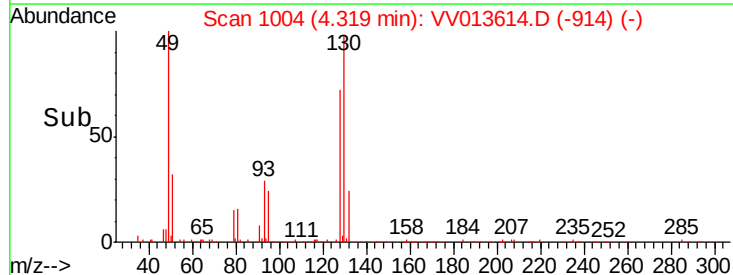
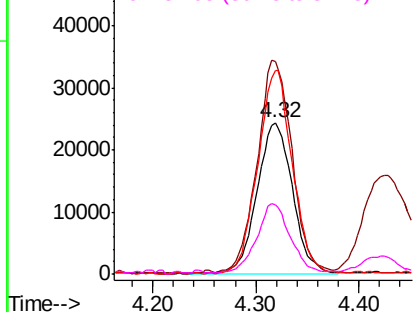
#23

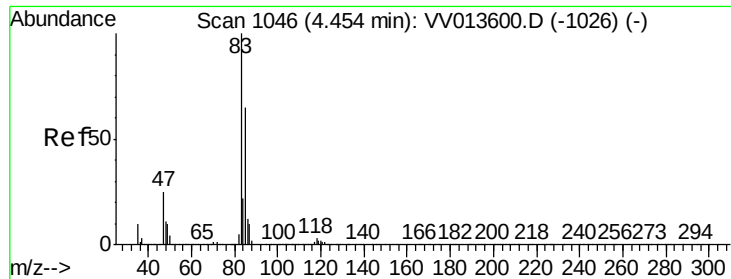
Bromochloromethane
Concen: 5.182 ug/L
RT: 4.32 min Scan# 1004
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Tgt Ion	Ratio	Lower	Upper
128	100		
49	140.8	98.4	182.8
130	134.9	88.4	164.2
51	45.8	35.2	52.8



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0

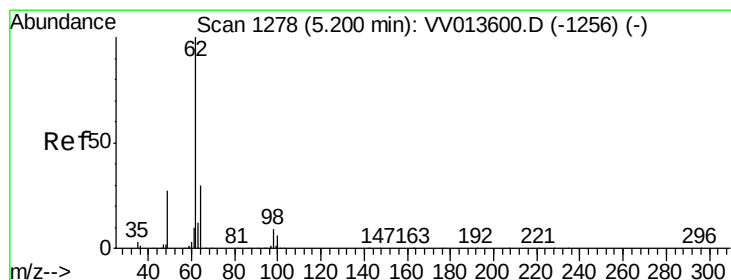
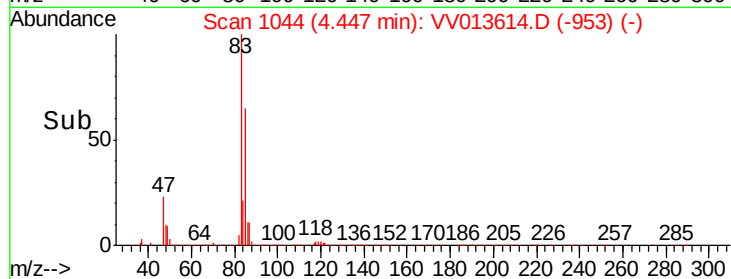
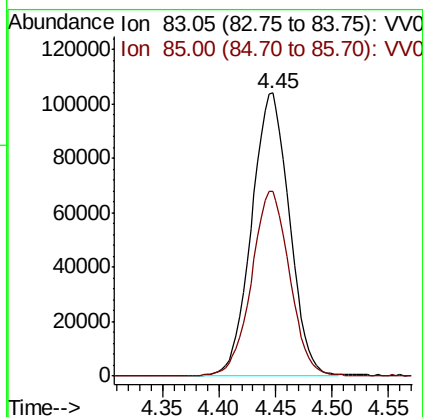
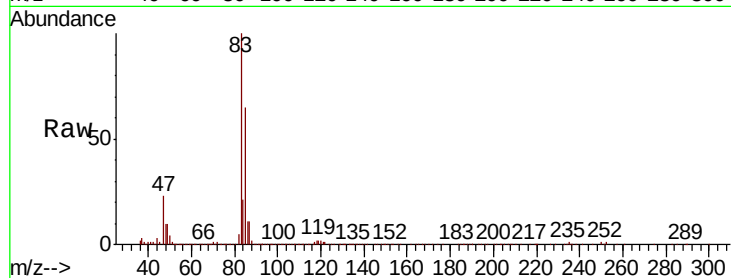




#25
Chloroform
Concen: 4.661 ug/L
RT: 4.45 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

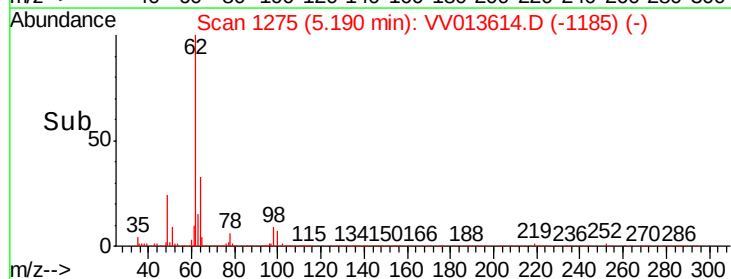
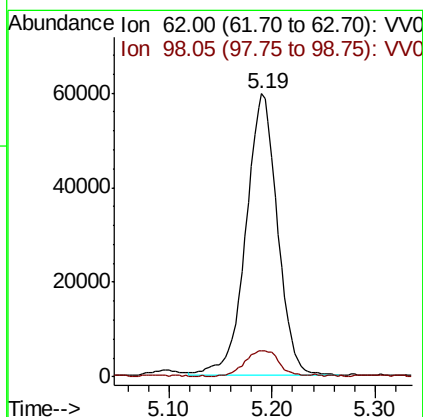
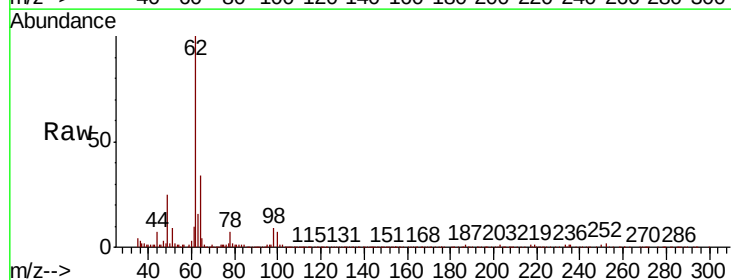
Instrument :
MSVOA_V
ClientSampleId :

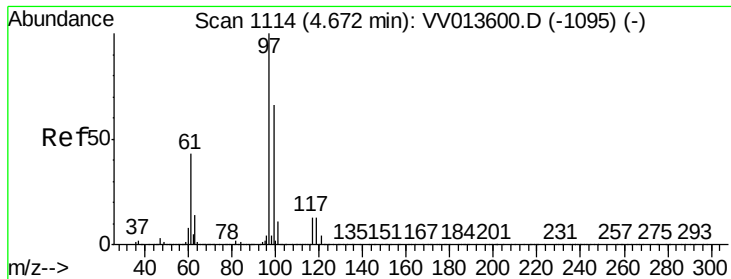
Tot Ion: 83 Resp: 241960
Ion Ratio Lower Upper
83 100
85 65.3 45.5 84.5



#27
1,2-Dichloroethane
Concen: 4.430 ug/L
RT: 5.19 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Tgt Ion: 62 Resp: 126464
Ion Ratio Lower Upper
62 100
98 9.3 7.4 11.2

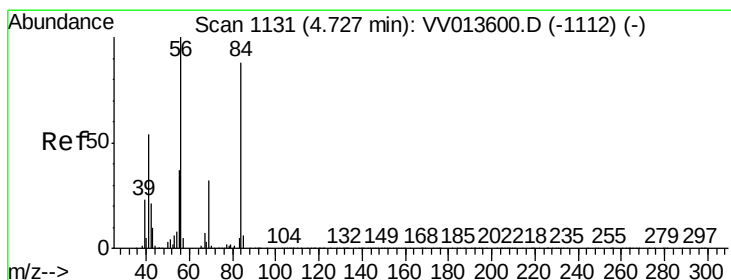
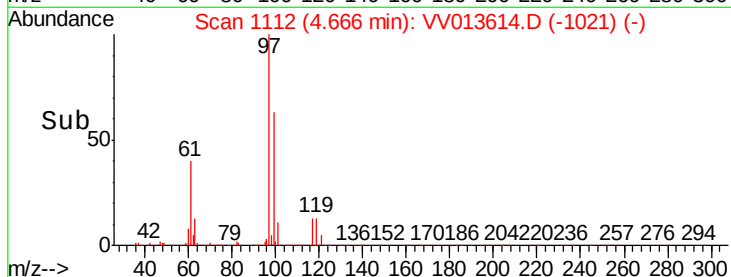
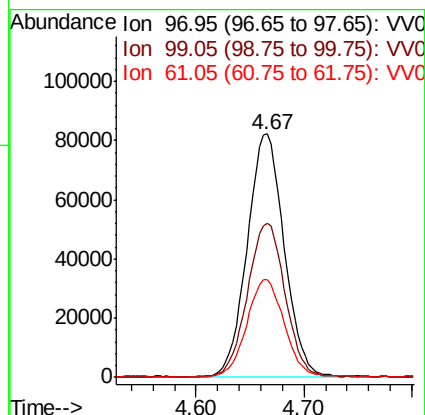
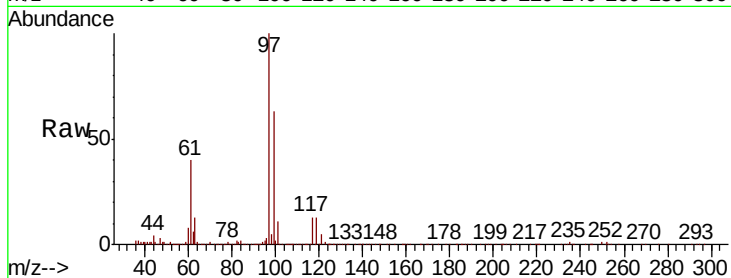




#29
1,1,1-Trichloroethane
Concen: 5.556 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

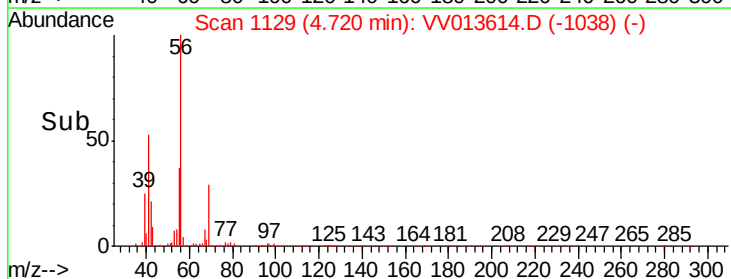
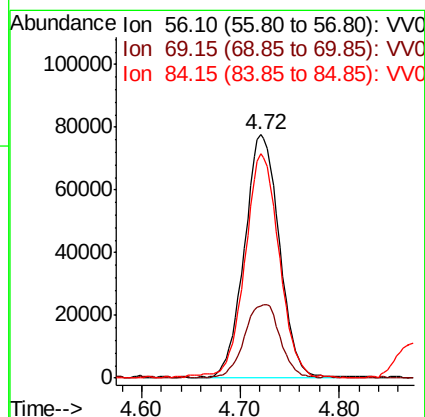
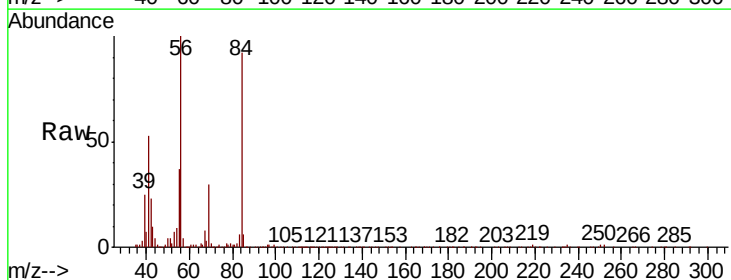
Instrument :
MSVOA_V
ClientSampled :

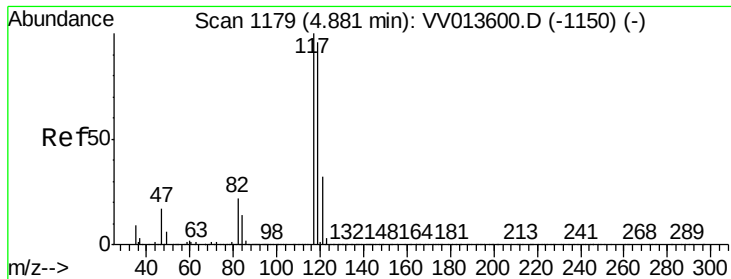
Tot Ion: 97 Resp: 195560
Ion Ratio Lower Upper
97 100
99 65.0 52.6 78.8
61 40.5 34.1 51.1



#30
Cyclohexane
Concen: 5.386 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.01 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Tgt Ion: 56 Resp: 188319
Ion Ratio Lower Upper
56 100
69 30.4 25.0 37.4
84 90.4 75.5 113.3





#31

Carbon tetrachloride

Concen: 5.552 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.01 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

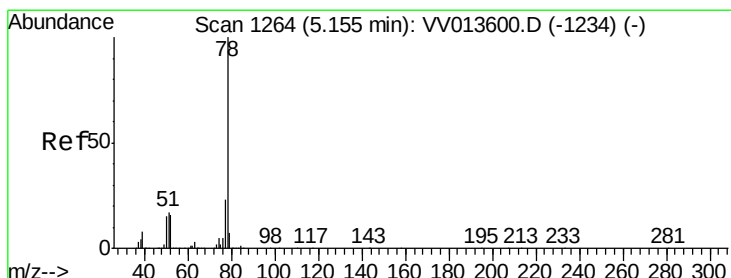
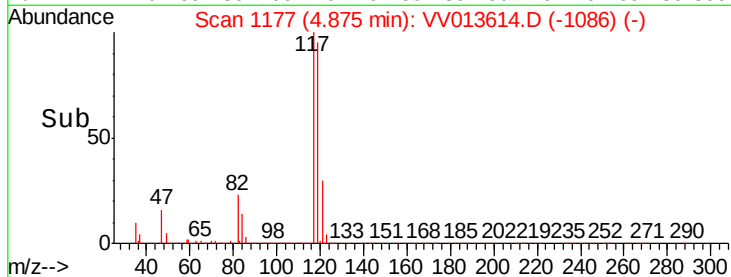
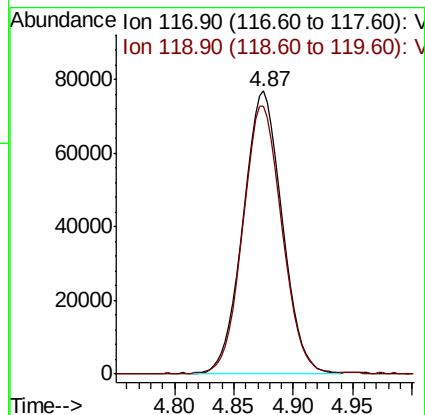
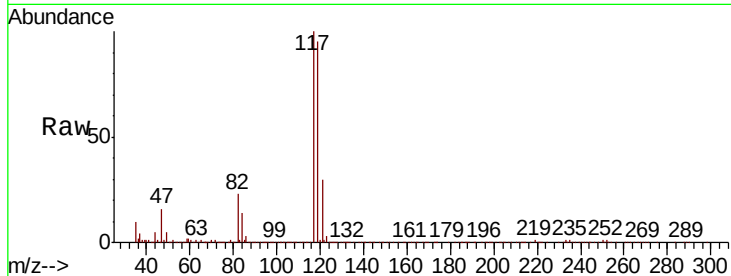
ClientSampleId :

Tot Ion:117 Resp: 175317

Ion Ratio Lower Upper

117 100

119 95.2 76.9 115.3



#33

Benzene

Concen: 4.834 ug/L

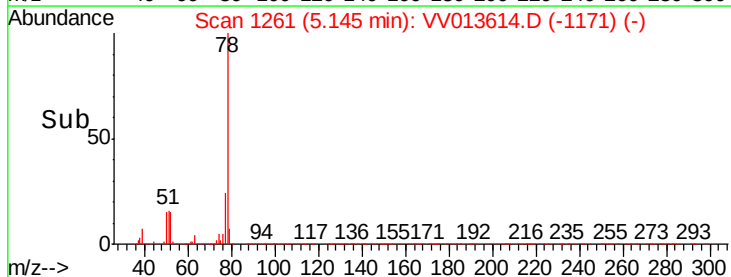
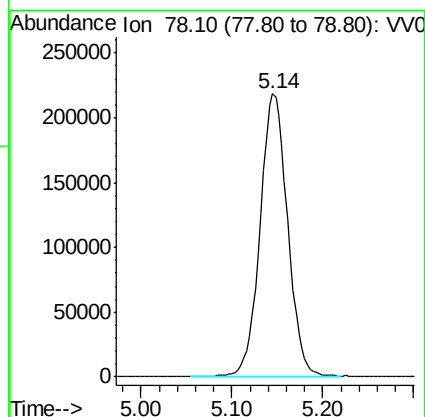
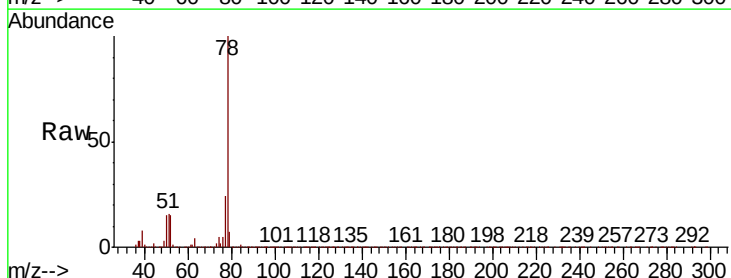
RT: 5.14 min Scan# 1261

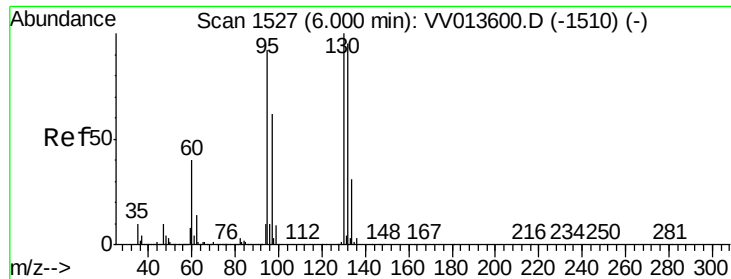
Delta R.T. -0.01 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Tgt Ion: 78 Resp: 460759





#34

Trichloroethene

Concen: 5.533 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. -0.04 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 148038

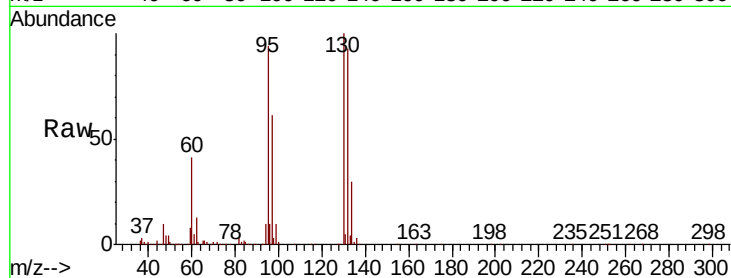
Ion Ratio Lower Upper

95 100

97 65.5 47.0 87.4

132 99.3 72.2 134.0

130 106.9 75.7 140.7

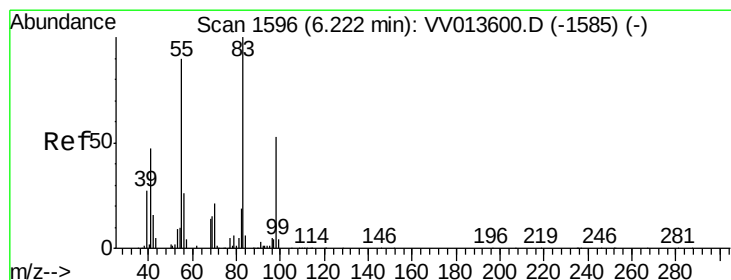
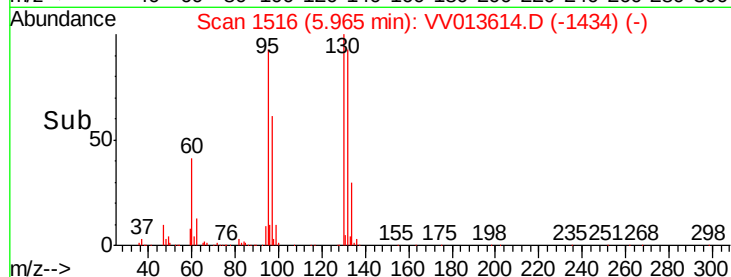
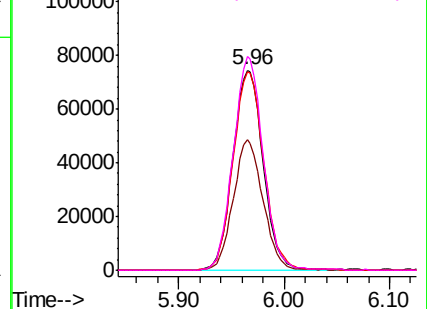


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.365 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.04 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

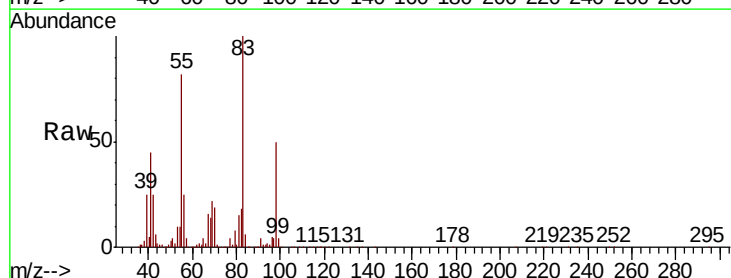
Tgt Ion: 83 Resp: 208584

Ion Ratio Lower Upper

83 100

55 80.7 67.0 100.4

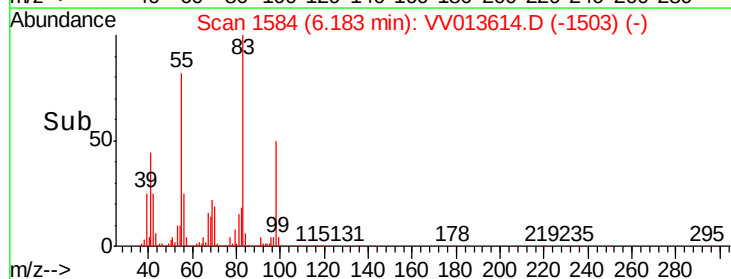
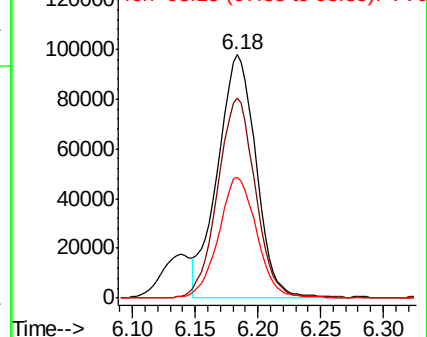
98 49.2 38.5 57.7

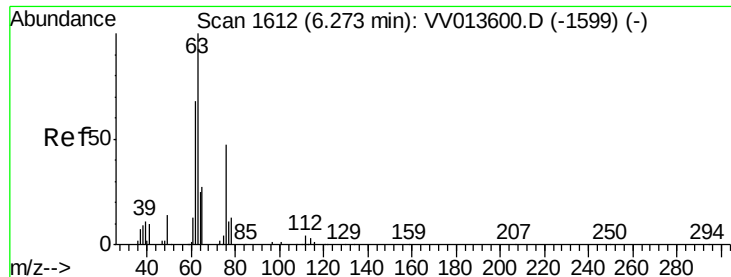


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

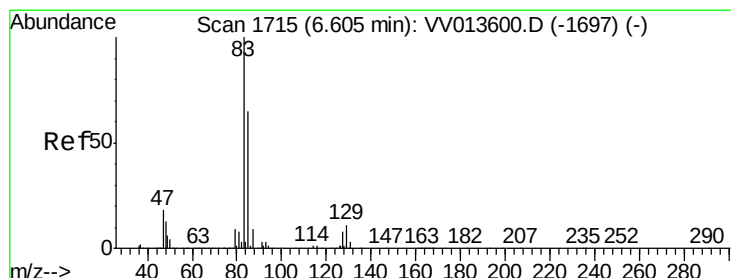
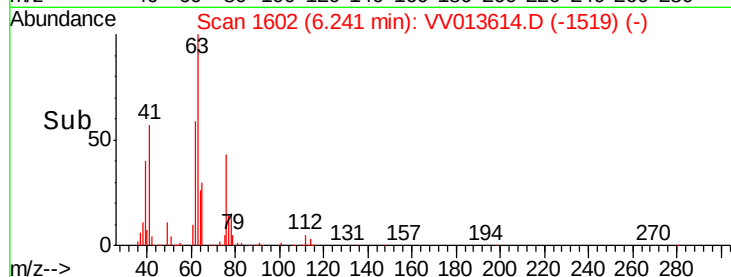
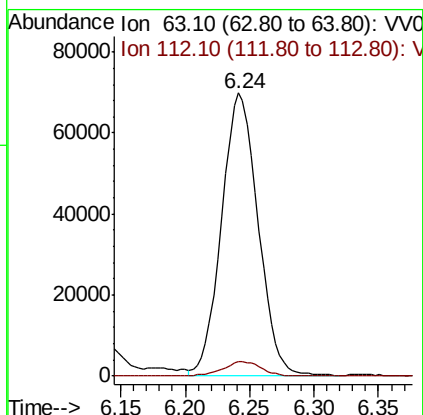
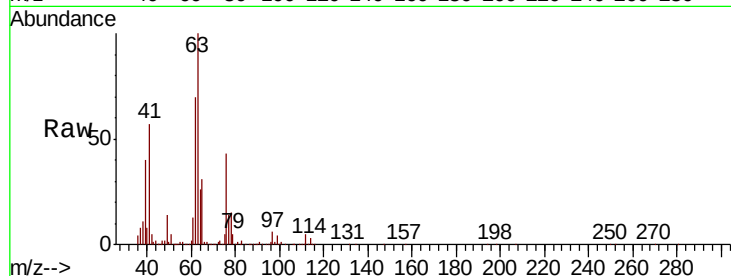




#37
 1,2-Dichloropropane
 Concen: 5.539 ug/L
 RT: 6.24 min Scan# 1602
 Delta R.T. -0.03 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

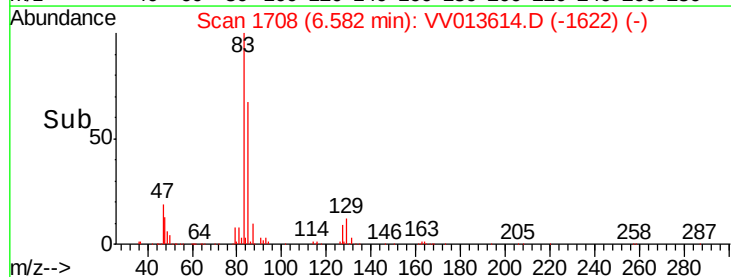
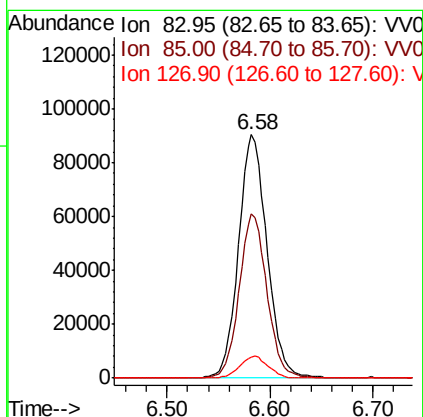
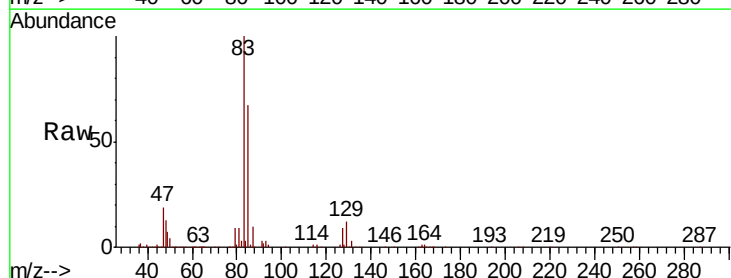
Instrument :
 MSVOA_V
 ClientSampleId :

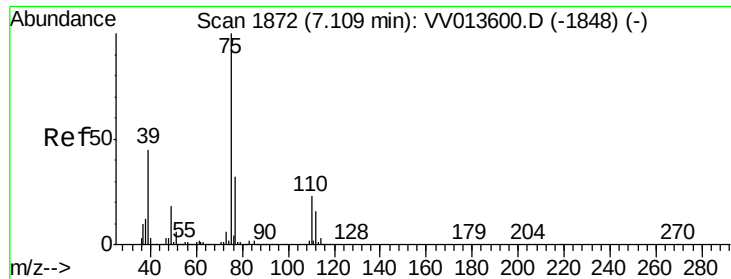
Tot Ion: 63 Resp: 136341
 Ion Ratio Lower Upper
 63 100
 112 5.5 0.2 0.2#



#38
 Bromodichloromethane
 Concen: 5.171 ug/L
 RT: 6.58 min Scan# 1708
 Delta R.T. -0.02 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Tgt Ion: 83 Resp: 174101
 Ion Ratio Lower Upper
 83 100
 85 67.4 45.5 84.5
 127 8.6 6.8 10.2



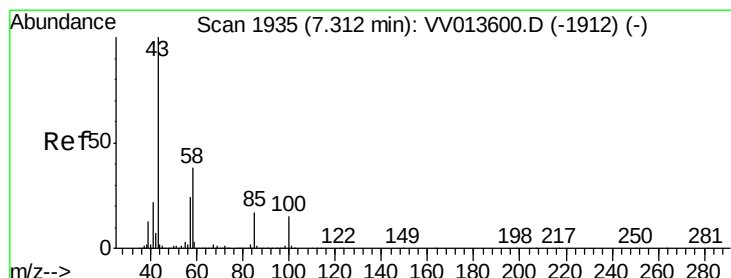
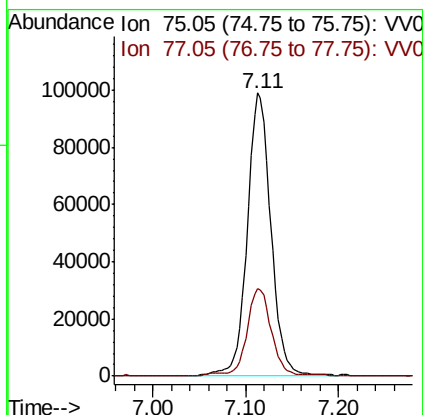
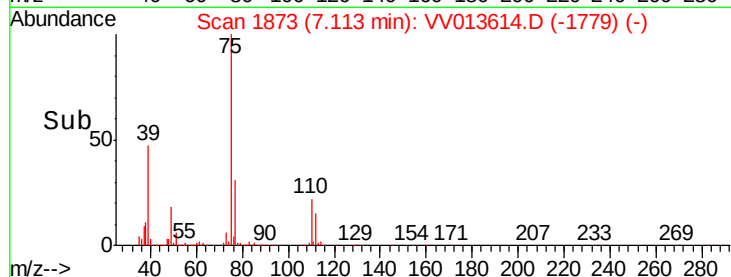
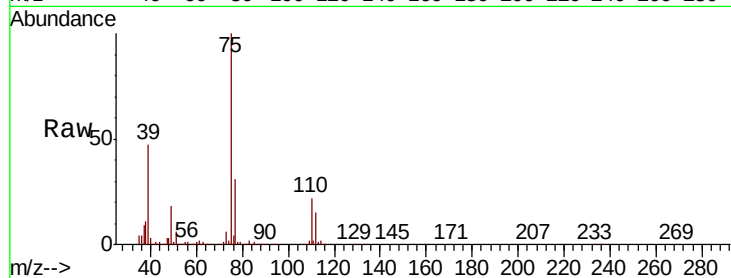


#39

cis-1,3-Dichloropropene
 Concen: 5.155 ug/L
 RT: 7.11 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Instrument :
 MSVOA_V
 ClientSampled :

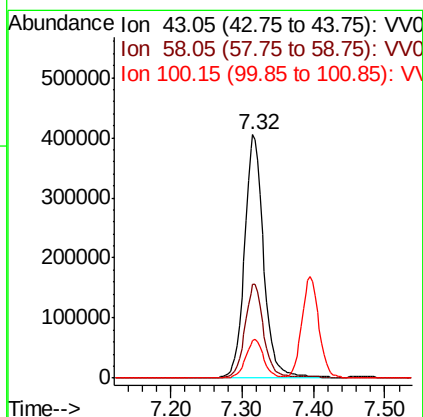
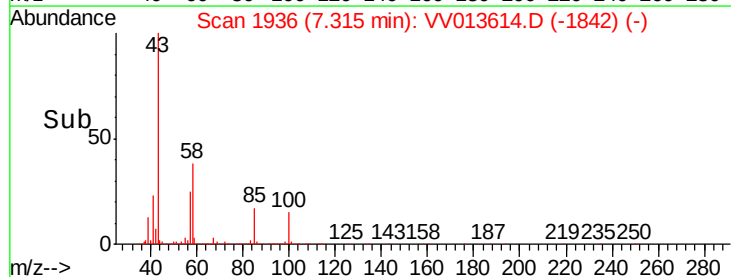
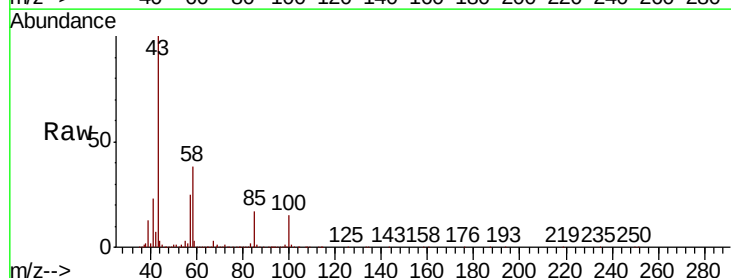
Tot Ion: 75 Resp: 175443
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.3 41.3

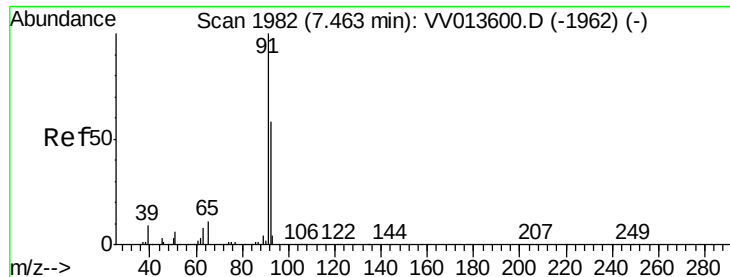


#40

4-Methyl-2-pentanone
 Concen: 55.001 ug/L
 RT: 7.32 min Scan# 1936
 Delta R.T. 0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Tgt Ion: 43 Resp: 757077
 Ion Ratio Lower Upper
 43 100
 58 37.8 30.6 45.8
 100 15.0 12.0 18.0





#42

Toluene

Concen: 5.595 ug/L

RT: 7.47 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

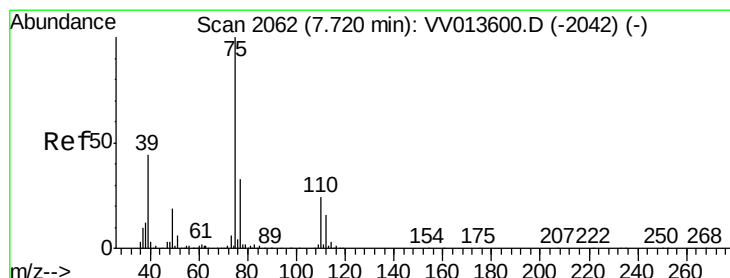
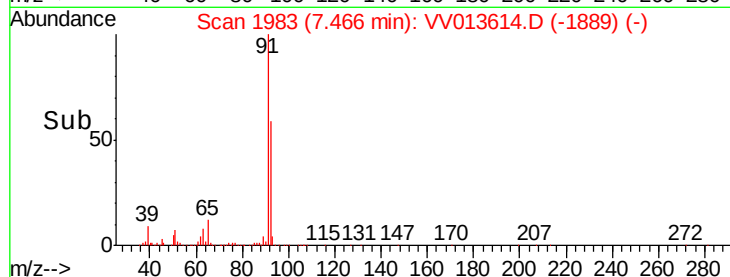
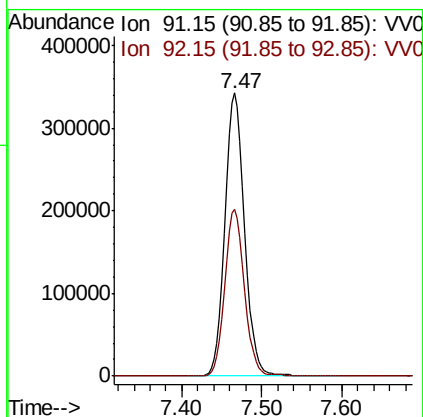
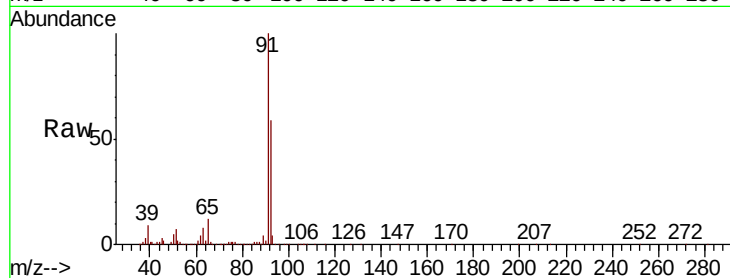
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 579227

Ion Ratio Lower Upper

91 100

92 58.9 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 5.322 ug/L

RT: 7.72 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VV013614.D

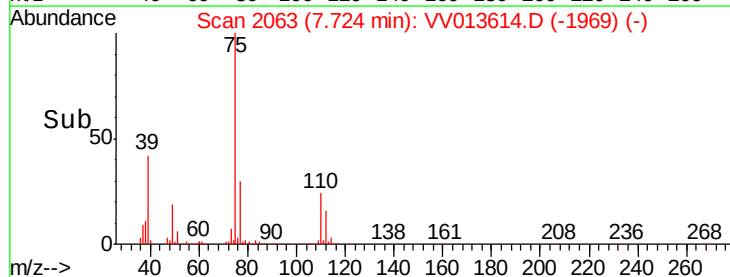
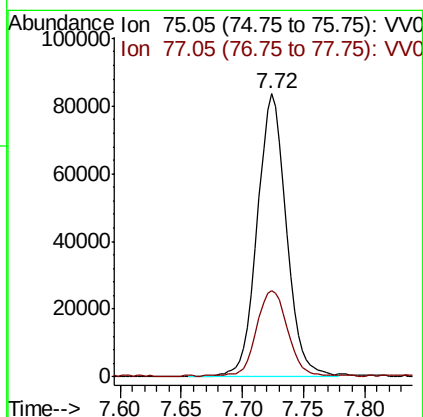
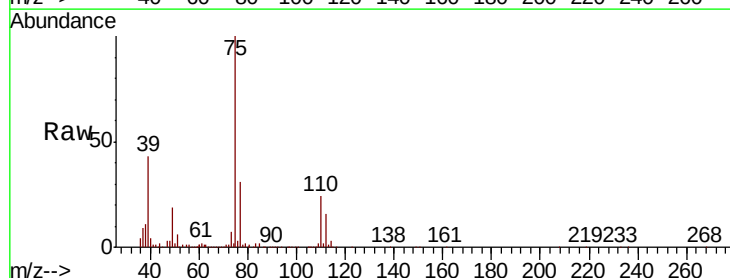
Acq: 14 Nov 2019 09:22

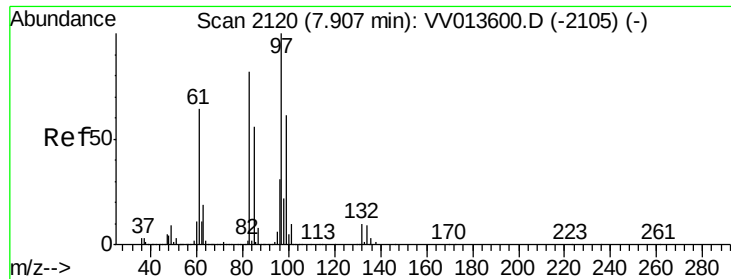
Tgt Ion: 75 Resp: 138586

Ion Ratio Lower Upper

75 100

77 30.6 23.2 43.0

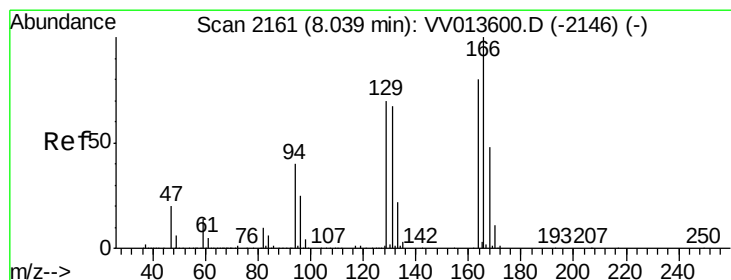
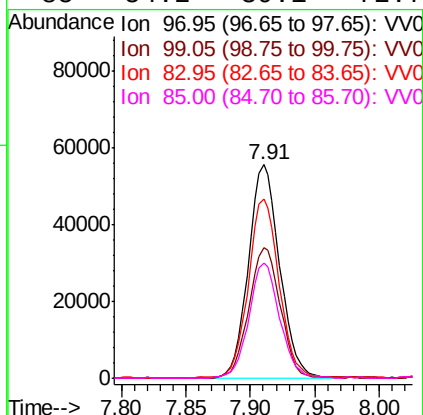
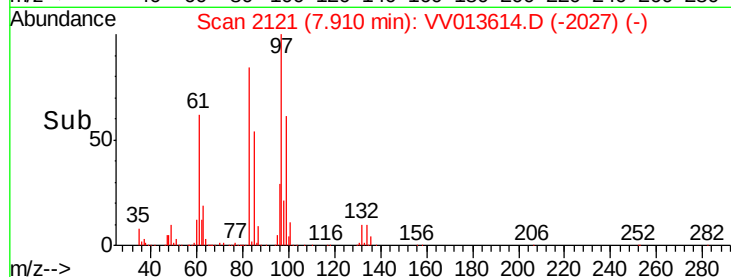
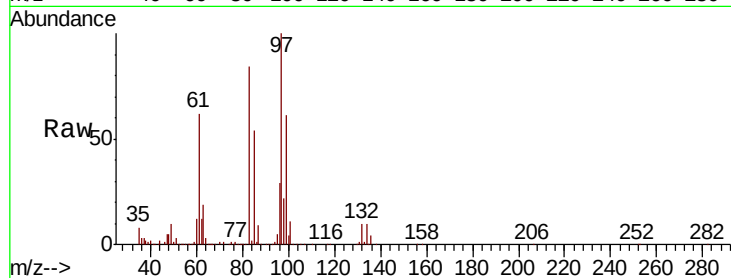




#45
1,1,2-Trichloroethane
Concen: 5.336 ug/L
RT: 7.91 min Scan# 2121
Delta R.T. 0.00 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

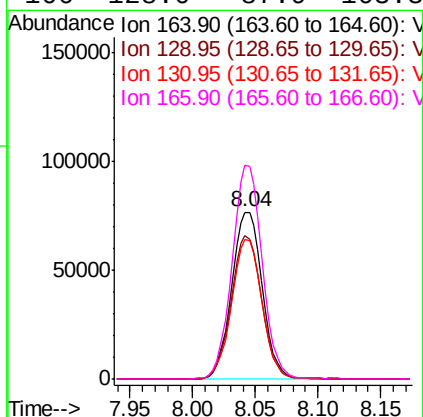
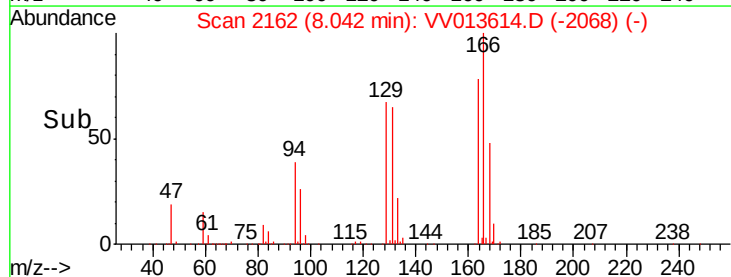
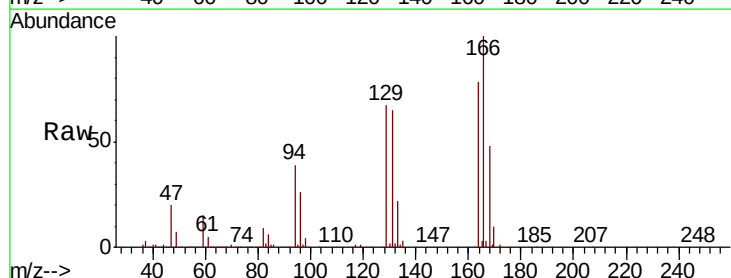
Instrument :
MSVOA_V
ClientSampleId :

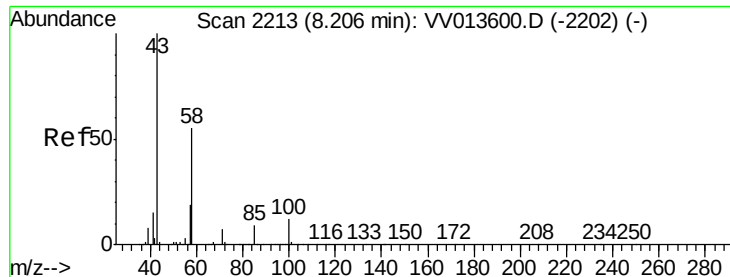
Tot Ion:	97	Resp:	94146
Ion	Ratio	Lower	Upper
97	100		
99	61.3	42.5	78.9
83	83.9	57.2	106.2
85	54.2	39.1	72.7



#47
Tetrachloroethene
Concen: 5.344 ug/L
RT: 8.04 min Scan# 2162
Delta R.T. 0.00 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Tgt Ion:	164	Resp:	130057
Ion	Ratio	Lower	Upper
164	100		
129	86.2	61.6	114.4
131	83.7	59.0	109.6
166	128.0	87.9	163.3

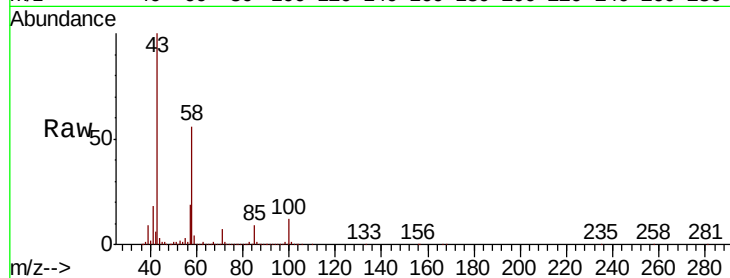




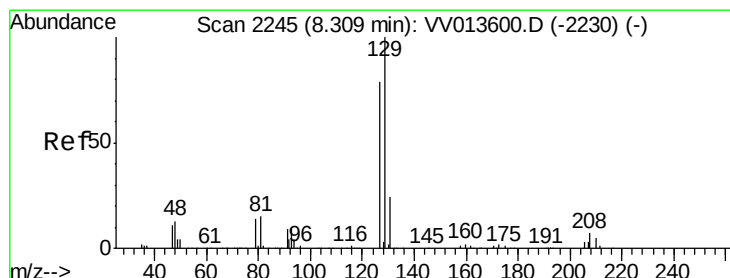
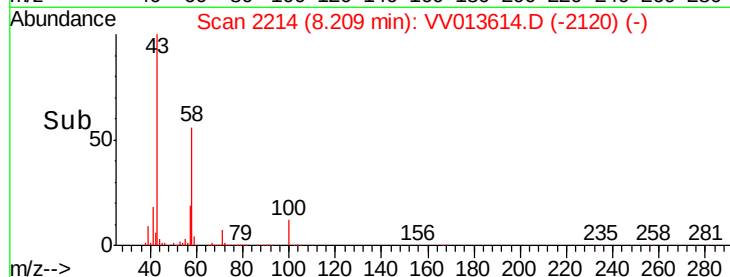
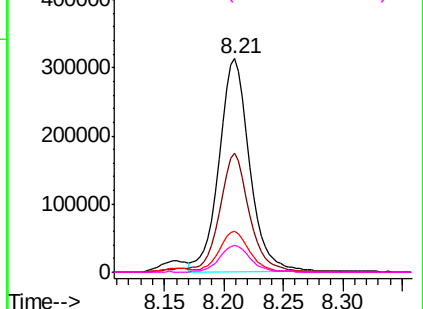
#48
2-Hexanone
Concen: 57.402 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	43	Resp:	555896
Ion	Ratio	Lower	Upper
43	100		
58	56.4	45.1	67.7
57	18.9	14.6	21.8
100	12.6	10.2	15.2

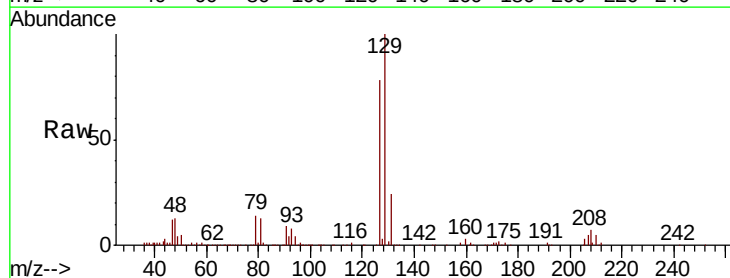


Abundance Ion 43.05 (42.75 to 43.75): VV013614.D (-2120) (-)
Ion 58.05 (57.75 to 58.75): VV013614.D (-2120) (-)
Ion 57.20 (56.90 to 57.90): VV013614.D (-2120) (-)
Ion 100.15 (99.85 to 100.85): VV013614.D (-2120) (-)

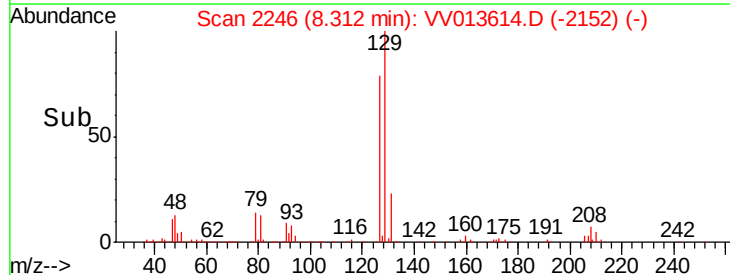
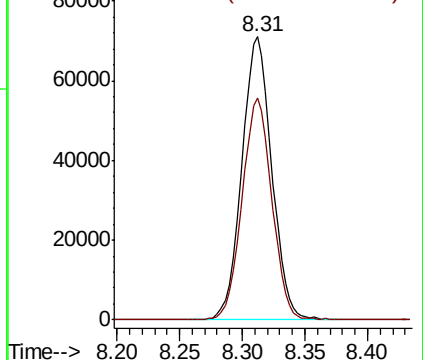


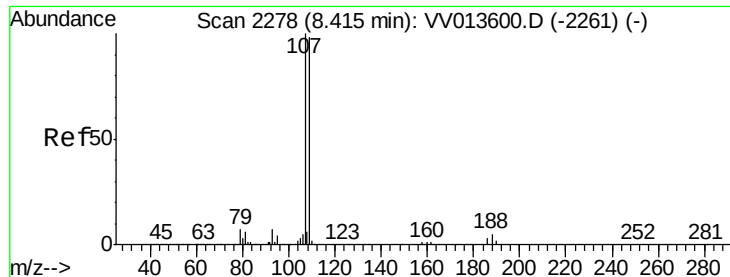
#49
Dibromochloromethane
Concen: 5.312 ug/L
RT: 8.31 min Scan# 2246
Delta R.T. 0.00 min
Lab File: VV013614.D
Acq: 14 Nov 2019 09:22

Tgt Ion:	129	Resp:	117745
Ion	Ratio	Lower	Upper
129	100		
127	78.2	55.5	103.1



Abundance Ion 128.95 (128.65 to 129.65): VV013614.D (-2152) (-)
Ion 126.90 (126.60 to 127.60): VV013614.D (-2152) (-)

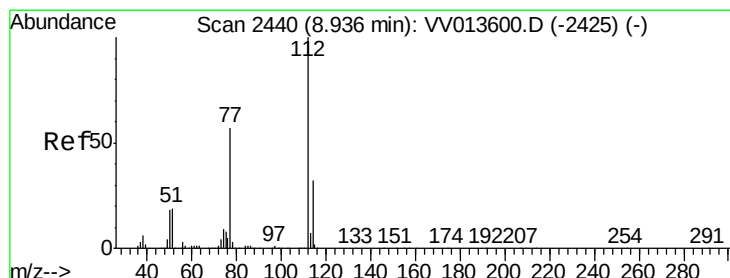
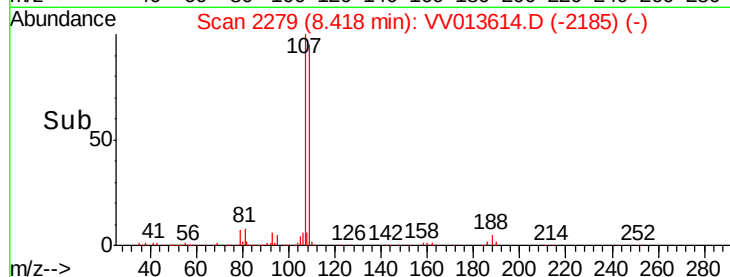
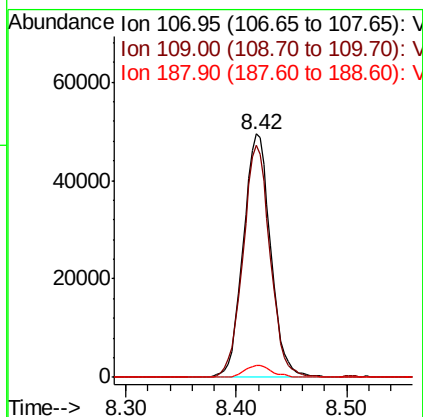
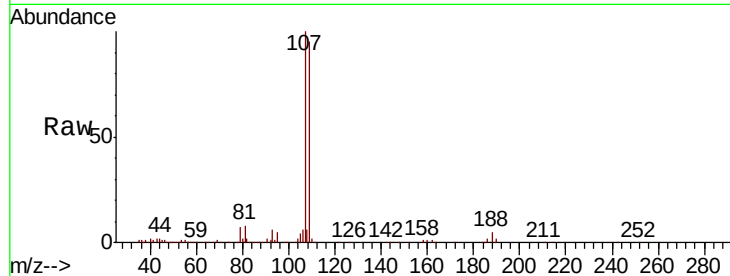




#50
 1,2-Dibromoethane
 Concen: 5.266 ug/L
 RT: 8.42 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

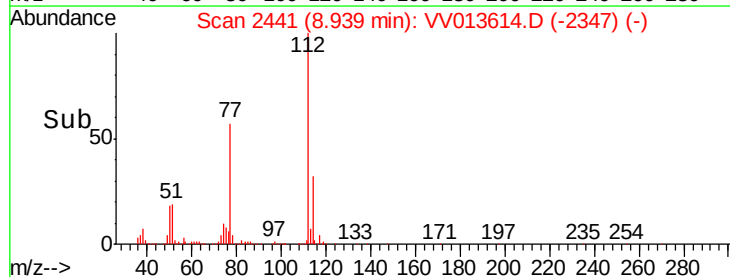
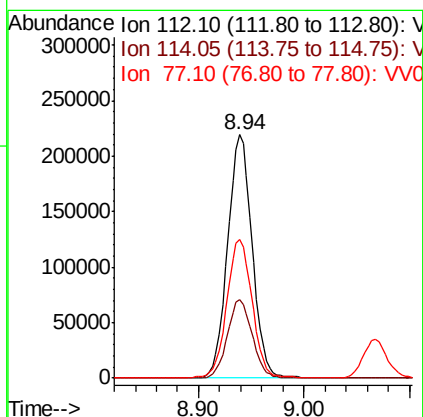
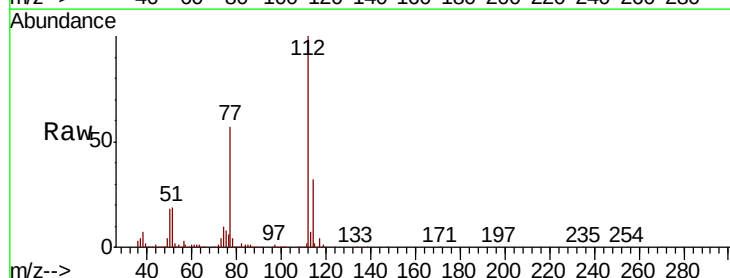
Instrument :
 MSVOA_V
 ClientSampleId :

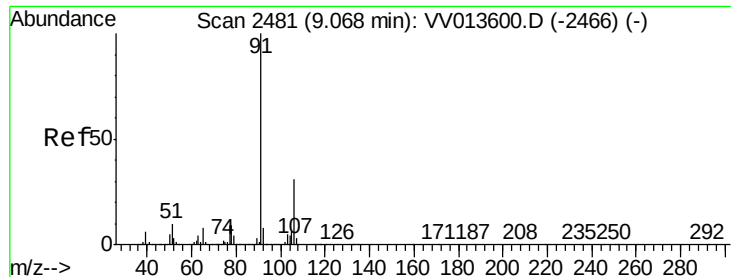
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.1	69.0	128.2
188	4.8	3.8	5.6



#51
 Chlorobenzene
 Concen: 5.182 ug/L
 RT: 8.94 min Scan# 2441
 Delta R.T. 0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.3	41.5
77	57.0	46.0	69.0





#52

Ethylbenzene

Concen: 5.287 ug/L

RT: 9.07 min Scan# 2481

Delta R.T. 0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

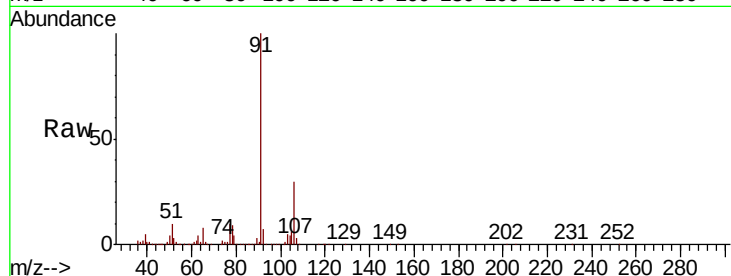
ClientSampled :

Tot Ion: 91 Resp: 573606

Ion Ratio Lower Upper

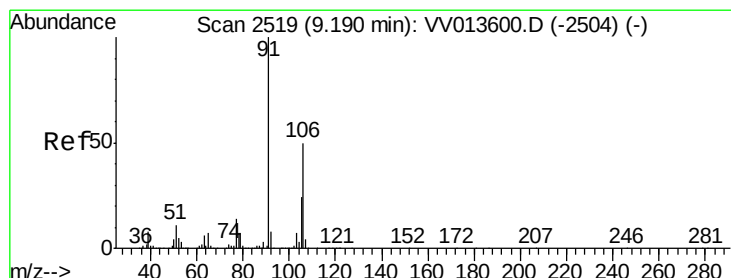
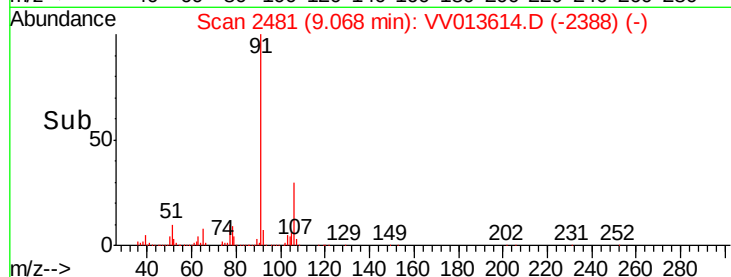
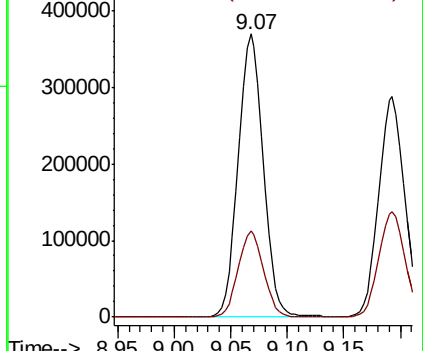
91 100

106 30.3 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-xylene

Concen: 5.404 ug/L

RT: 9.19 min Scan# 2520

Delta R.T. 0.00 min

Lab File: VV013614.D

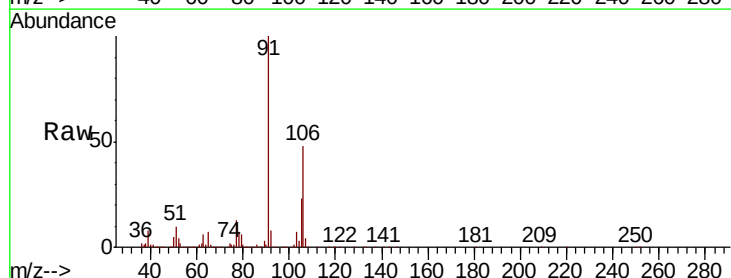
Acq: 14 Nov 2019 09:22

Tgt Ion: 106 Resp: 223339

Ion Ratio Lower Upper

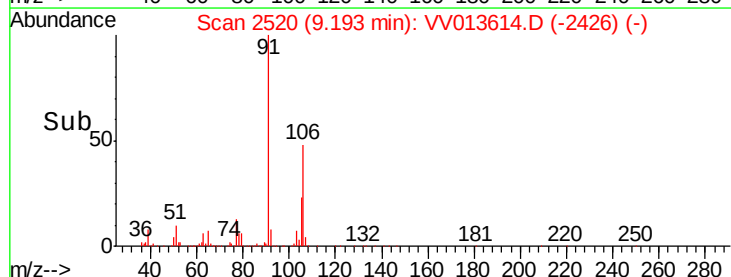
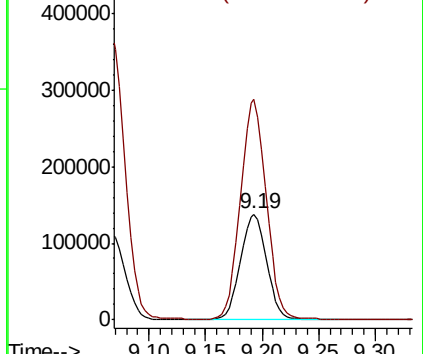
106 100

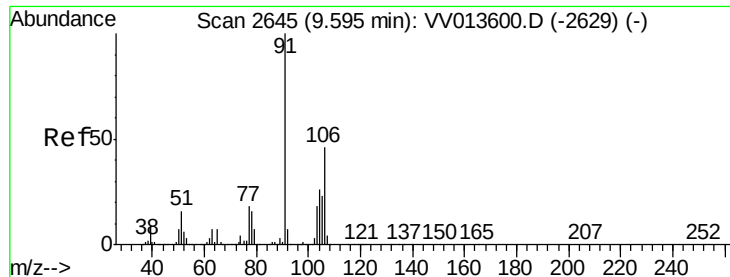
91 207.7 139.9 259.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#54

o-xylene

Concen: 5.632 ug/L

RT: 9.59 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

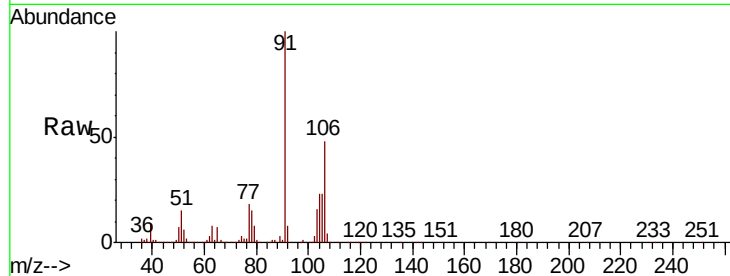
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 217464

Ion Ratio Lower Upper

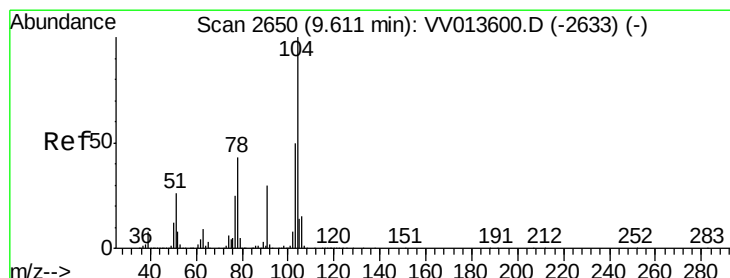
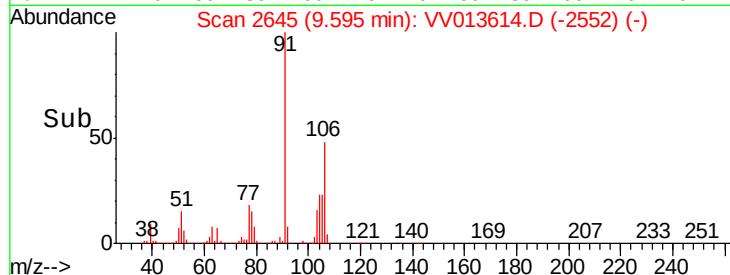
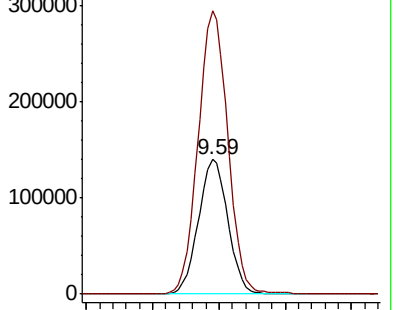
106 100

91 209.9 152.7 283.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.833 ug/L

RT: 9.61 min Scan# 2650

Delta R.T. -0.00 min

Lab File: VV013614.D

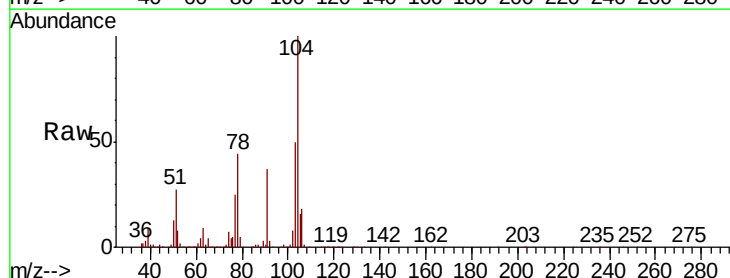
Acq: 14 Nov 2019 09:22

Tgt Ion:104 Resp: 392490

Ion Ratio Lower Upper

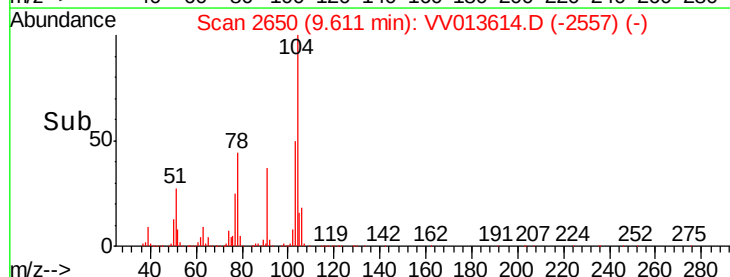
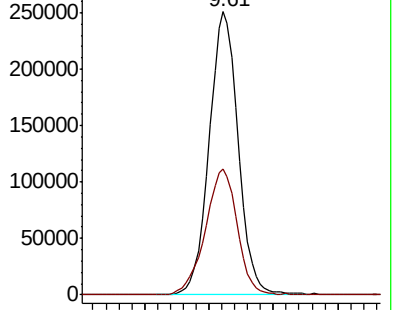
104 100

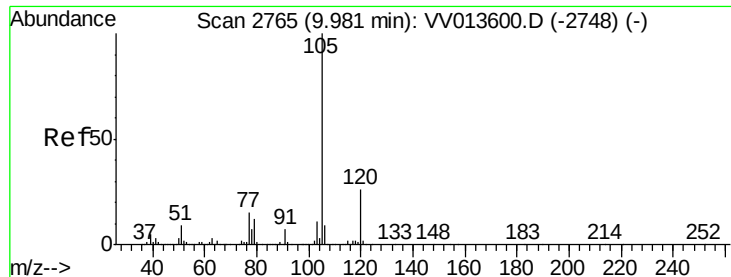
78 44.4 30.3 56.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.618 ug/L

RT: 9.98 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

ClientSampleId :

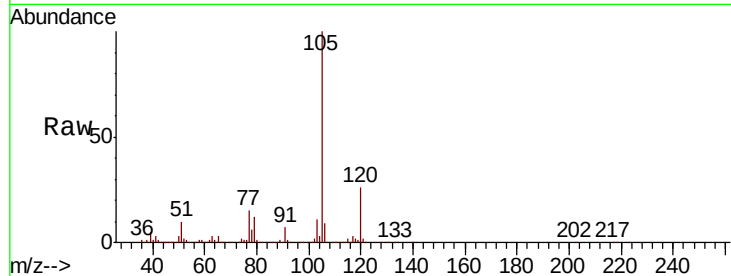
Tot Ion:105 Resp: 582325

Ion Ratio Lower Upper

105 100

120 26.0 20.8 31.2

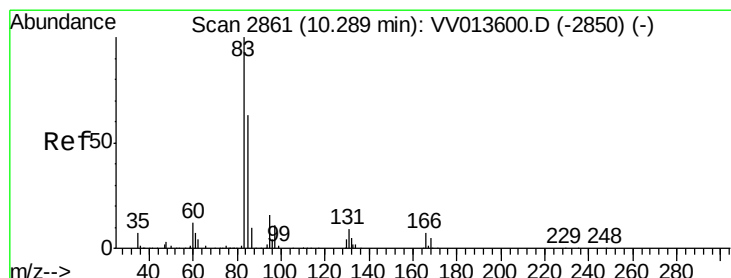
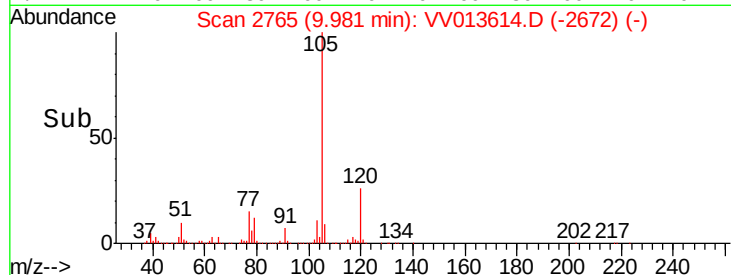
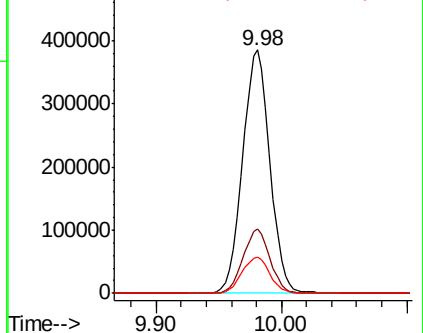
77 15.3 12.6 18.8



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: 5.363 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

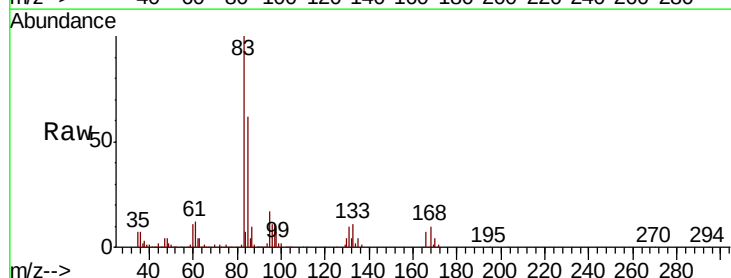
Tgt Ion: 83 Resp: 103873

Ion Ratio Lower Upper

83 100

85 61.9 45.2 84.0

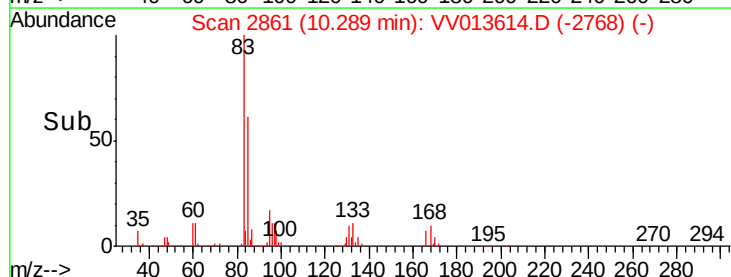
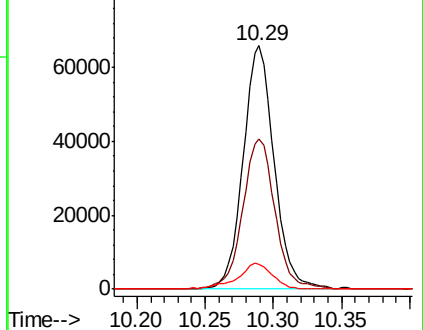
131 10.4 8.2 12.2

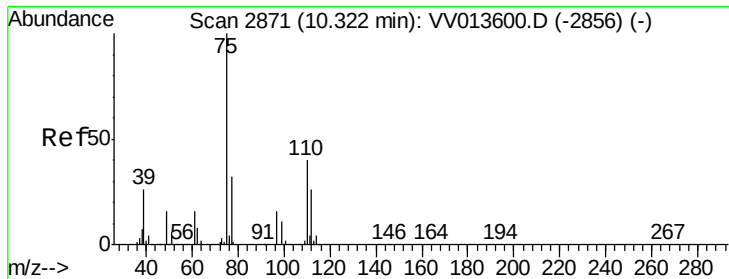


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

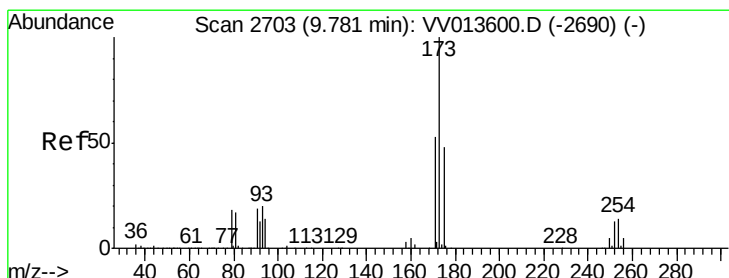
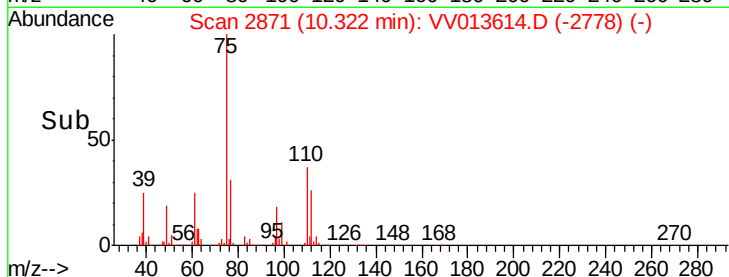
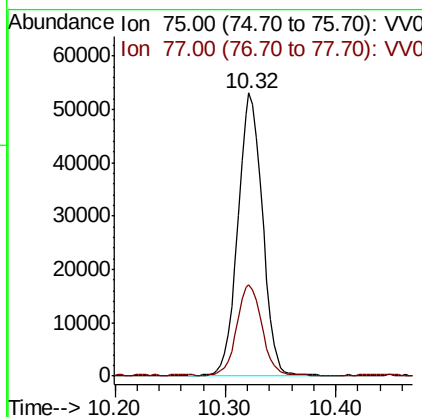
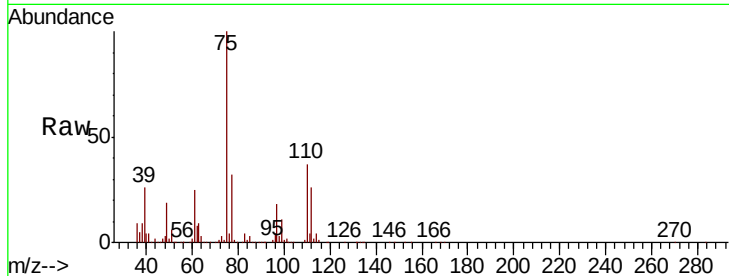




#59
 1,2,3-Trichloropropane
 Concen: 5.495 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

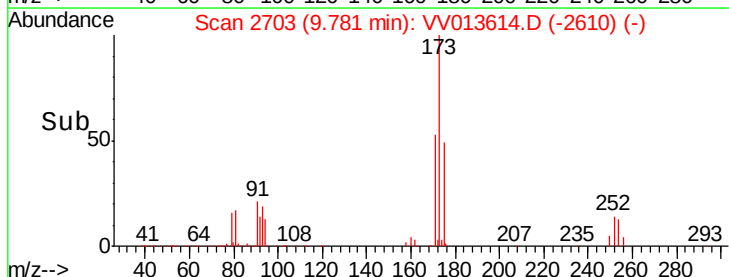
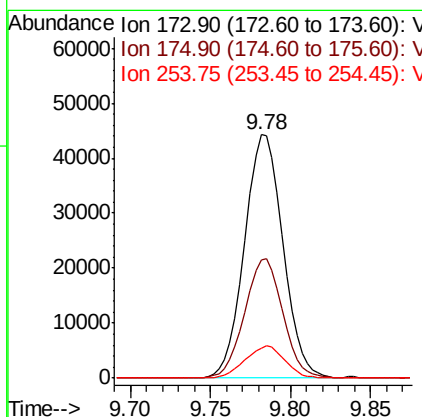
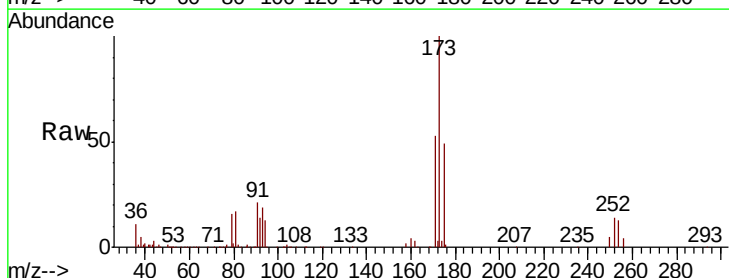
Instrument :
 MSVOA_V
 ClientSampleId :

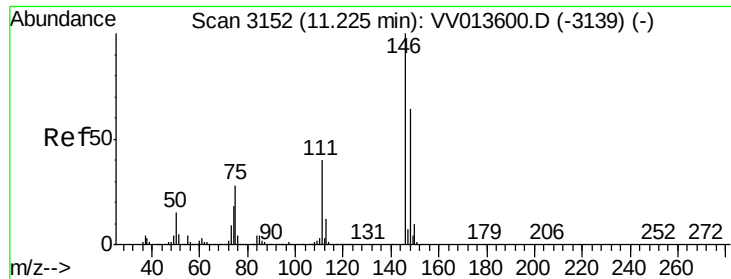
Tot Ion: 75 Resp: 82385
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.8 38.6



#61
 Bromoform
 Concen: 5.396 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Tgt Ion: 173 Resp: 72804
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.6 57.8
 254 13.6 11.4 17.0

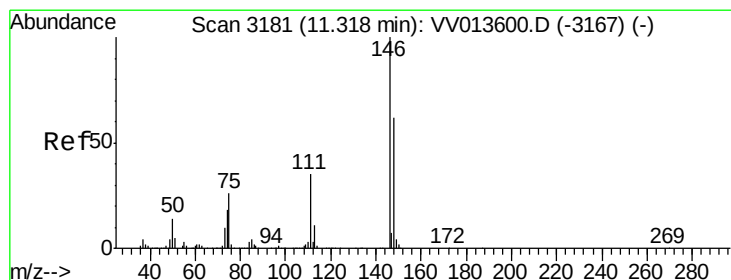
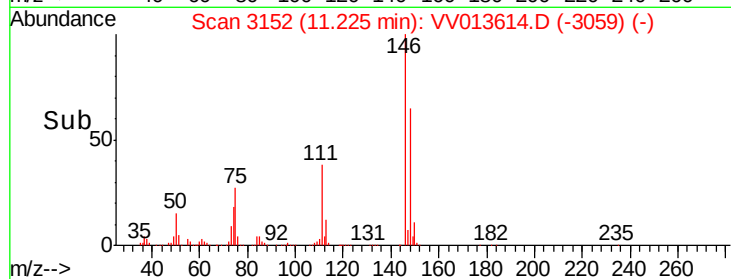
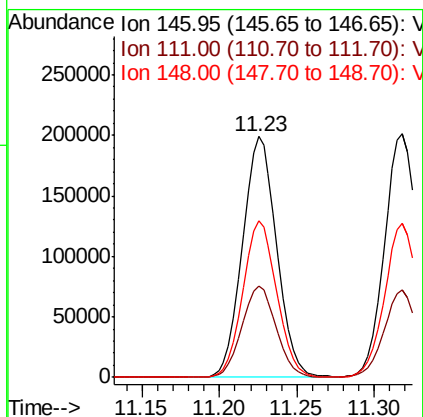
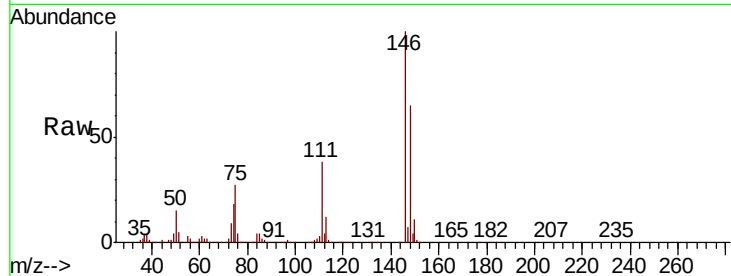




#62
 1,3-Dichlorobenzene
 Concen: 5.284 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

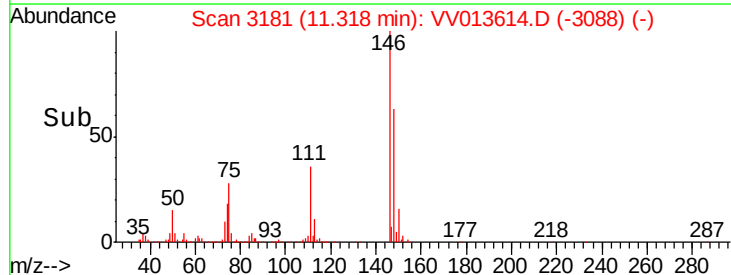
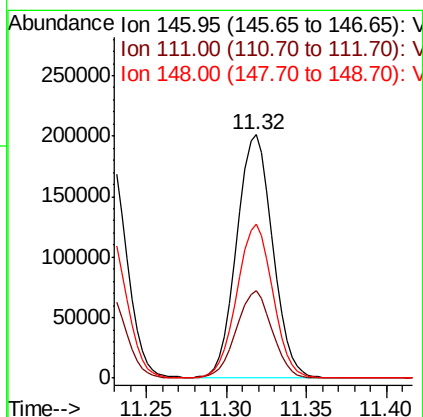
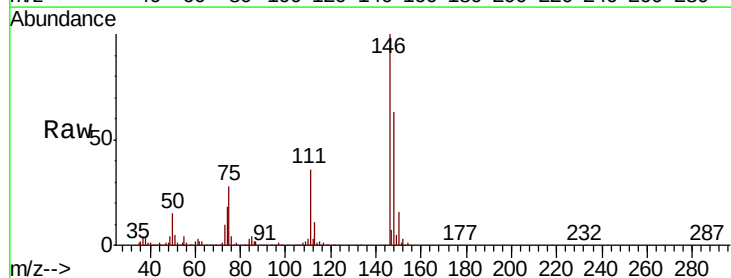
Instrument :
 MSVOA_V
 ClientSampled :

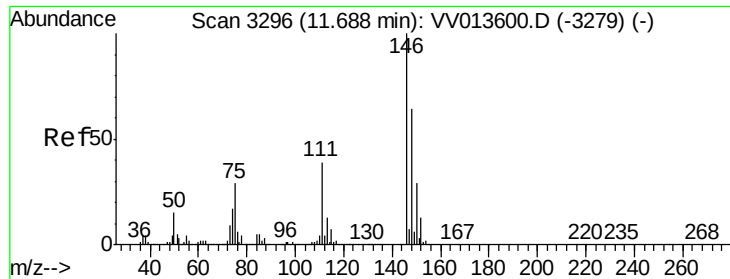
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	27.6	51.4
148	64.9	45.1	83.9



#63
 1,4-Dichlorobenzene
 Concen: 5.168 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	24.7	45.9
148	63.0	43.8	81.3





#65

1,2-Dichlorobenzene

Concen: 5.176 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

ClientSampleId :

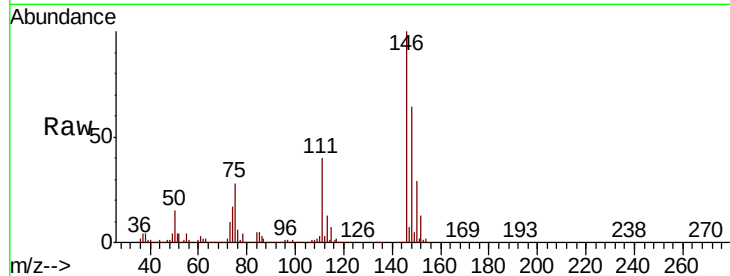
Tot Ion:146 Resp: 277478

Ion Ratio Lower Upper

146 100

111 39.9 31.4 47.0

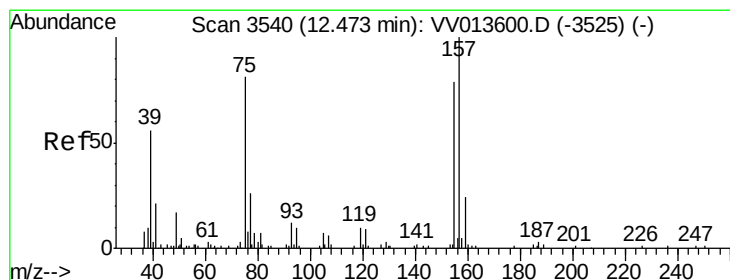
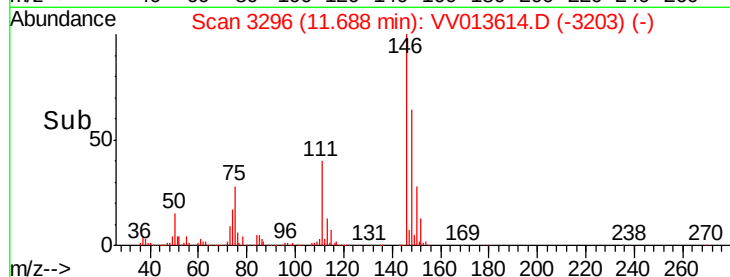
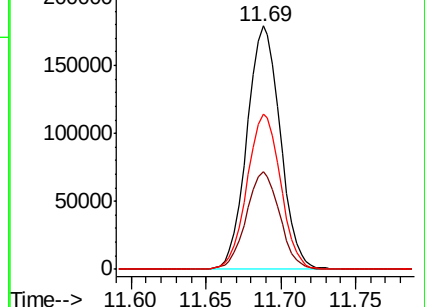
148 63.9 51.0 76.6



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: 5.128 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

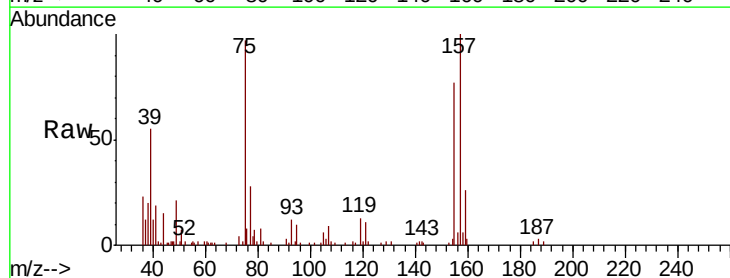
Tgt Ion: 75 Resp: 16822

Ion Ratio Lower Upper

75 100

155 79.1 78.3 117.5

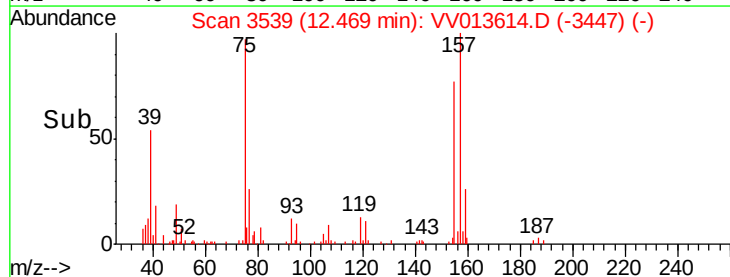
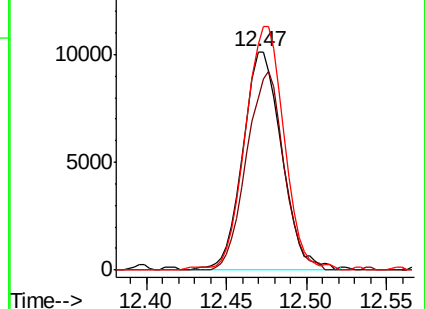
157 103.3 99.0 148.4

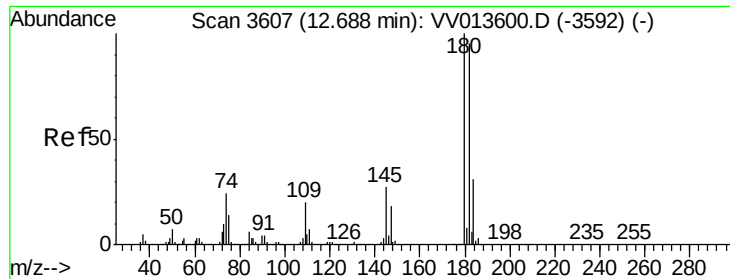


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

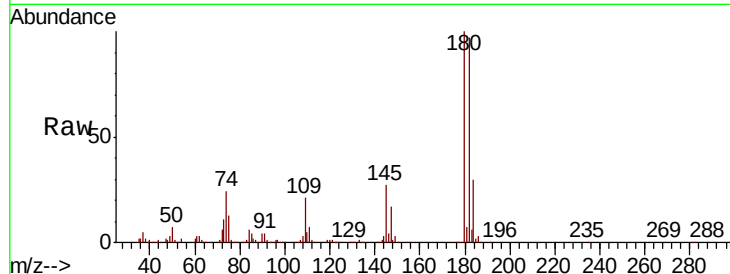




#67
 1,3,5-Trichlorobenzene
 Concen: 5.207 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.7	115.1
184	30.7	24.8	37.2
145	26.5	21.5	32.3



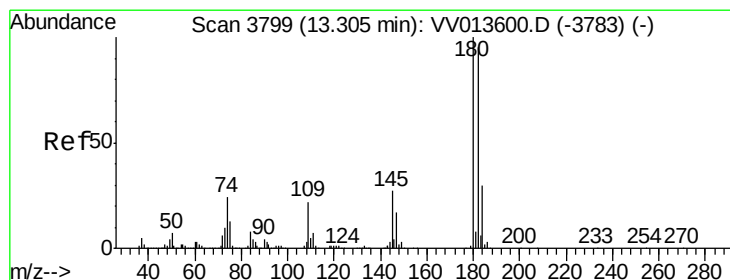
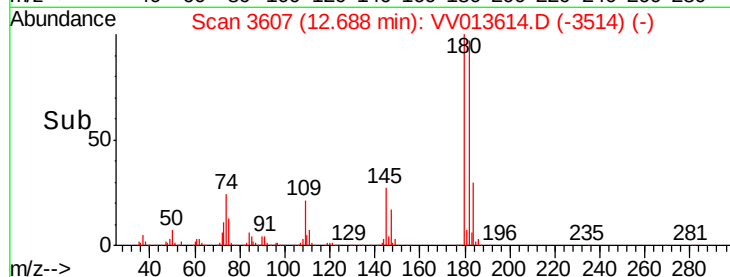
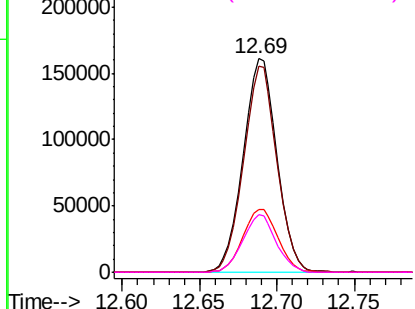
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

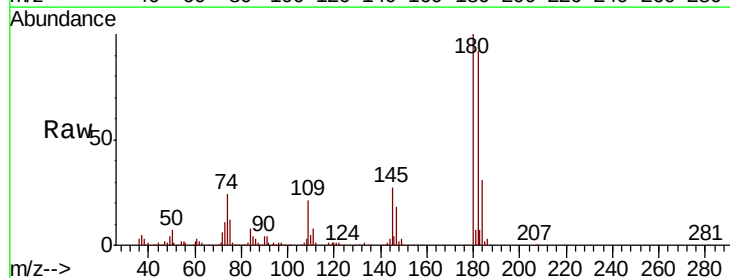
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.835 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013614.D
 Acq: 14 Nov 2019 09:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.7	113.5
145	27.5	21.9	32.9

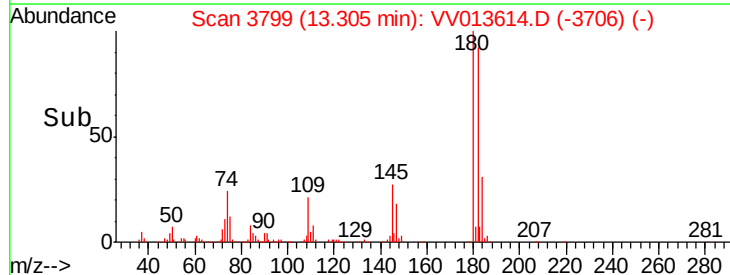
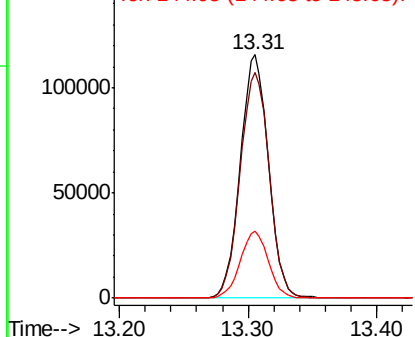


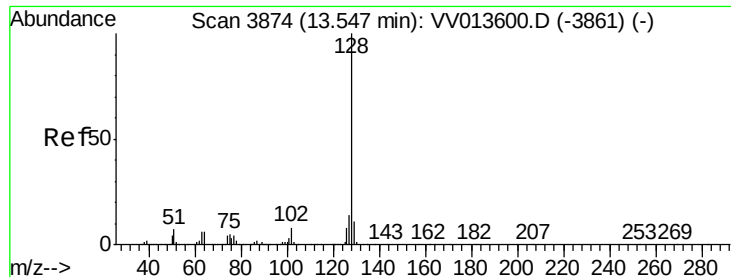
Abundance

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: 4.598 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

Instrument :

MSVOA_V

ClientSampleId :

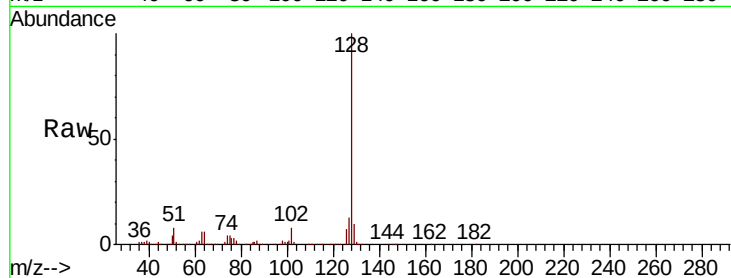
Tot Ion:128 Resp: 211126

Ion Ratio Lower Upper

128 100

129 10.9 8.2 12.4

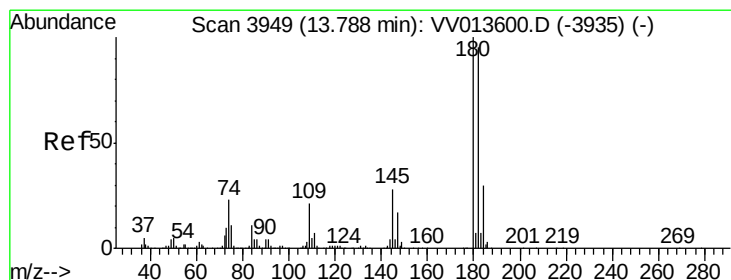
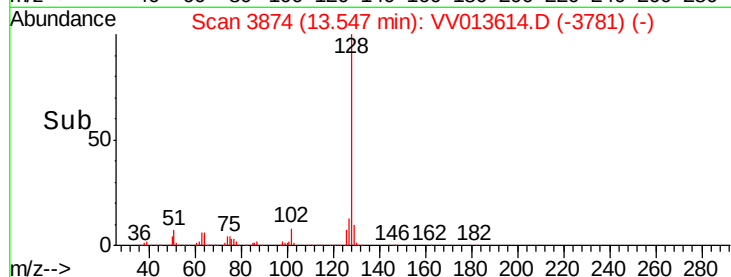
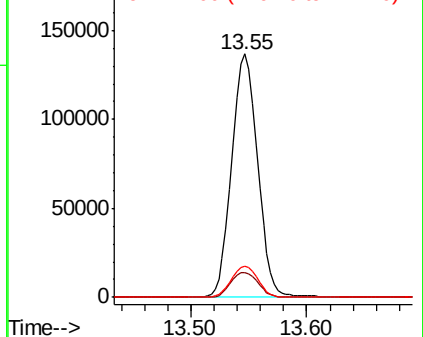
127 13.2 11.2 16.8



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: 4.999 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013614.D

Acq: 14 Nov 2019 09:22

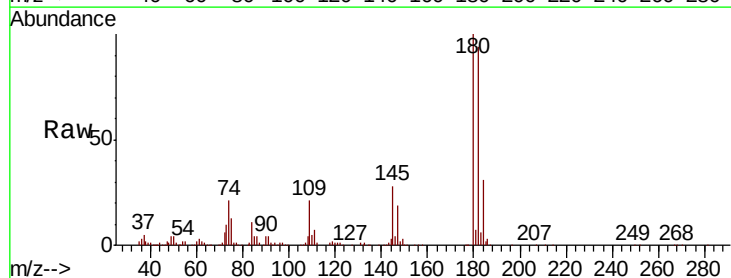
Tgt Ion:180 Resp: 169016

Ion Ratio Lower Upper

180 100

182 95.8 75.4 113.2

145 28.9 22.6 33.8



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

