

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110119\
 Data File : VV013465.D
 Acq On : 01 Nov 2019 13:05
 Operator : SY/MD
 Sample : VSTDICV025
 Misc : 5.00G/10.0ML/MSVOA V/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 02 03:58:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM110119S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Nov 02 03:55:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	696796	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	644357	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	363150	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	258738	26.37	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.48%
7) Chloroethane-d5	1.58	69	195791	27.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	109.40%
10) 1,1-Dichloroethene-d2	2.13	63	437076	25.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	102.48%
20) 2-Butanone-d5	3.93	46	225642	49.02	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.04%
24) Chloroform-d	4.40	84	487376	24.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.08	65	279868	24.78	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.12%
29) Benzene-d6	5.09	84	999989	26.43	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.72%
33) 1,2-Dichloropropane-d6	6.11	67	293537	25.43	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.72%
37) Toluene-d8	7.36	98	911378	26.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.56%
38) trans-1,3-Dichloropropene-	7.66	79	133524	26.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	106.48%
39) 2-Hexanone-d5	8.13	63	144668	58.61	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.22%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	274641	25.97	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.88%
61) 1,2-Dichlorobenzene-d4	11.67	152	349823	24.65	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	252359	23.221	ug/L 99
3) Chloromethane	1.25	50	266126	24.027	ug/L 98
5) Vinyl chloride	1.32	62	274684	25.326	ug/L 98
6) Bromomethane	1.53	94	125085	24.535	ug/L 97
8) Chloroethane	1.60	64	149982	24.914	ug/L 99
9) Trichlorofluoromethane	1.77	101	373803	25.172	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	220807	24.915	ug/L 99
12) 1,1-Dichloroethene	2.14	96	210291	25.103	ug/L 97
13) Acetone	2.19	43	217599	40.446	ug/L 98
14) Carbon disulfide	2.32	76	816319	25.121	ug/L 100
15) Methyl Acetate	2.46	43	197258	24.361	ug/L 99
16) Methylene chloride	2.53	84	298338	23.004	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	672592	24.469	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	278773	24.953	ug/L 97
19) 1,1-Dichloroethane	3.23	63	497050	24.406	ug/L 99
21) 2-Butanone	4.01	43	267655	48.236	ug/L 100
22) cis-1,2-Dichloroethene	3.96	96	291901	24.861	ug/L 96

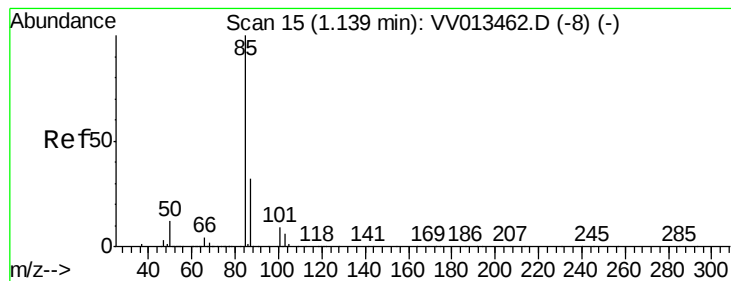
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110119\
 Data File : VV013465.D
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 Quant Title : VOC Analysis
 QLast Update : Sat Nov 02 03:55:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	140372	24.907	ug/L	97
25) Chloroform	4.42	83	500048	23.984	ug/L	100
27) 1,2-Dichloroethane	5.17	62	348853	24.094	ug/L	99
30) Cyclohexane	4.72	56	482120	27.707	ug/L	100
31) 1,1,1-Trichloroethane	4.65	97	428639	26.212	ug/L	98
32) Carbon tetrachloride	4.87	117	386365	26.532	ug/L	99
34) Benzene	5.14	78	1112393	26.319	ug/L	100
35) Trichloroethene	5.96	95	292899	25.668	ug/L	100
36) Methylcyclohexane	6.17	83	480693	26.912	ug/L	99
40) 1,2-Dichloropropane	6.22	63	269346	25.301	ug/L	100
41) Bromodichloromethane	6.55	83	346103	25.262	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	416214	26.370	ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	501899	51.080	ug/L	98
44) Toluene	7.43	91	1164421	26.963	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	341820	25.265	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	213412	25.021	ug/L	98
47) Tetrachloroethene	8.01	164	252768	26.125	ug/L	97
49) 2-Hexanone	8.18	43	393521	55.014	ug/L	97
50) Dibromochloromethane	8.29	129	254318	24.938	ug/L	99
51) 1,2-Dibromoethane	8.39	107	221400	25.112	ug/L	99
52) Chlorobenzene	8.92	112	734902	25.147	ug/L	100
53) Ethylbenzene	9.05	91	1267249	26.627	ug/L	100
54) m,p-Xylene	9.18	106	492423	27.509	ug/L	99
55) o-xylene	9.58	106	473304	27.958	ug/L	94
56) Styrene	9.60	104	829850	28.268	ug/L	98
57) Isopropylbenzene	9.97	105	1253871	27.454	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	284487	26.000	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	236333	25.773	ug/L	100
62) Bromoform	9.77	173	177280	24.635	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	642889	25.642	ug/L	99
64) 1,4-Dichlorobenzene	11.31	146	639623	24.949	ug/L	98
65) 1,2-Dichlorobenzene	11.68	146	579857	24.887	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	51480	24.020	ug/L	89
67) 1,3,5-Trichlorobenzene	12.69	180	526487	26.557	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	450504	26.653	ug/L	99
69) Naphthalene	13.55	128	907775	27.772	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	426593	26.975	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 23.221 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

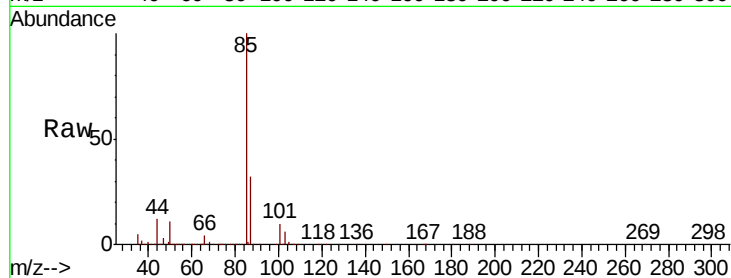
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 252359

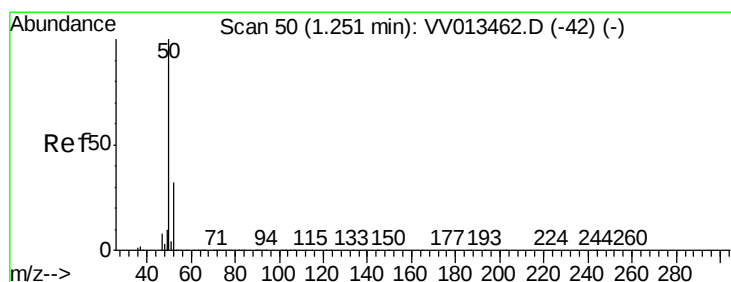
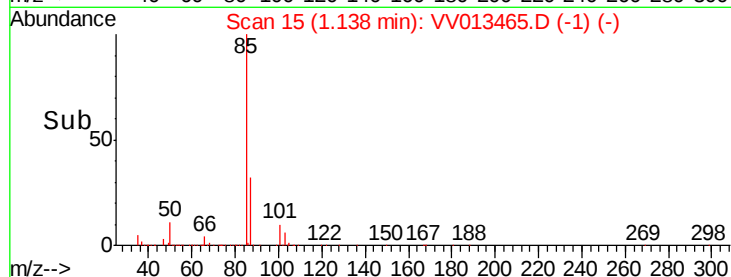
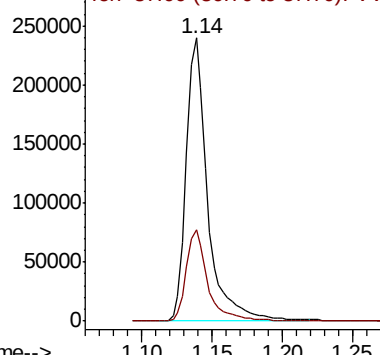
Ion Ratio Lower Upper

85 100

87 32.1 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV0
Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 24.027 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013465.D

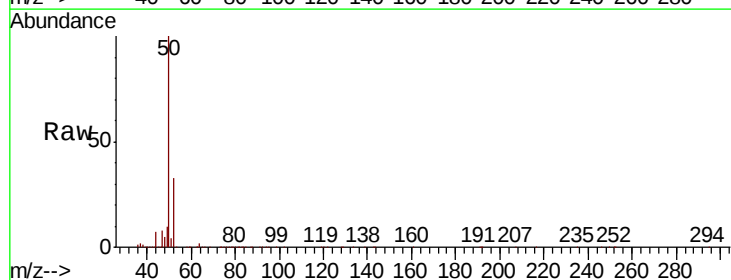
Acq: 01 Nov 2019 13:05

Tgt Ion: 50 Resp: 266126

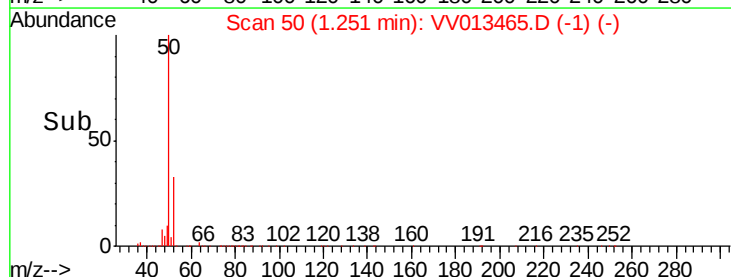
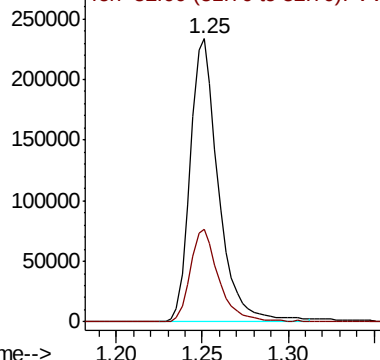
Ion Ratio Lower Upper

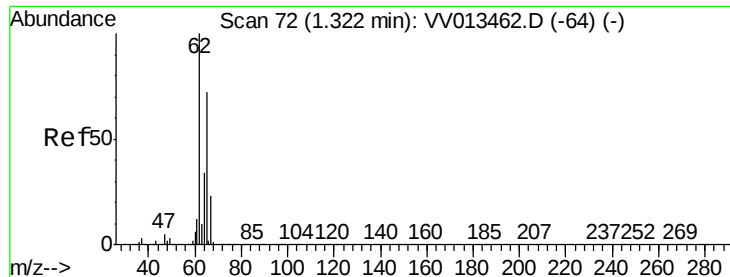
50 100

52 32.9 22.2 41.2



Abundance Ion 50.00 (49.70 to 50.70): VV0
Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 25.326 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

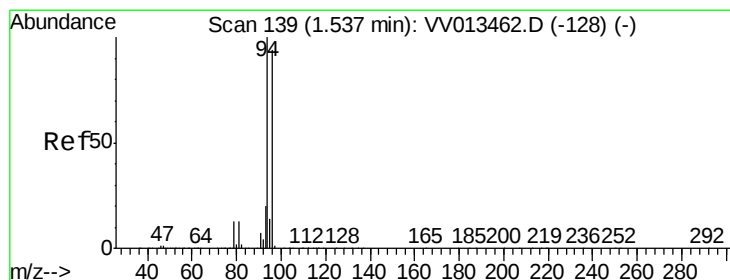
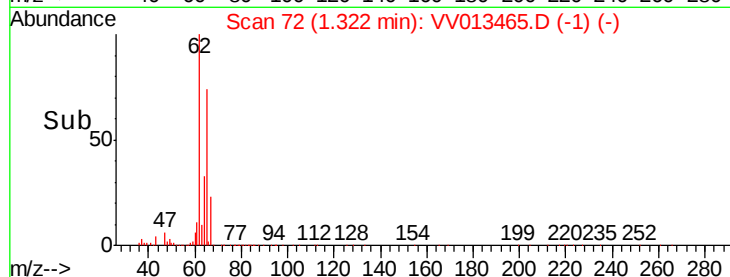
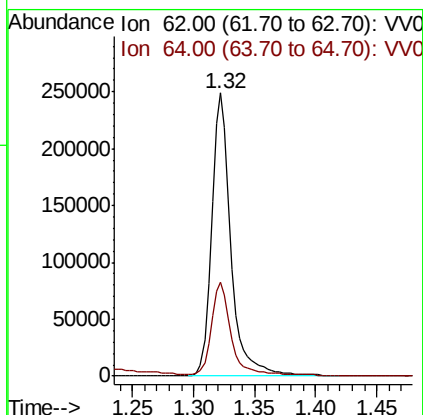
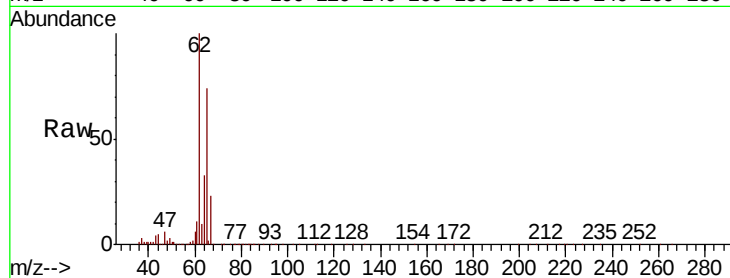
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 274684

Ion Ratio Lower Upper

62 100

64 33.0 23.8 44.2



#6

Bromomethane

Concen: 24.535 ug/L

RT: 1.53 min Scan# 136

Delta R.T. -0.01 min

Lab File: VV013465.D

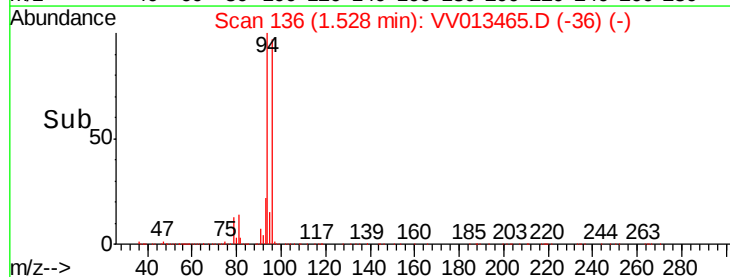
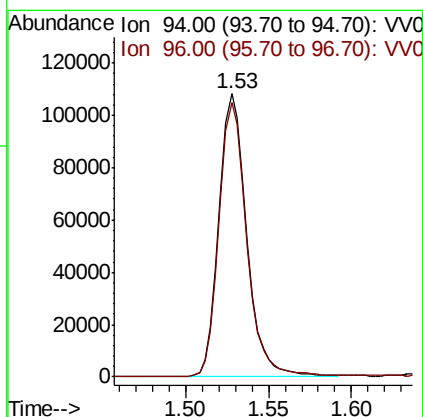
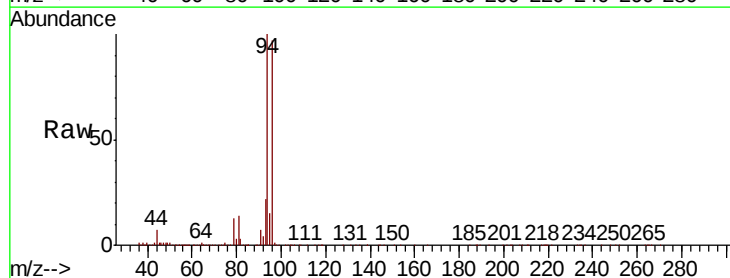
Acq: 01 Nov 2019 13:05

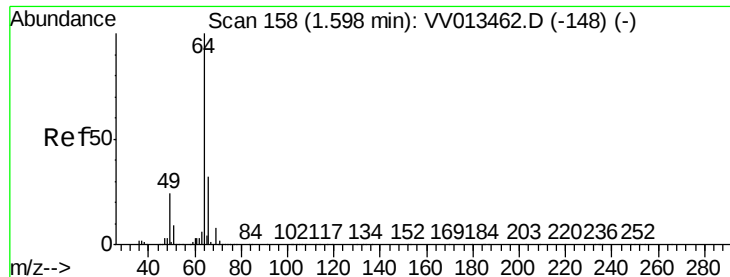
Tgt Ion: 94 Resp: 125085

Ion Ratio Lower Upper

94 100

96 96.5 9.4 177.8





#8

Chloroethane

Concen: 24.914 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

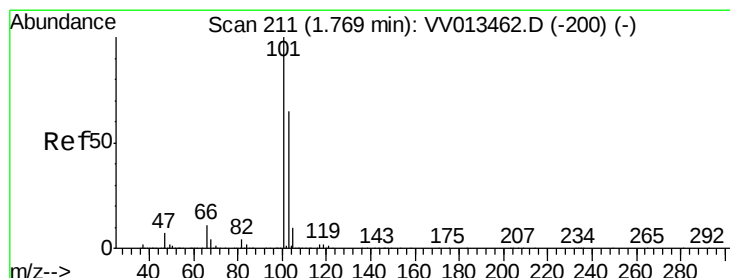
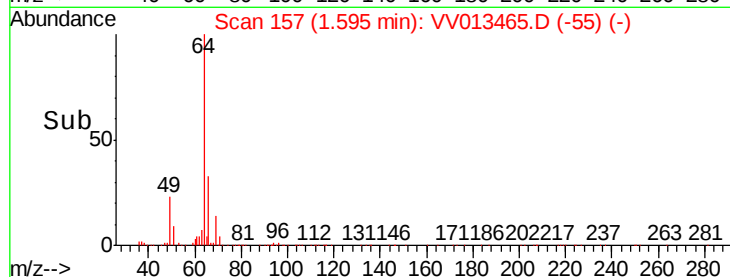
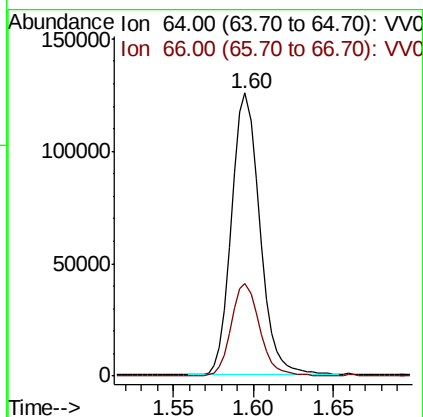
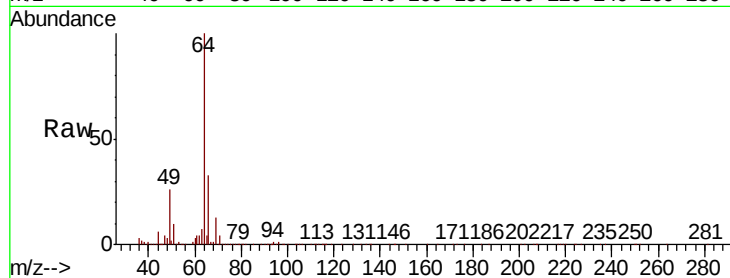
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 149982

Ion Ratio Lower Upper

64 100

66 32.5 22.3 41.3



#9

Trichlorofluoromethane

Concen: 25.172 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV013465.D

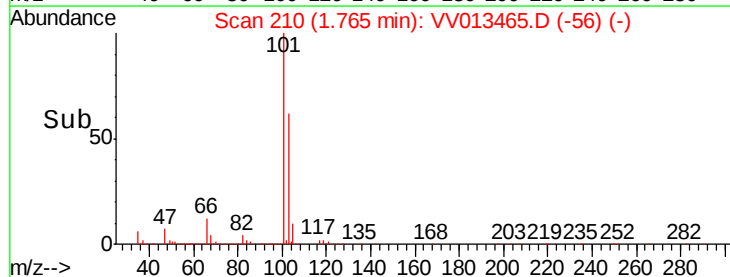
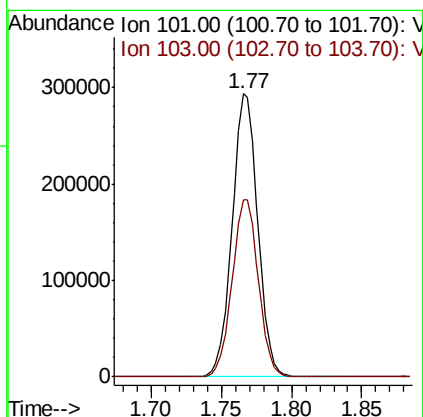
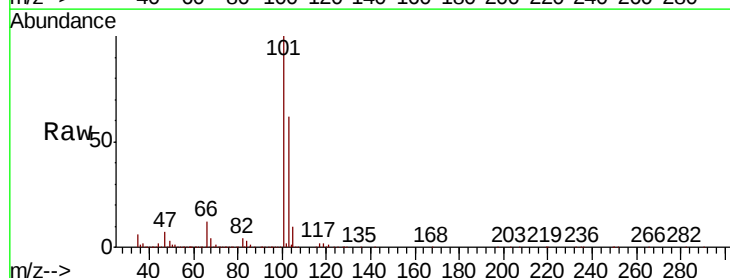
Acq: 01 Nov 2019 13:05

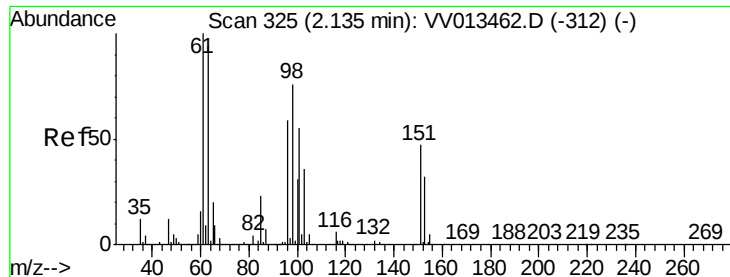
Tgt Ion: 101 Resp: 373803

Ion Ratio Lower Upper

101 100

103 63.8 45.1 83.9





#11

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

Concen: 24.915 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :

MSVOA_V

ClientSampleId :

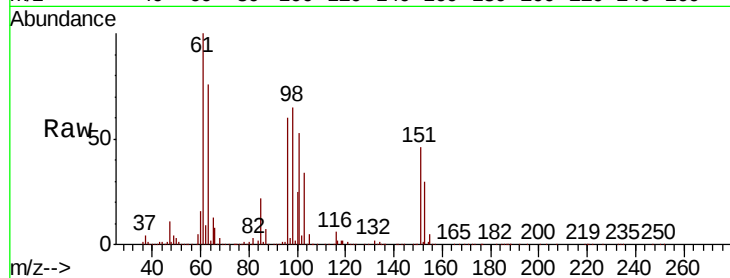
Tot Ion:101 Resp: 220807

Ion Ratio Lower Upper

101 100

85 40.6 33.1 49.7

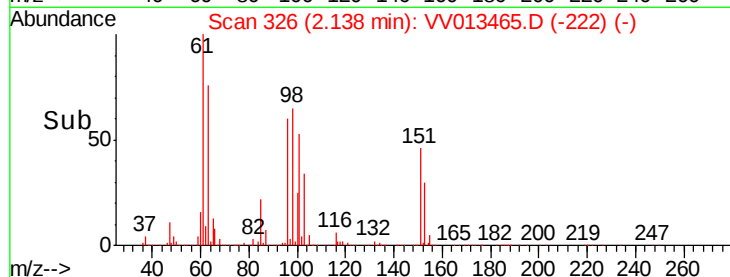
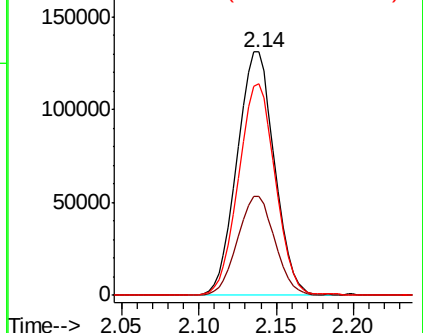
151 85.8 68.3 102.5



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: 25.103 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

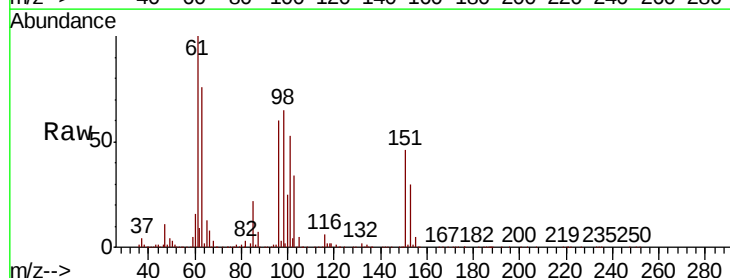
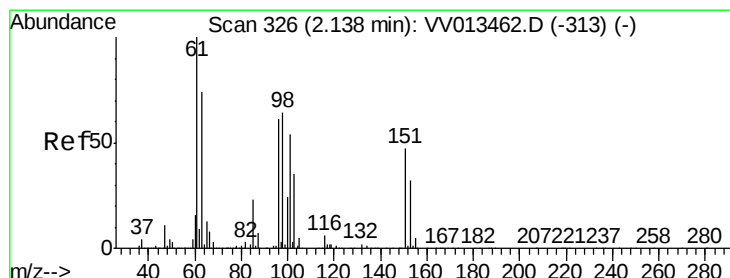
Tgt Ion: 96 Resp: 210291

Ion Ratio Lower Upper

96 100

61 165.9 114.7 212.9

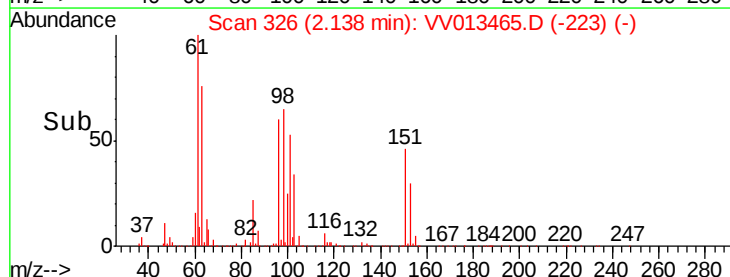
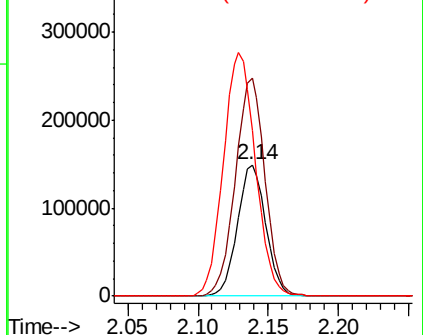
63 125.9 84.7 157.3

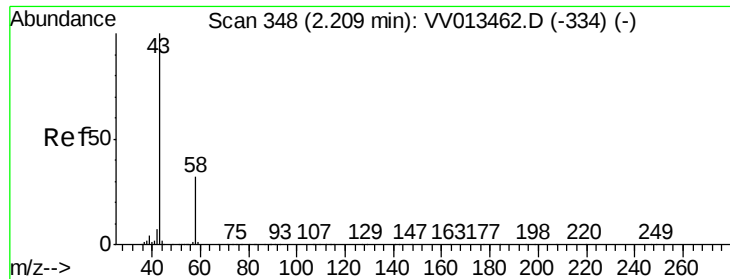


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

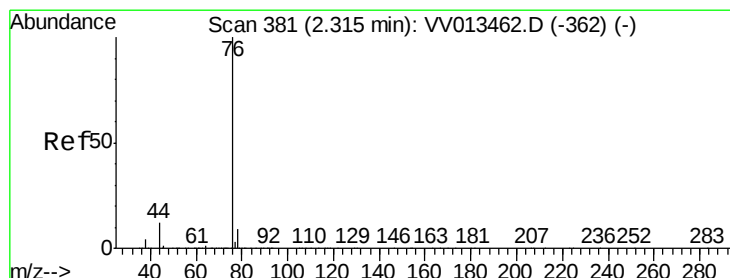
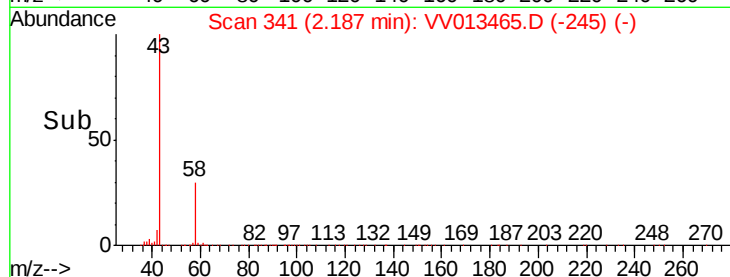
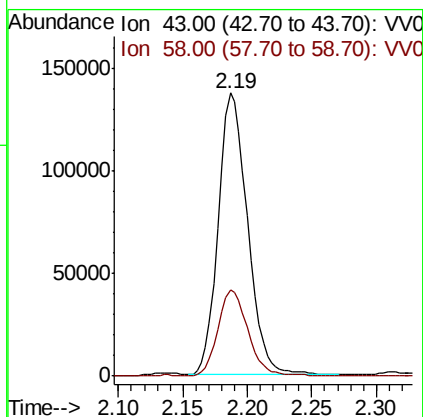
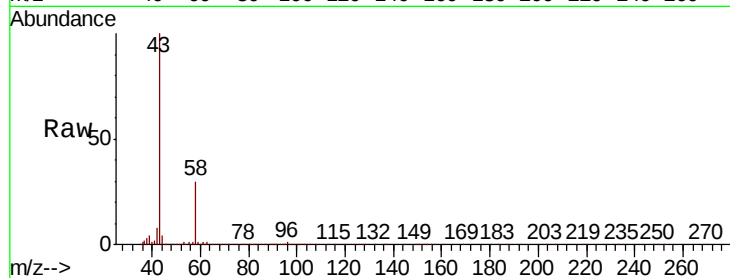




#13
Acetone
Concen: 40.446 ug/L
RT: 2.19 min Scan# 341
Delta R.T. -0.02 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

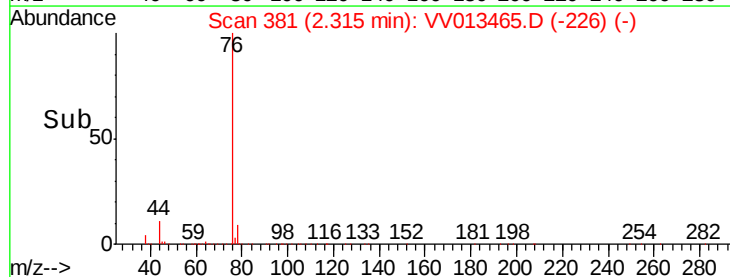
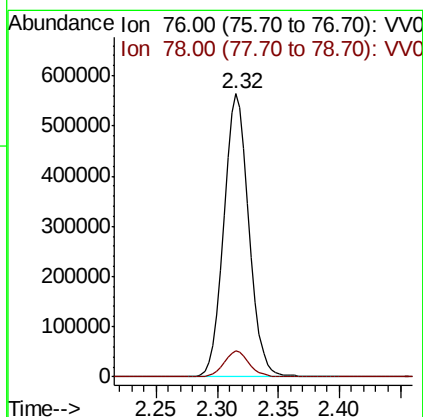
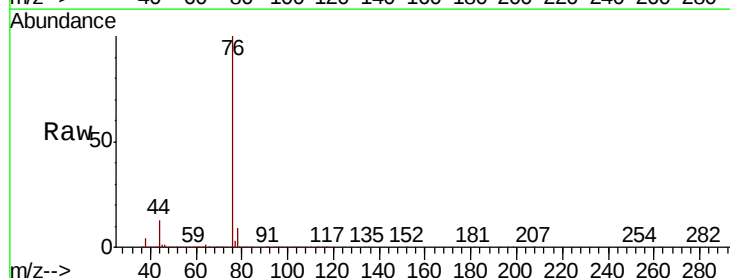
Instrument :
MSVOA_V
ClientSampled :

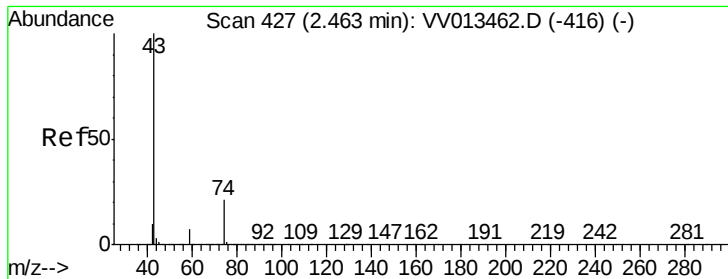
Tot Ion: 43 Resp: 217599
Ion Ratio Lower Upper
43 100
58 30.8 0.0 63.2



#14
Carbon disulfide
Concen: 25.121 ug/L
RT: 2.32 min Scan# 381
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion: 76 Resp: 816319
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7

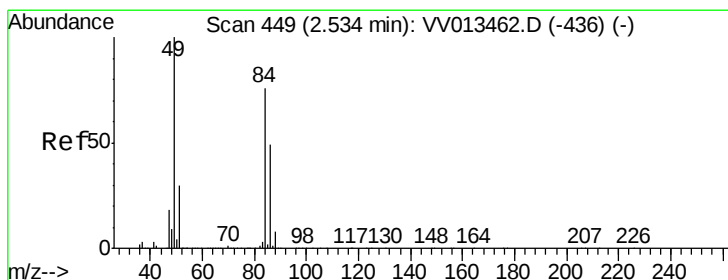
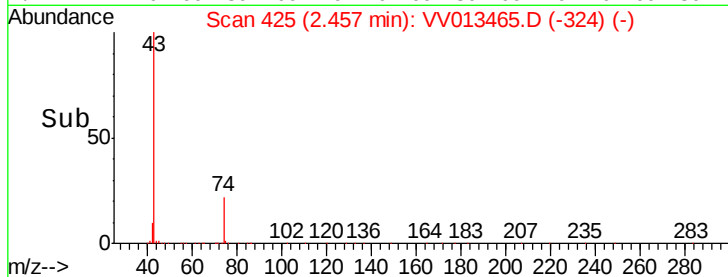
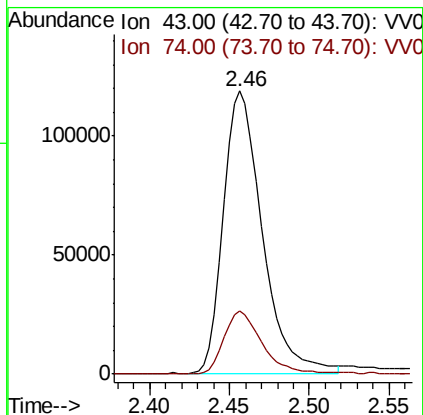
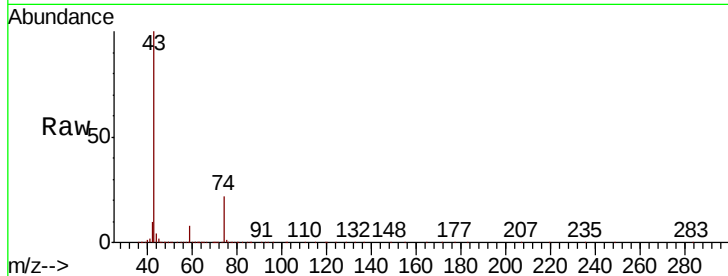




#15
Methvl Acetate
Concen: 24.361 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.01 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

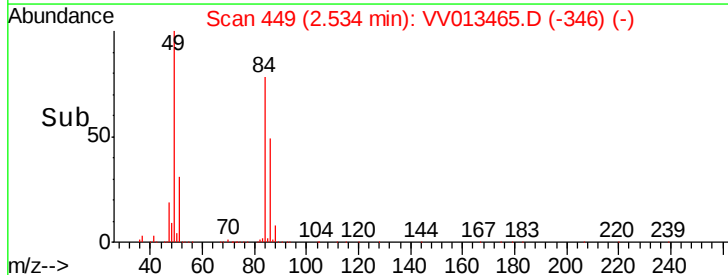
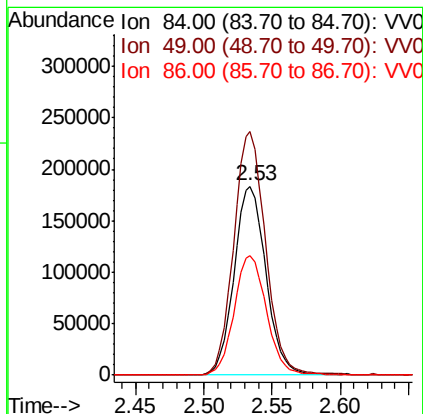
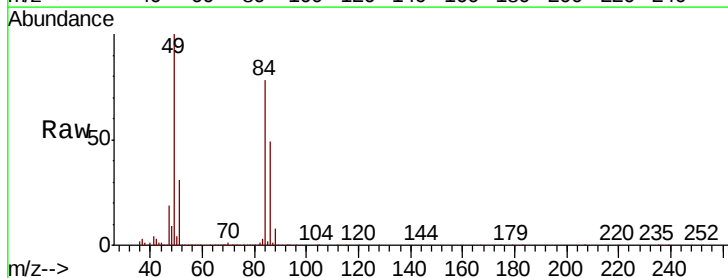
Instrument :
MSVOA_V
ClientSampled :

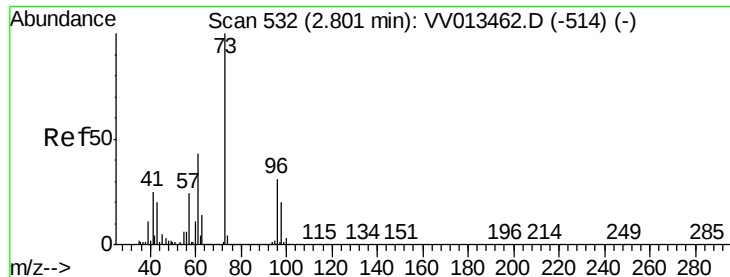
Tot Ion: 43 Resp: 197258
Ion Ratio Lower Upper
43 100
74 21.5 16.9 25.3



#16
Methylene chloride
Concen: 23.004 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion: 84 Resp: 298338
Ion Ratio Lower Upper
84 100
49 129.0 92.4 171.6
86 63.6 45.1 83.7

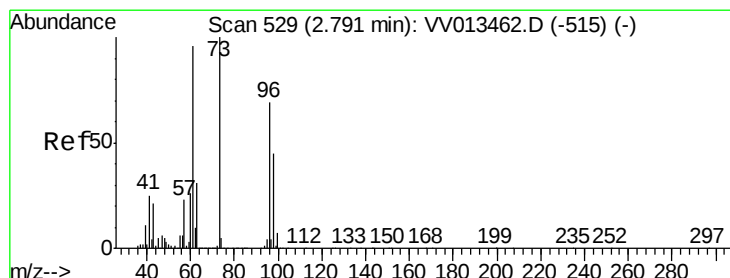
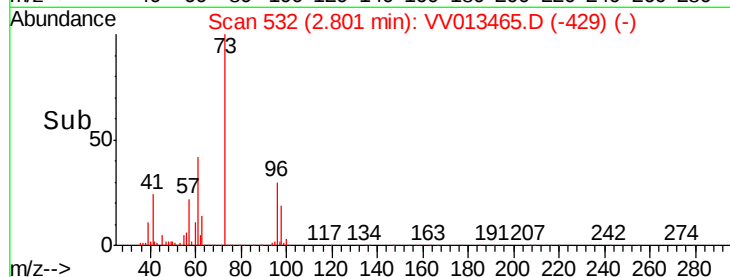
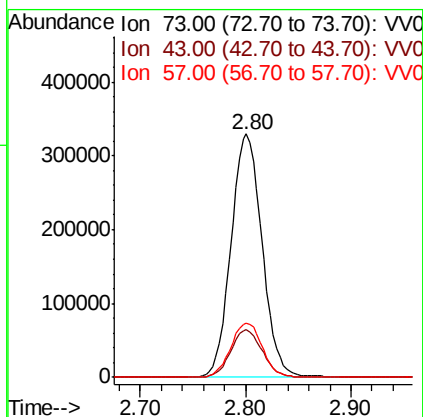
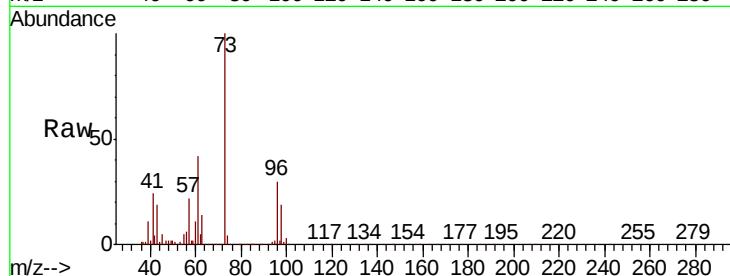




#17
Methvl tert-butvl Ether
Concen: 24.469 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

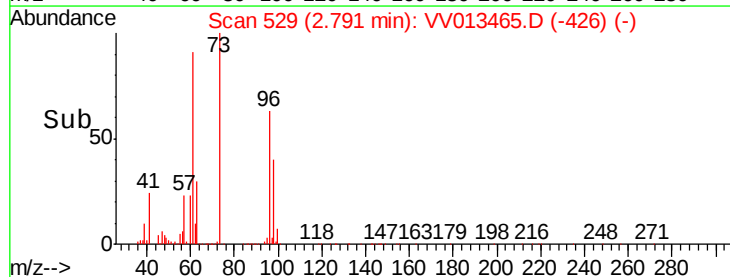
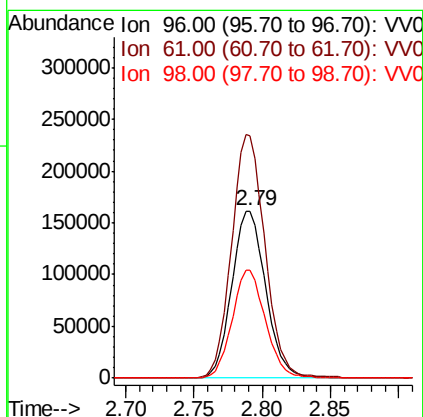
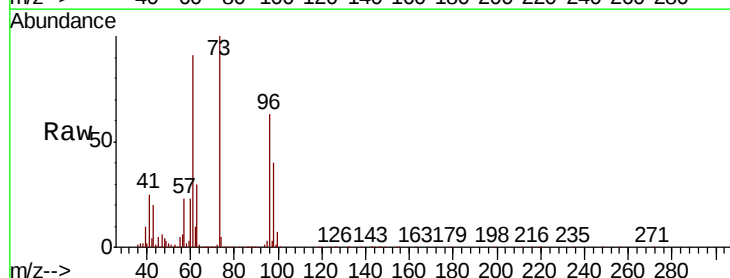
Instrument :
MSVOA_V
ClientSampleId :

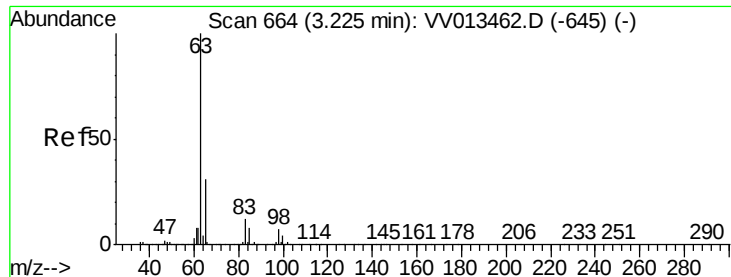
Tot Ion: 73 Resp: 672592
Ion Ratio Lower Upper
73 100
43 19.6 16.2 24.2
57 22.7 18.6 27.8



#18
trans-1,2-Dichloroethene
Concen: 24.953 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion: 96 Resp: 278773
Ion Ratio Lower Upper
96 100
61 144.8 98.0 182.0
98 64.5 45.6 84.8

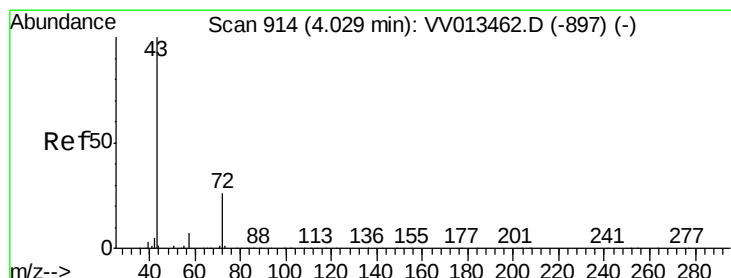
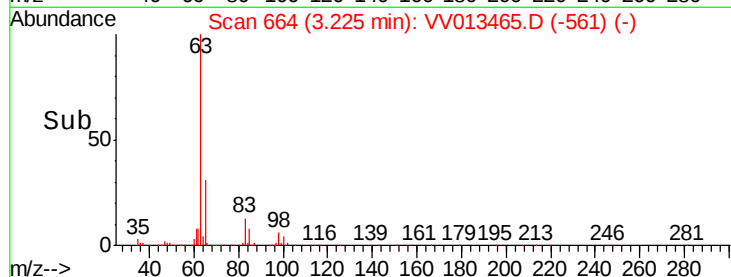
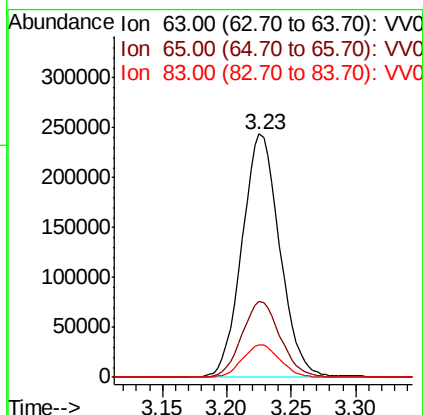
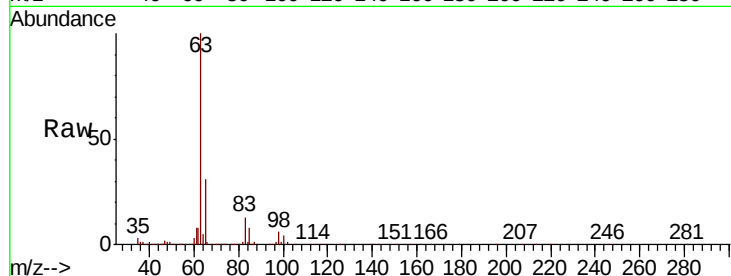




#19
1,1-Dichloroethane
Concen: 24.406 ug/L
RT: 3.23 min Scan# 664
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

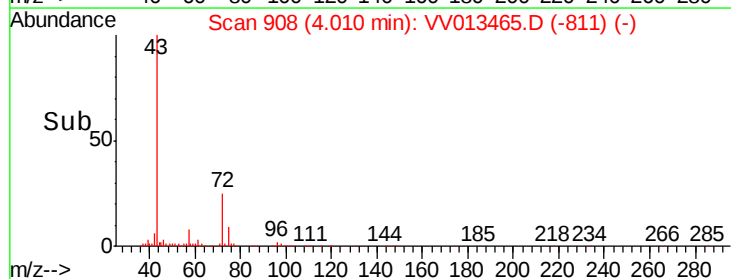
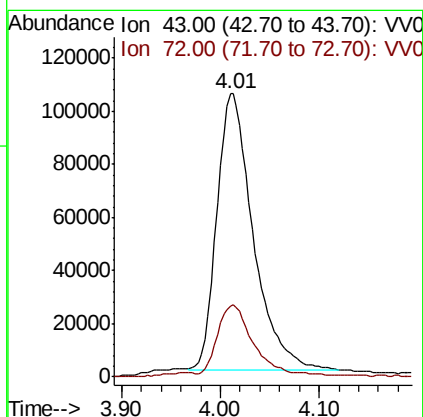
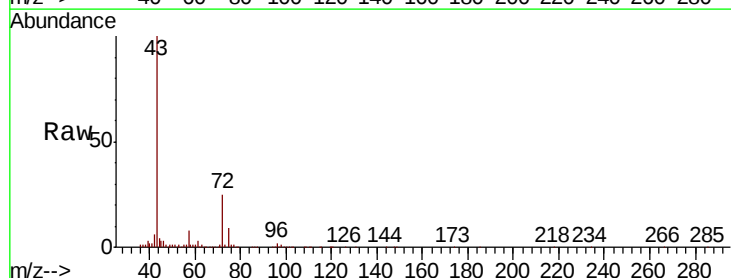
Instrument :
MSVOA_V
ClientSampleId :

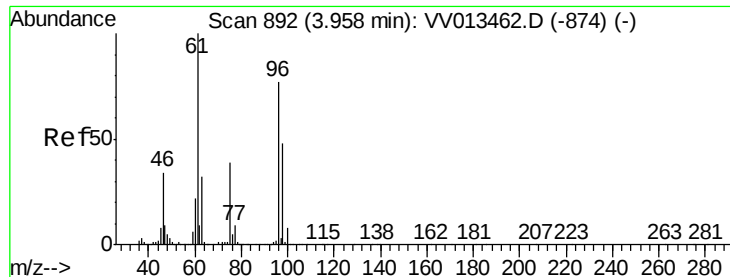
Tot Ion: 63 Resp: 497050
Ion Ratio Lower Upper
63 100
65 31.2 21.7 40.3
83 13.4 8.8 16.3



#21
2-Butanone
Concen: 48.236 ug/L
RT: 4.01 min Scan# 908
Delta R.T. -0.02 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion: 43 Resp: 267655
Ion Ratio Lower Upper
43 100
72 24.3 12.1 36.3



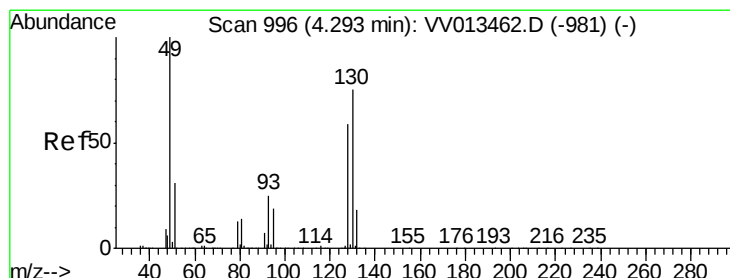
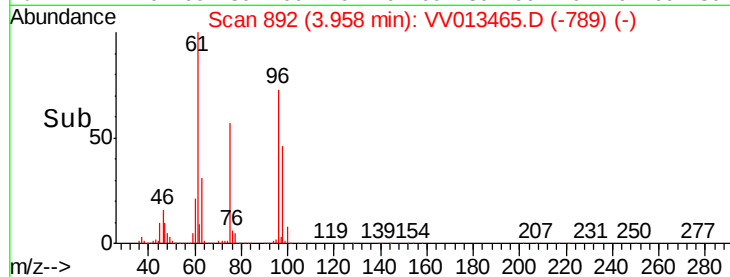
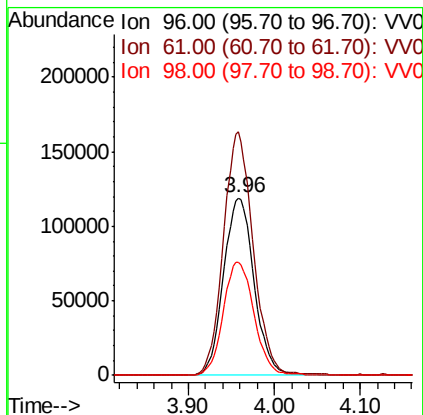
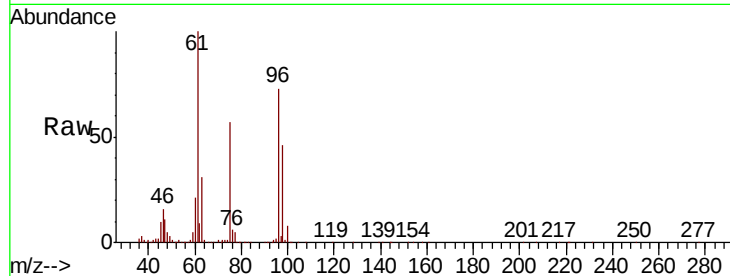


#22

cis-1,2-Dichloroethene
Concen: 24.861 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Instrument :
MSVOA_V
ClientSampleId :

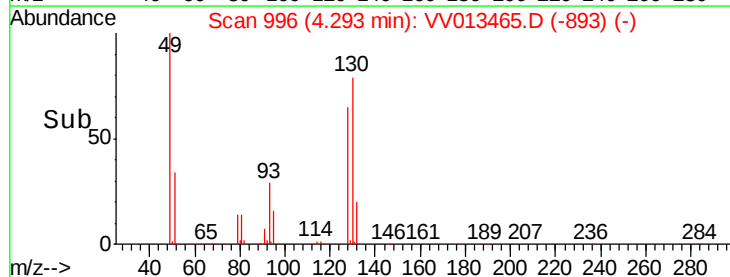
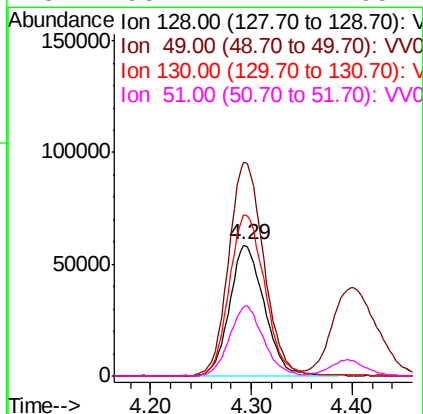
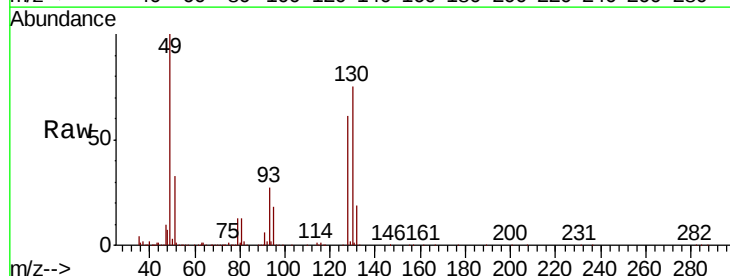
Tot Ion	Ratio	Lower	Upper
96	100		
61	137.2	91.5	169.9
98	63.7	43.8	81.3

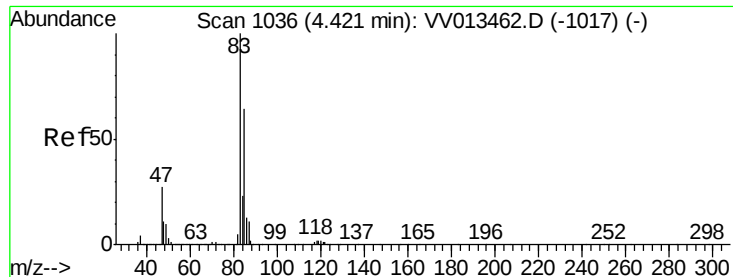


#23

Bromochloromethane
Concen: 24.907 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion	Ratio	Lower	Upper
128	100		
49	163.4	118.2	219.4
130	123.0	89.0	165.4
51	53.1	42.2	63.4





#25

Chloroform

Concen: 23.984 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

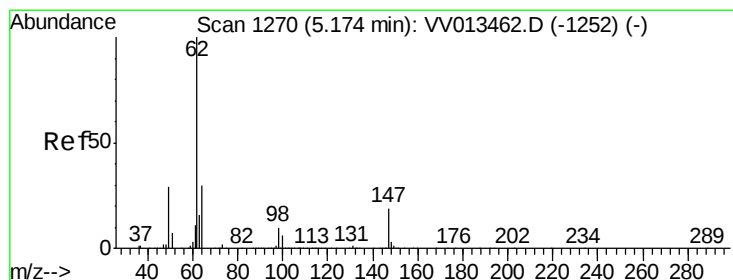
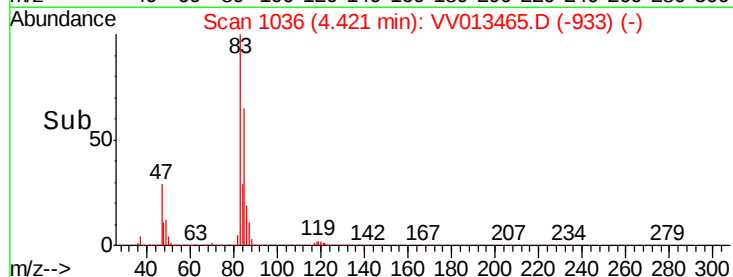
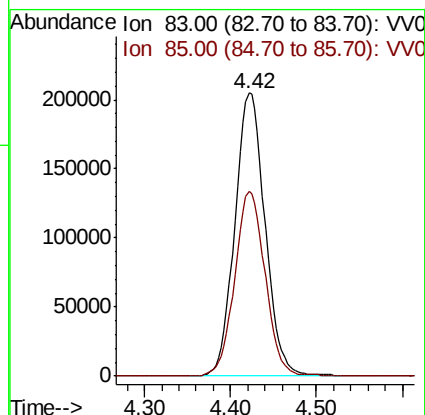
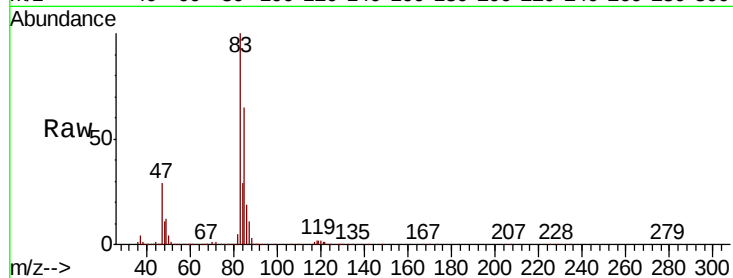
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 500048

Ion Ratio Lower Upper

83 100

85 65.5 45.8 85.0



#27

1,2-Dichloroethane

Concen: 24.094 ug/L

RT: 5.17 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VV013465.D

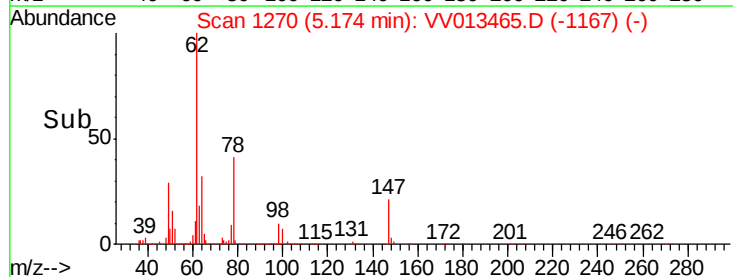
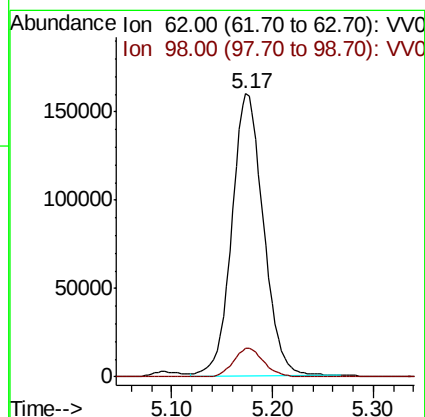
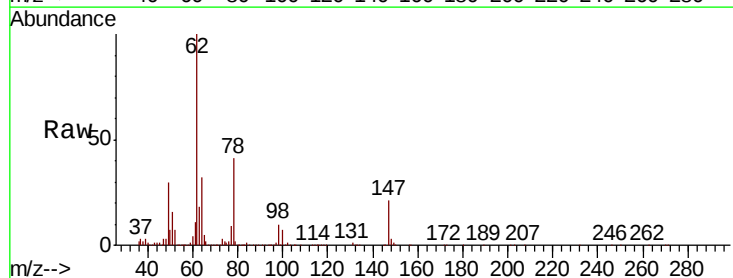
Acq: 01 Nov 2019 13:05

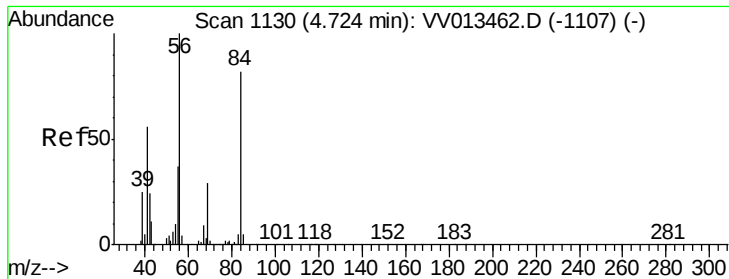
Tgt Ion: 62 Resp: 348853

Ion Ratio Lower Upper

62 100

98 10.0 7.8 11.6

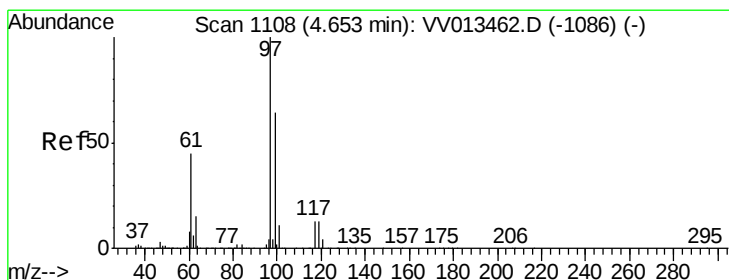
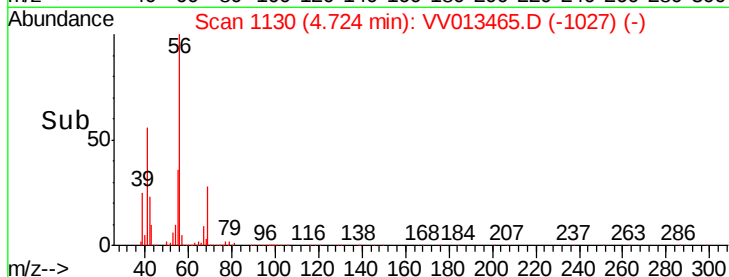
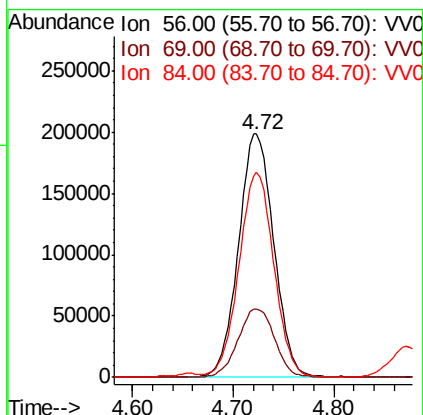
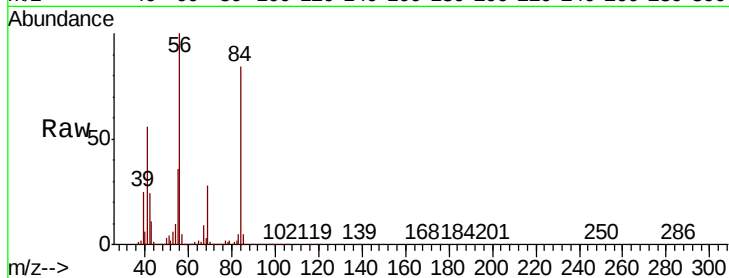




#30
Cyclohexane
Concen: 27.707 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

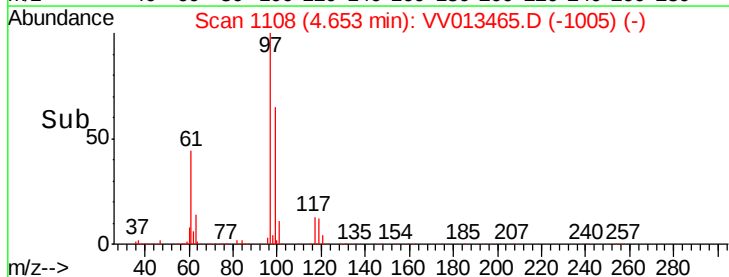
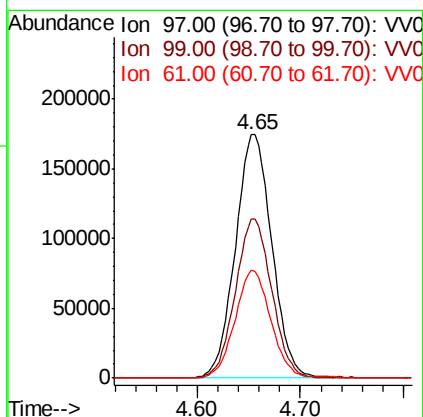
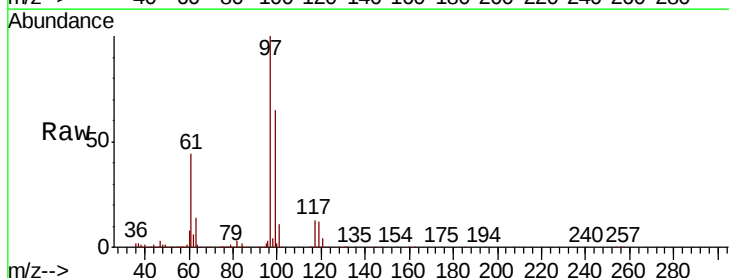
Instrument :
MSVOA_V
ClientSampleId :

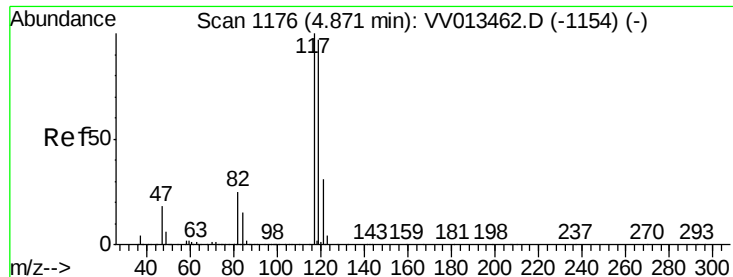
Tot Ion: 56 Resp: 482120
Ion Ratio Lower Upper
56 100
69 29.1 23.0 34.6
84 83.2 66.2 99.4



#31
1,1,1-Trichloroethane
Concen: 26.212 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion: 97 Resp: 428639
Ion Ratio Lower Upper
97 100
99 65.2 51.1 76.7
61 43.5 36.3 54.5



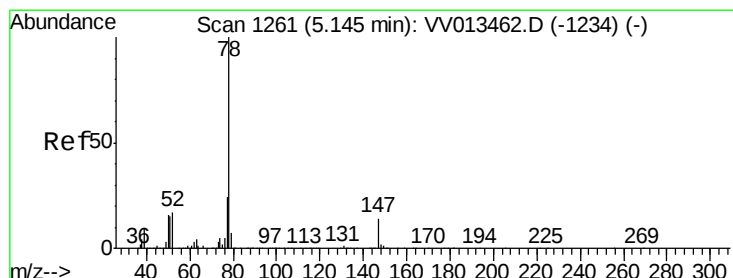
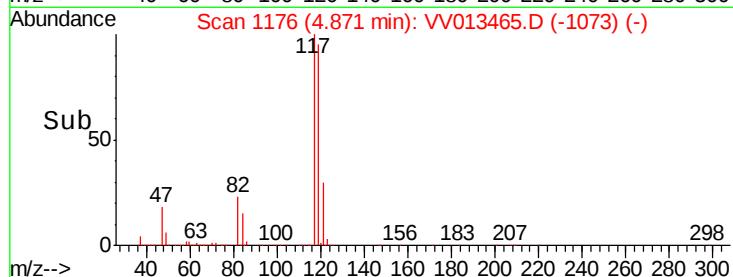
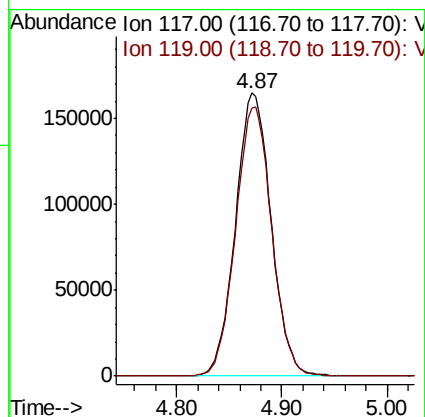
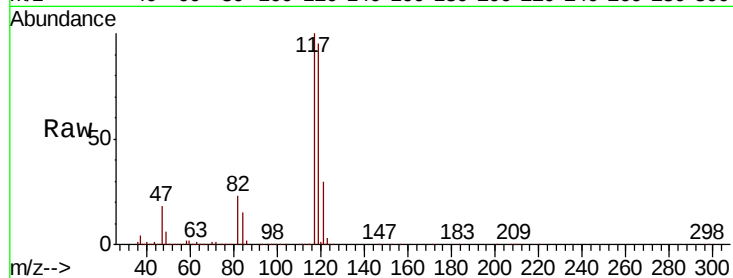


#32

Carbon tetrachloride
 Concen: 26.532 ug/L
 RT: 4.87 min Scan# 1176
 Delta R.T. -0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

Instrument :
 MSVOA_V
 ClientSampleId :

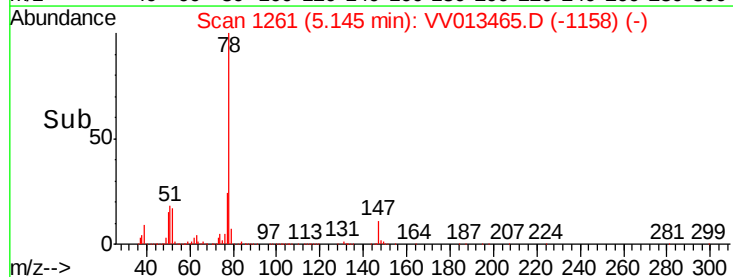
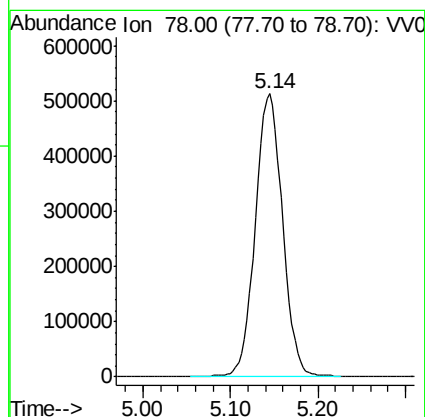
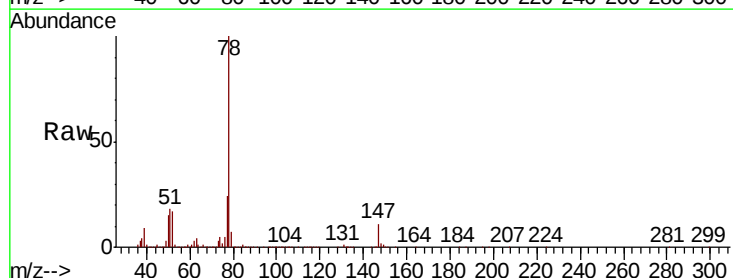
Tot Ion:117 Resp: 386365
 Ion Ratio Lower Upper
 117 100
 119 96.2 77.4 116.0

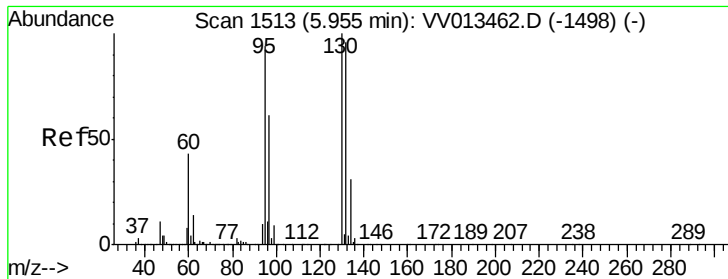


#34

Benzene
 Concen: 26.319 ug/L
 RT: 5.14 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

Tgt Ion: 78 Resp: 1112393





#35

Trichloroethene

Concen: 25.668 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 292899

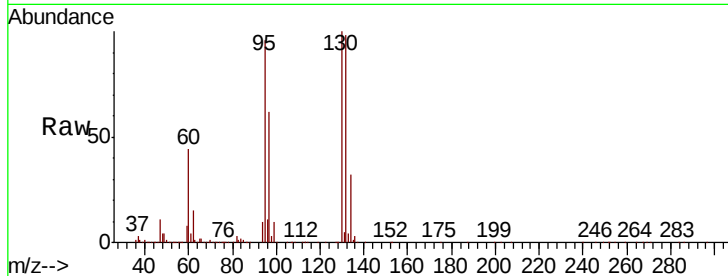
Ion Ratio Lower Upper

95 100

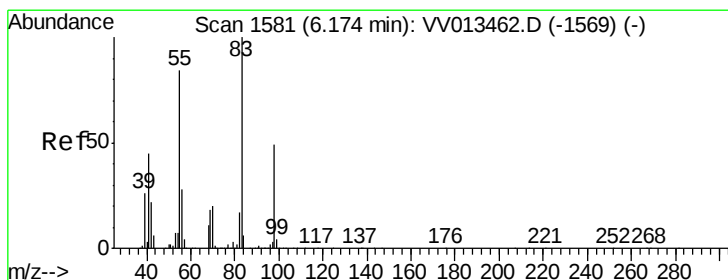
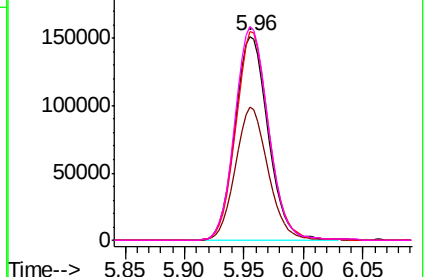
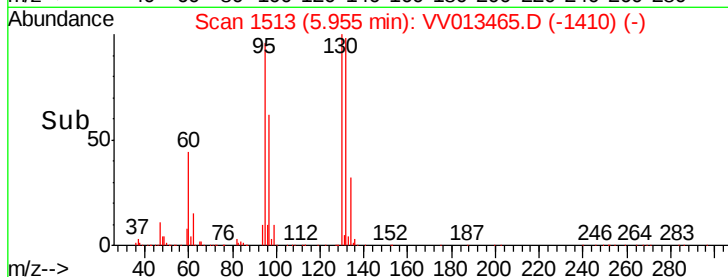
97 64.3 44.7 83.1

132 101.6 71.0 131.8

130 106.0 74.1 137.7



Abundance Ion 95.00 (94.70 to 95.70): VV0
Ion 97.00 (96.70 to 97.70): VV0
Ion 132.00 (131.70 to 132.70): VV0
Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 26.912 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

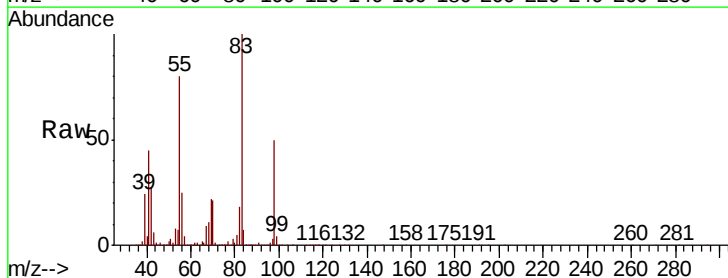
Tgt Ion: 83 Resp: 480693

Ion Ratio Lower Upper

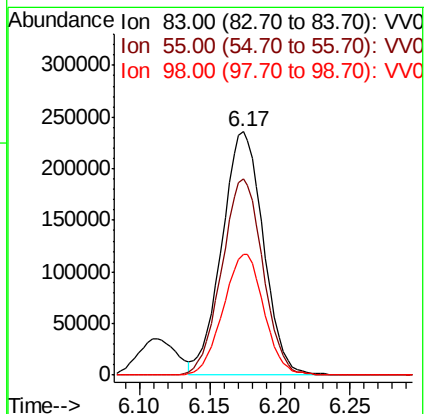
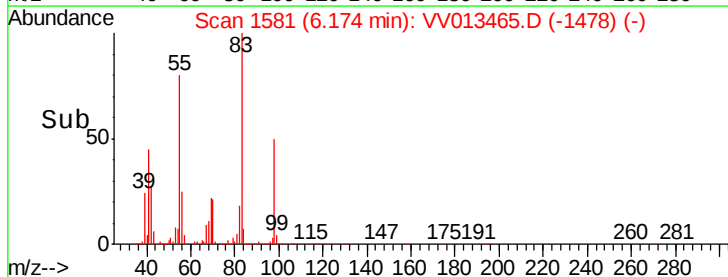
83 100

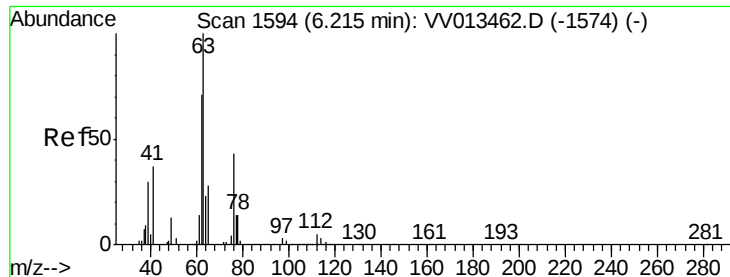
55 80.3 64.2 96.4

98 49.1 38.4 57.6



Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 25.301 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :

MSVOA_V

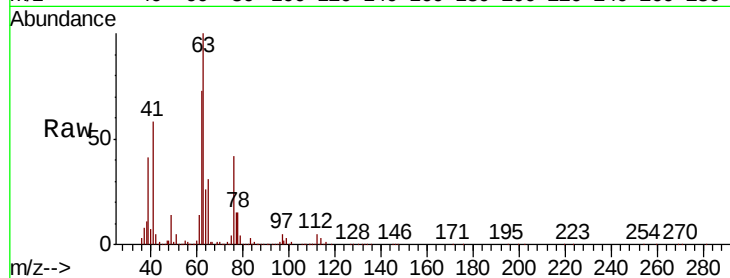
ClientSampleId :

Tot Ion: 63 Resp: 269346

Ion Ratio Lower Upper

63 100

112 4.7 3.8 5.6



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V

6.22

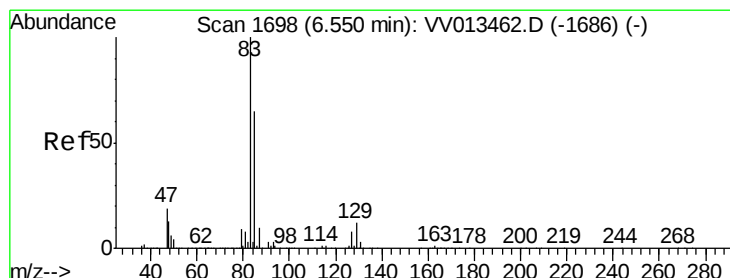
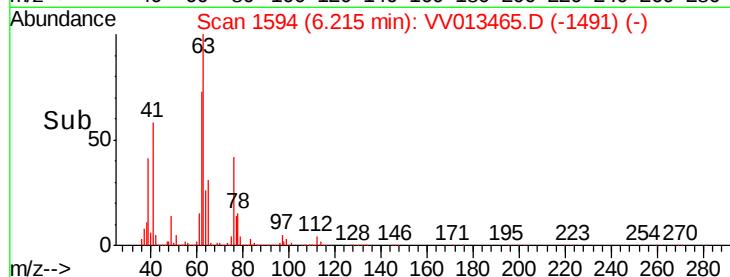
150000

100000

50000

0

Time--> 6.10 6.15 6.20 6.25 6.30



#41

Bromodichloromethane

Concen: 25.262 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

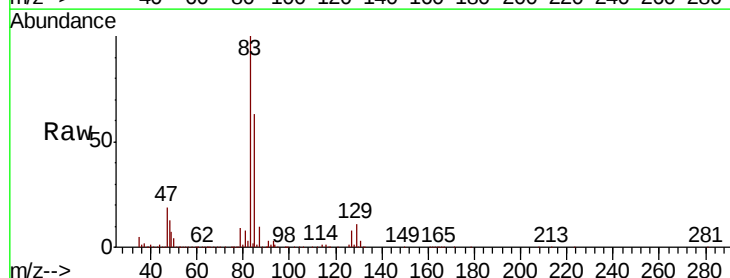
Tgt Ion: 83 Resp: 346103

Ion Ratio Lower Upper

83 100

85 63.2 45.4 84.4

127 8.4 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 127.00 (126.70 to 127.70): V

250000

200000

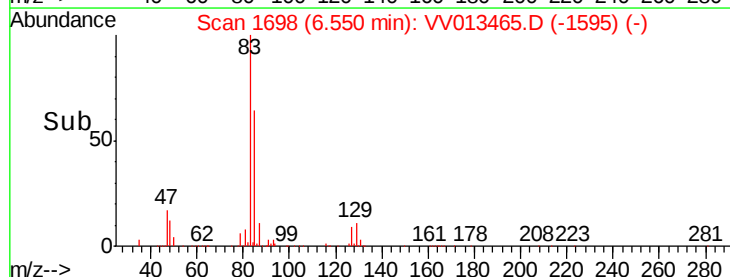
150000

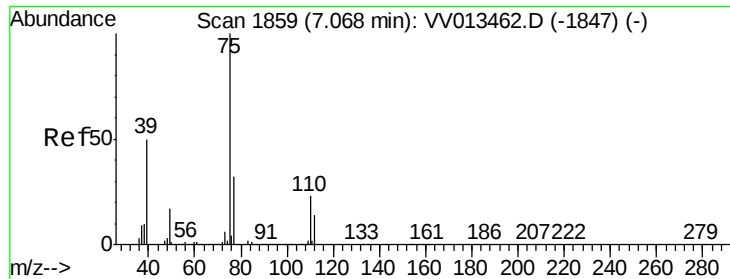
100000

50000

0

Time--> 6.45 6.50 6.55 6.60 6.65



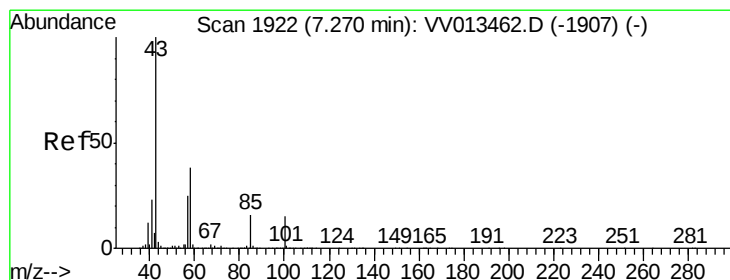
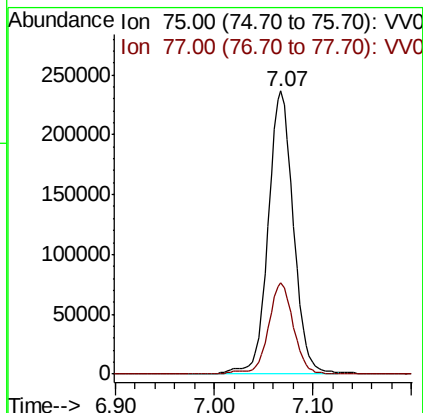
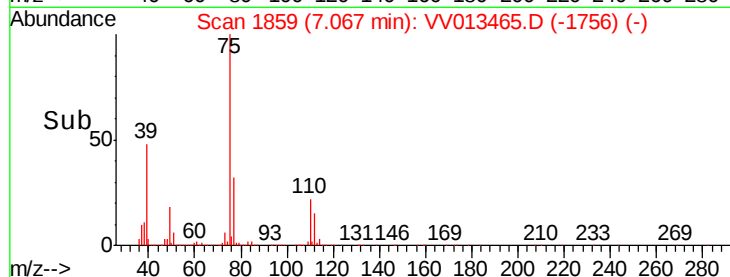
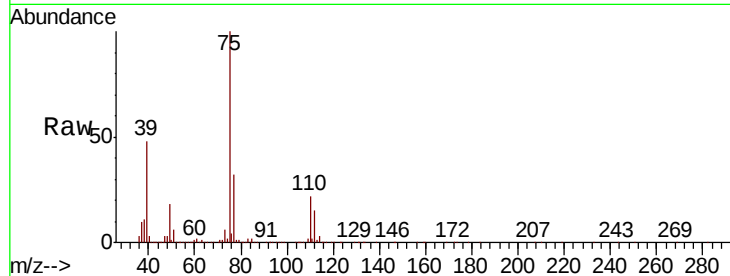


#42

cis-1,3-Dichloropropene
Concen: 26.370 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Instrument :
MSVOA_V
ClientSampleId :

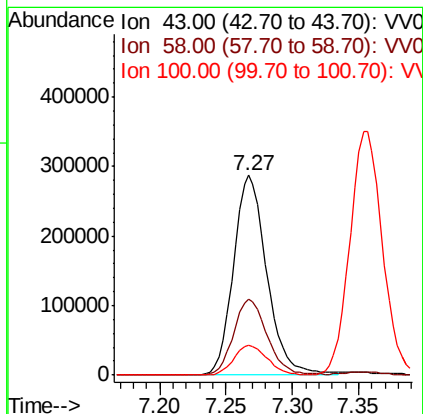
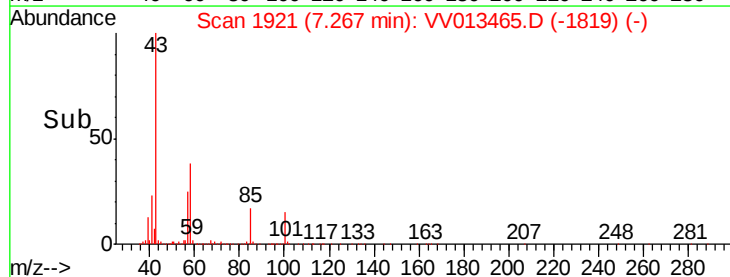
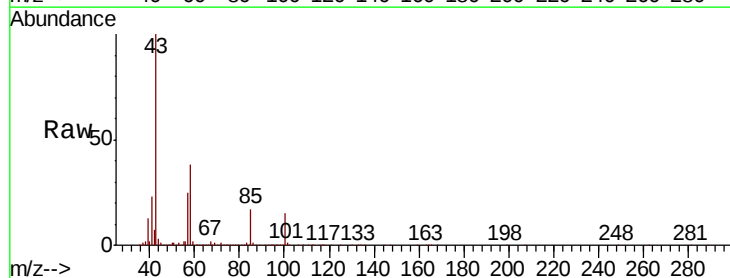
Tot Ion: 75 Resp: 416214
Ion Ratio Lower Upper
75 100
77 32.1 22.7 42.1

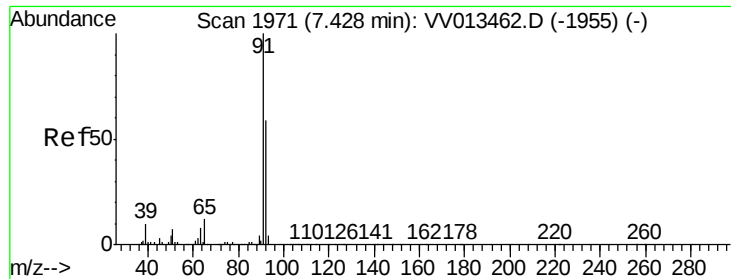


#43

4-Methyl-2-pentanone
Concen: 51.080 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion: 43 Resp: 501899
Ion Ratio Lower Upper
43 100
58 38.6 29.9 44.9
100 15.2 11.5 17.3





#44

Toluene

Concen: 26.963 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

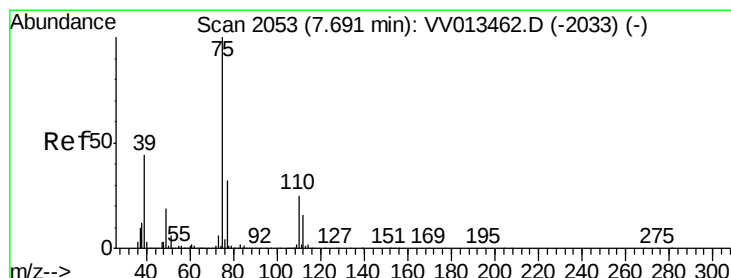
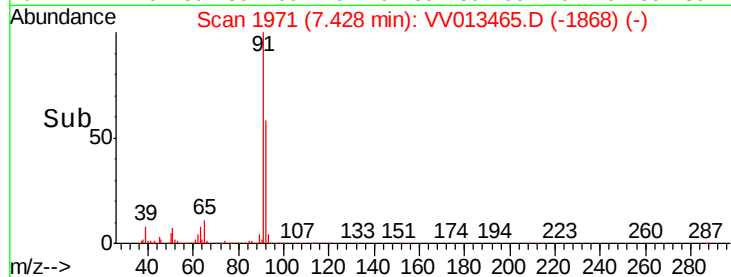
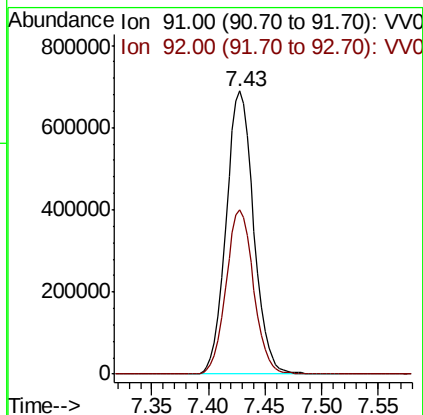
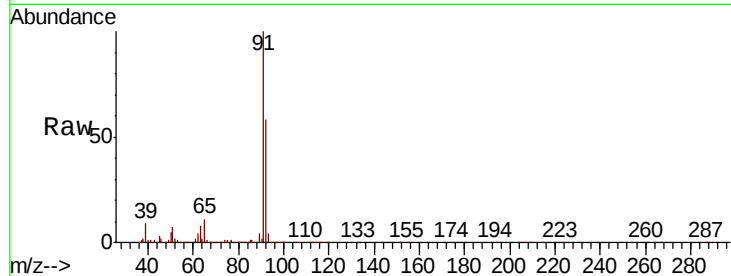
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1164421

Ion Ratio Lower Upper

91 100

92 58.2 41.4 76.8



#45

trans-1,3-Dichloropropene

Concen: 25.265 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV013465.D

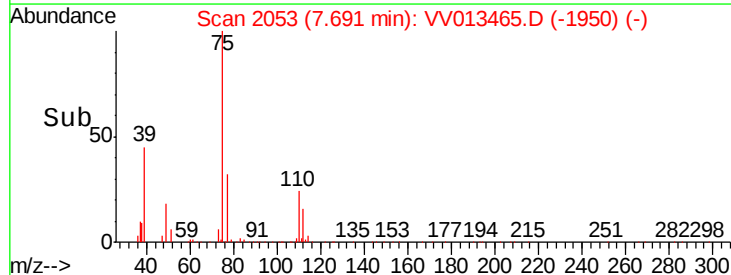
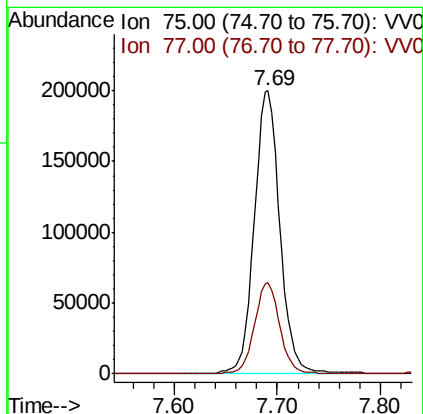
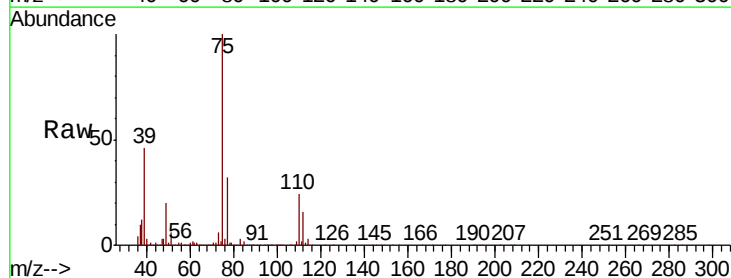
Acq: 01 Nov 2019 13:05

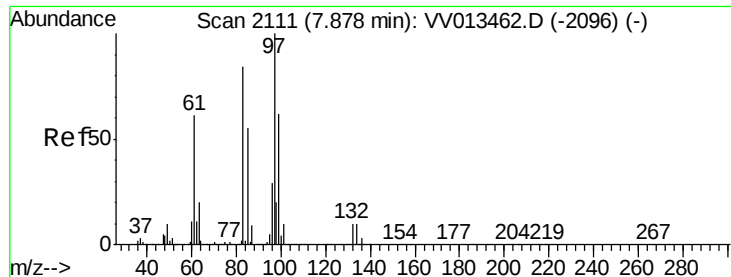
Tgt Ion: 75 Resp: 341820

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7

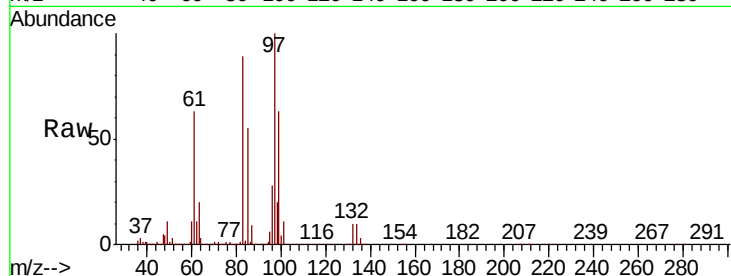




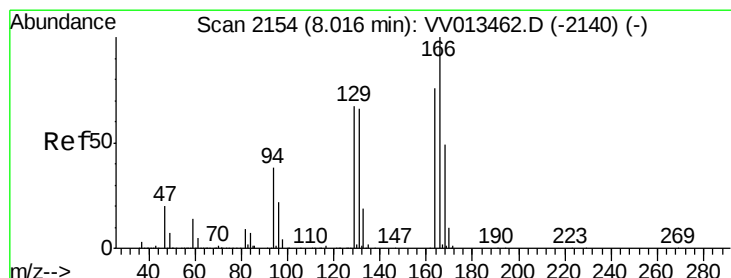
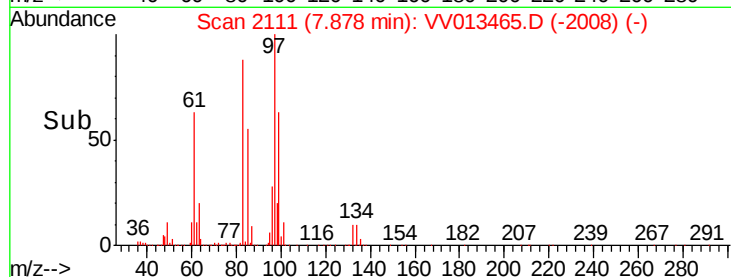
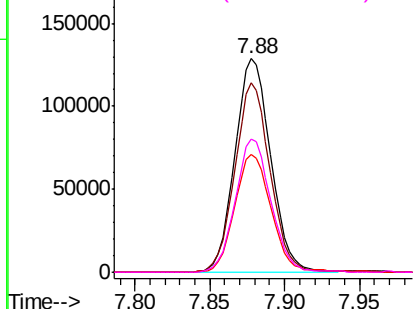
#46
1,1,2-Trichloroethane
Concen: 25.021 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	213412
Ion	Ratio	Lower	Upper
97	100		
83	88.5	58.9	109.3
85	55.0	38.6	71.6
99	62.6	43.6	81.0

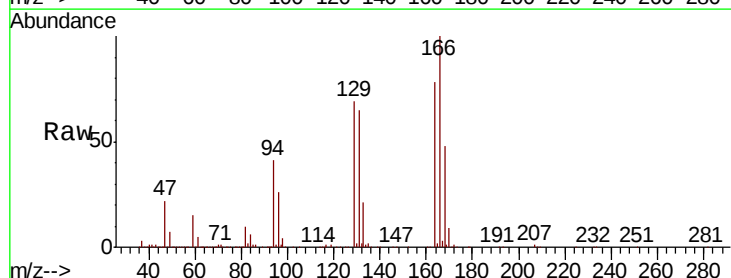


Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 83.00 (82.70 to 83.70): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 99.00 (98.70 to 99.70): VV0

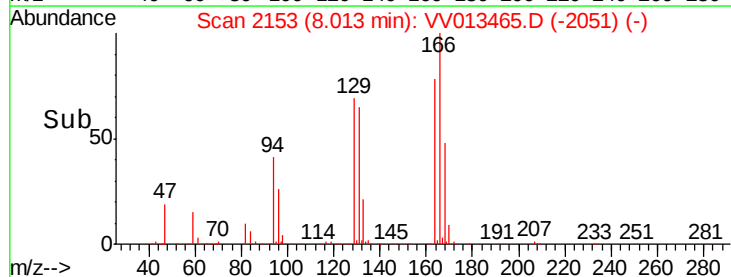
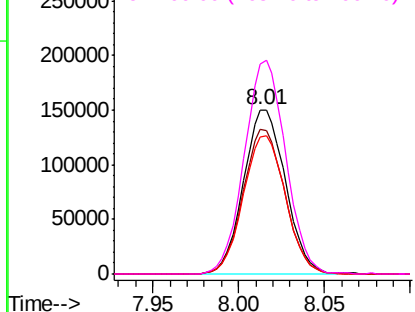


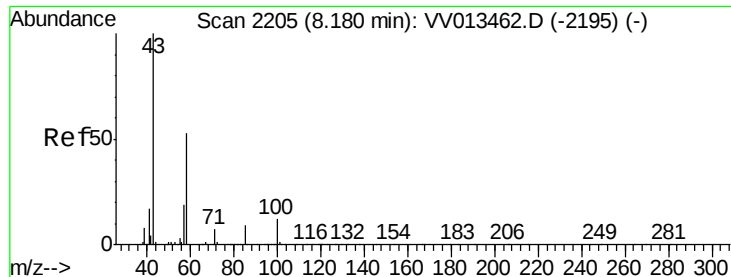
#47
Tetrachloroethene
Concen: 26.125 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion:	164	Resp:	252768
Ion	Ratio	Lower	Upper
164	100		
129	88.0	61.8	114.8
131	83.6	61.0	113.2
166	127.9	92.1	171.1



Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

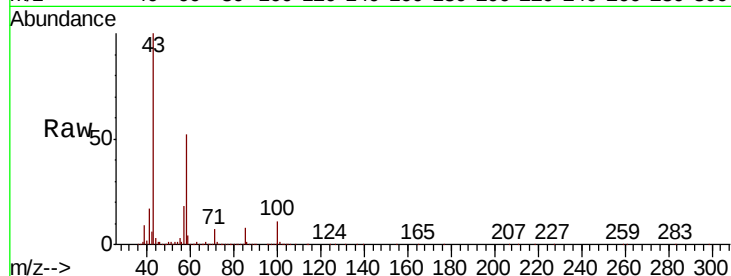




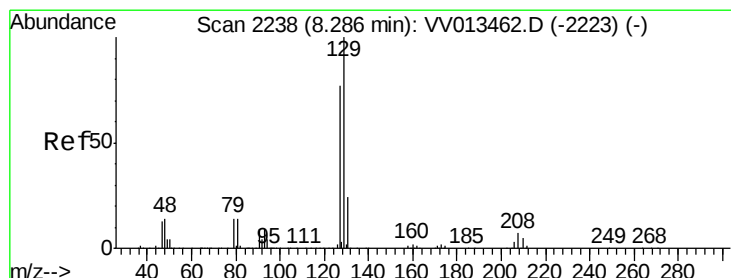
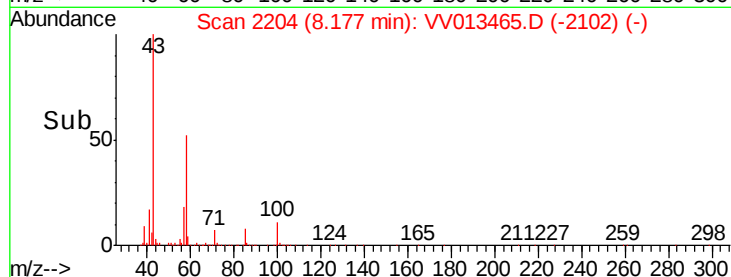
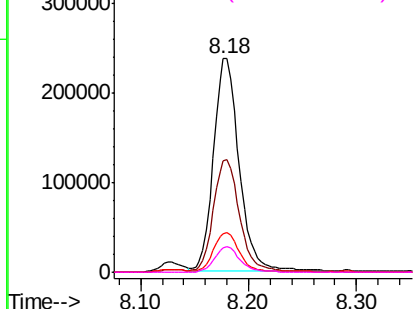
#49
2-Hexanone
Concen: 55.014 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 393521
Ion Ratio Lower Upper
43 100
58 52.3 43.8 65.8
57 18.2 15.0 22.4
100 12.0 9.4 14.2

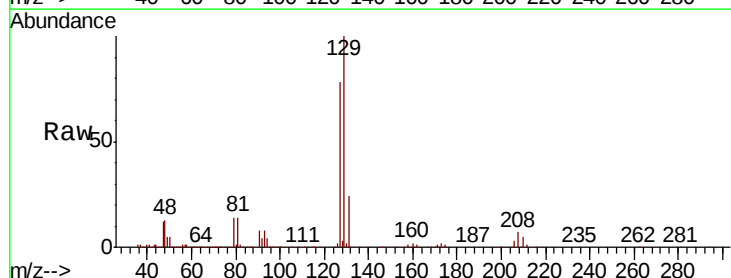


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

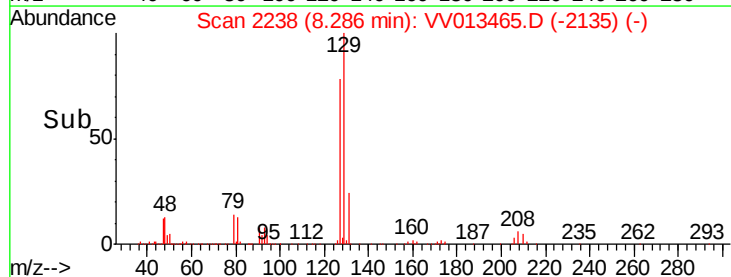
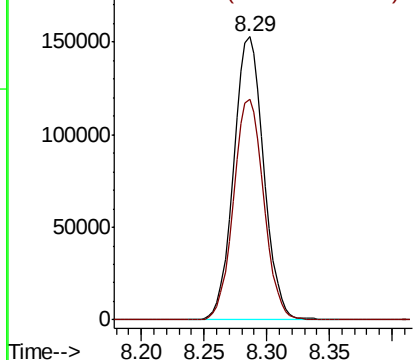


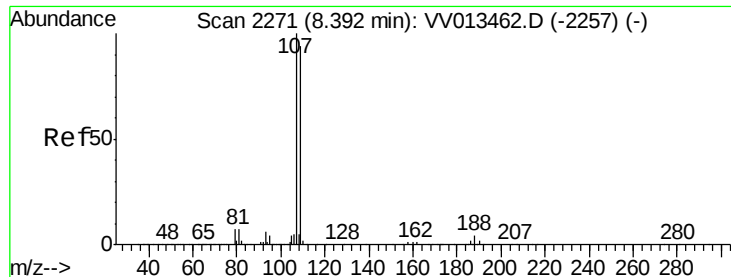
#50
Dibromochloromethane
Concen: 24.938 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV013465.D
Acq: 01 Nov 2019 13:05

Tgt Ion: 129 Resp: 254318
Ion Ratio Lower Upper
129 100
127 78.0 53.9 100.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 25.112 ug/L

RT: 8.39 min Scan# 2271

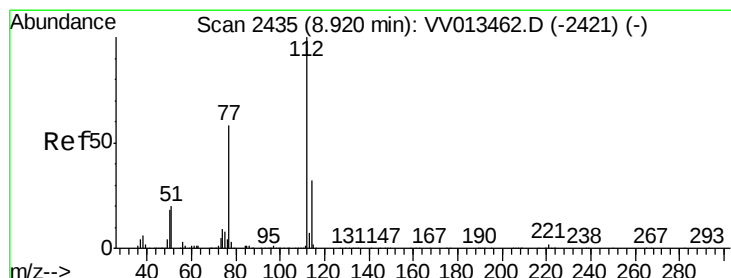
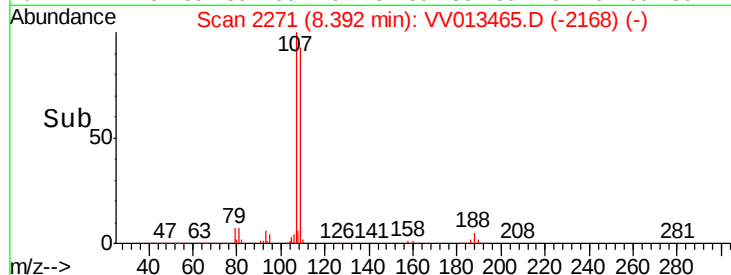
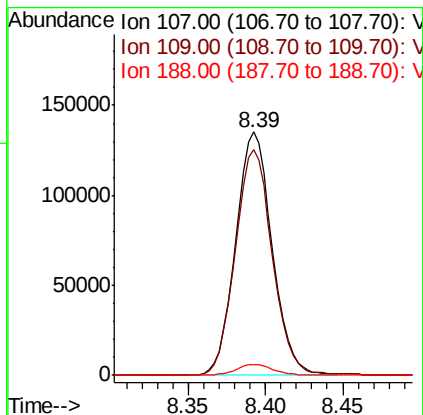
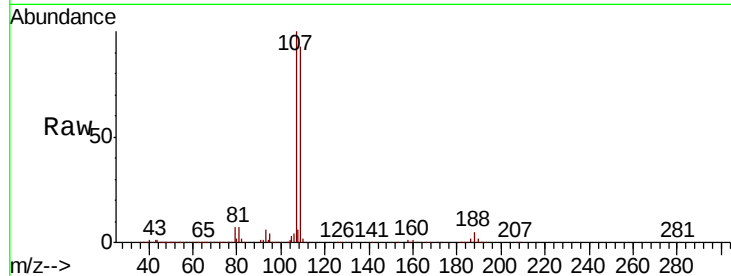
Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	107	Resp:	221400
Ion	Ratio	Lower	Upper
107	100		
109	92.9	65.6	121.8
188	4.6	3.5	5.3



#52

Chlorobenzene

Concen: 25.147 ug/L

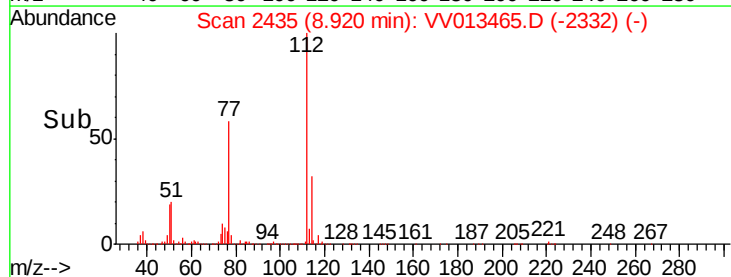
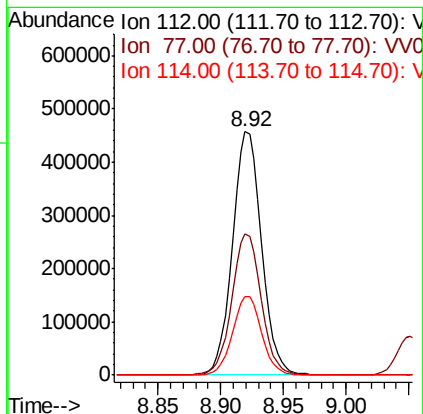
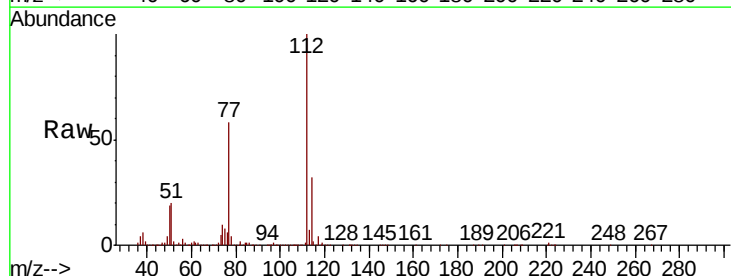
RT: 8.92 min Scan# 2435

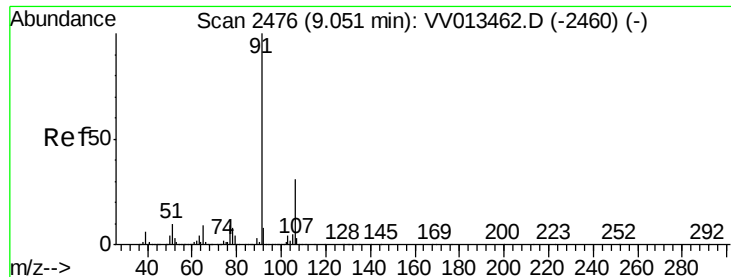
Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Tgt Ion:	112	Resp:	734902
Ion	Ratio	Lower	Upper
112	100		
77	58.2	46.6	70.0
114	32.3	22.5	41.9





#53

Ethylbenzene

Concen: 26.627 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :

MSVOA_V

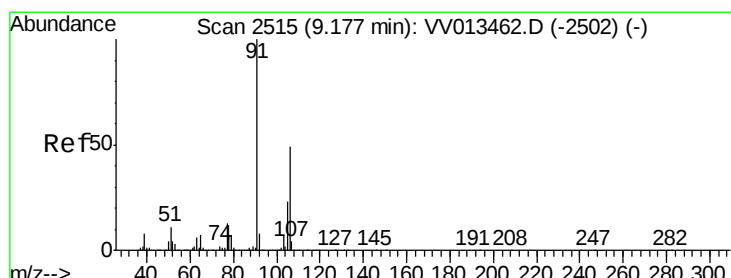
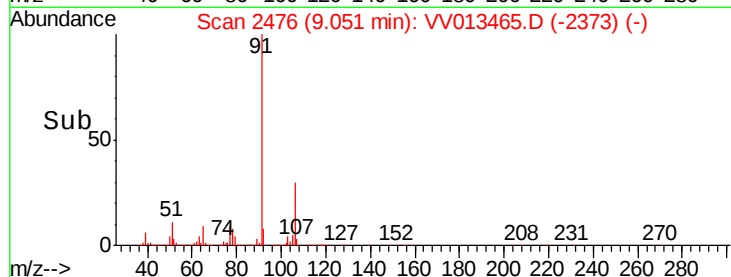
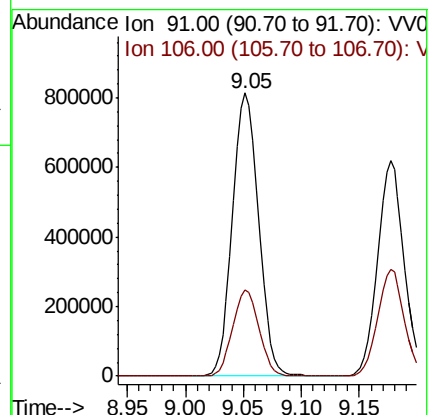
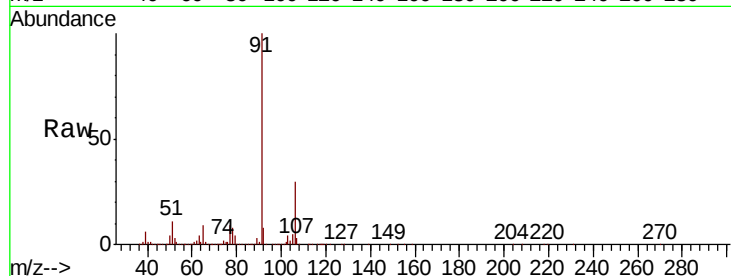
ClientSampleId :

Tot Ion: 91 Resp: 1267249

Ion Ratio Lower Upper

91 100

106 30.4 21.5 39.9



#54

m,p-Xylene

Concen: 27.509 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013465.D

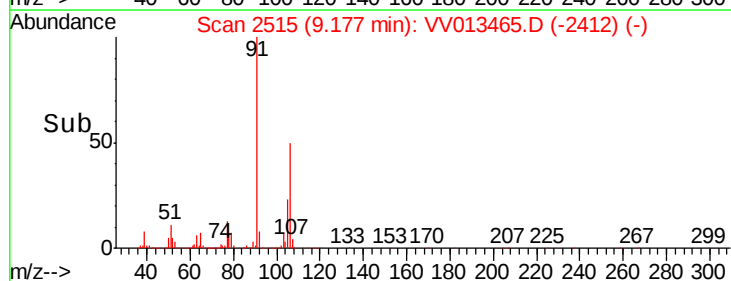
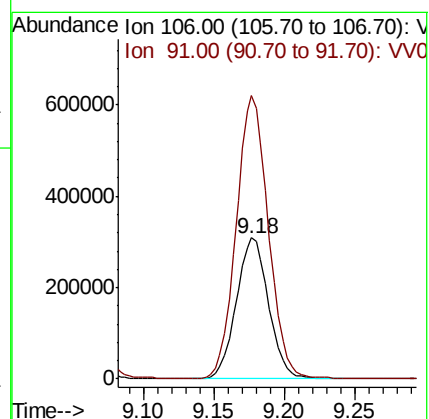
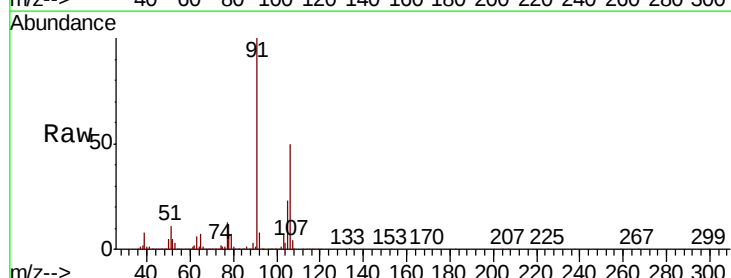
Acq: 01 Nov 2019 13:05

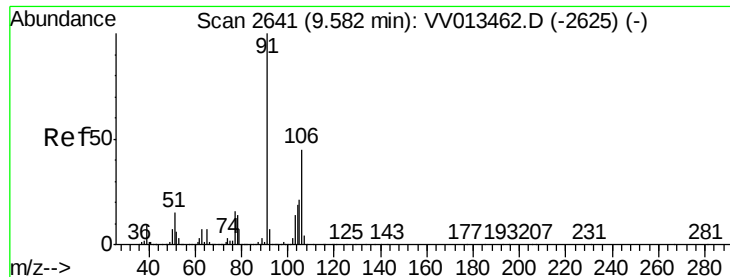
Tgt Ion: 106 Resp: 492423

Ion Ratio Lower Upper

106 100

91 200.9 141.7 263.1





#55

o-xylene

Concen: 27.958 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

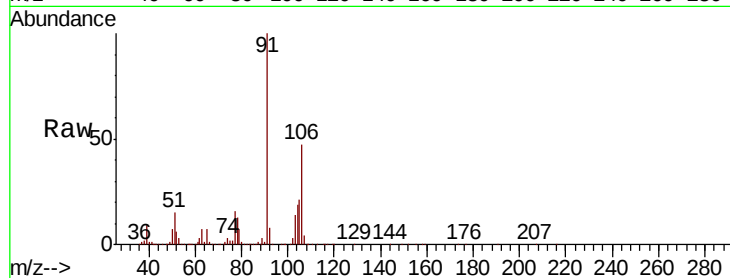
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 473304

Ion Ratio Lower Upper

106 100

91 211.2 154.2 286.4



Abundance Ion 106.00 (105.70 to 106.70): V

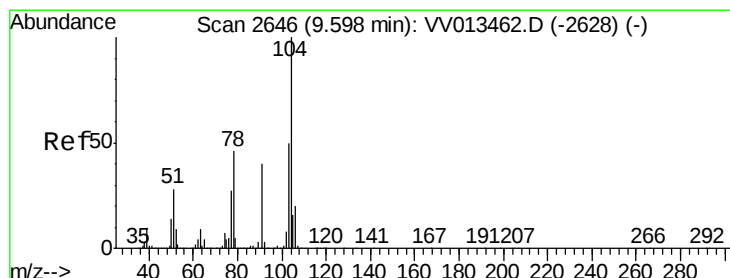
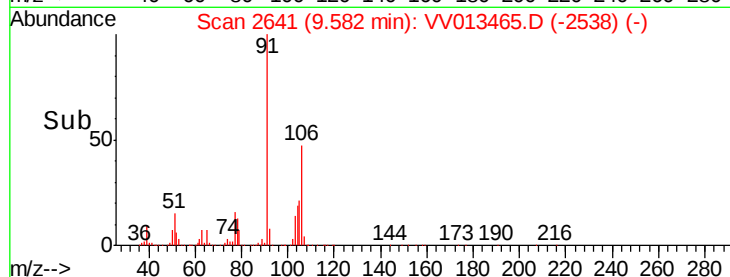
600000

400000

200000

0

Time--> 9.50 9.55 9.60 9.65



#56

Styrene

Concen: 28.268 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV013465.D

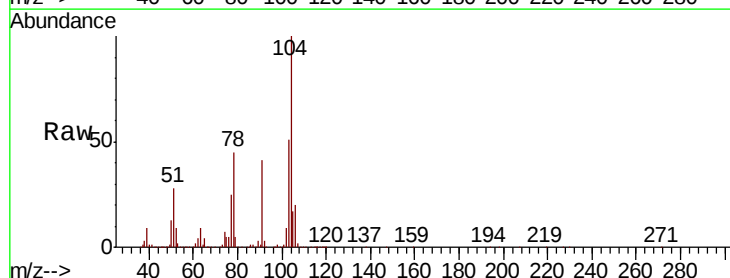
Acq: 01 Nov 2019 13:05

Tgt Ion:104 Resp: 829850

Ion Ratio Lower Upper

104 100

78 44.8 32.1 59.5



Abundance Ion 104.00 (103.70 to 104.70): V

600000

500000

400000

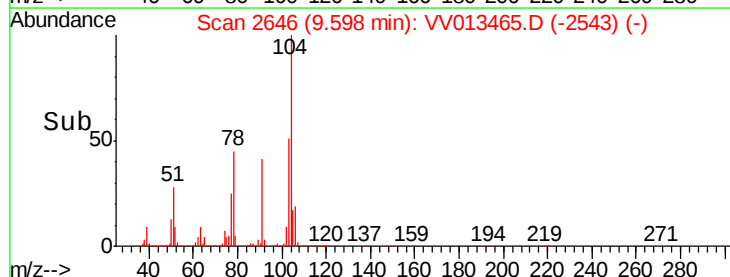
300000

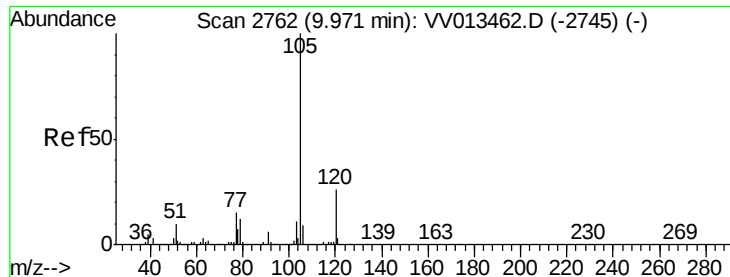
200000

100000

0

Time--> 9.50 9.60 9.70





#57

Isopropylbenzene

Concen: 27.454 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :

MSVOA_V

ClientSampled :

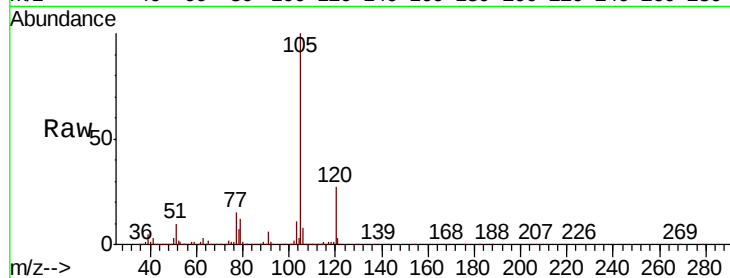
Tot Ion:105 Resp: 1253871

Ion Ratio Lower Upper

105 100

120 26.8 21.1 31.7

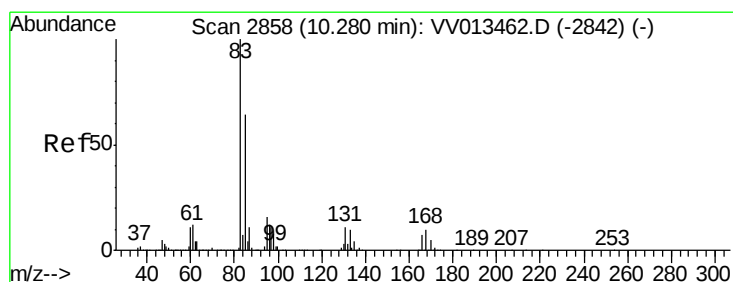
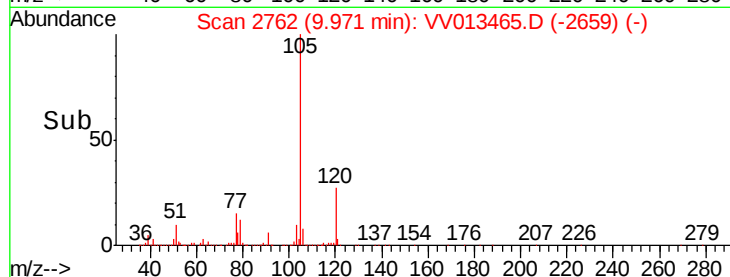
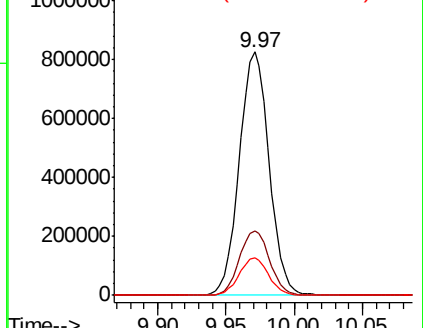
77 15.1 12.3 18.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 26.000 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

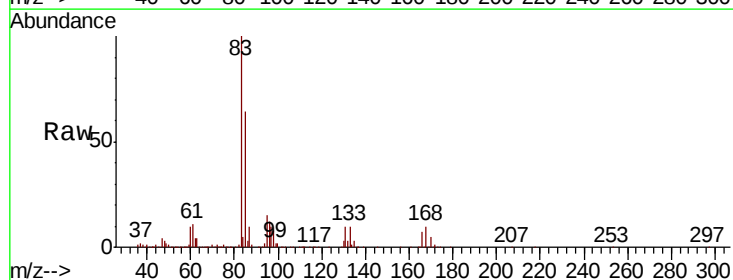
Tgt Ion: 83 Resp: 284487

Ion Ratio Lower Upper

83 100

85 63.9 45.1 83.7

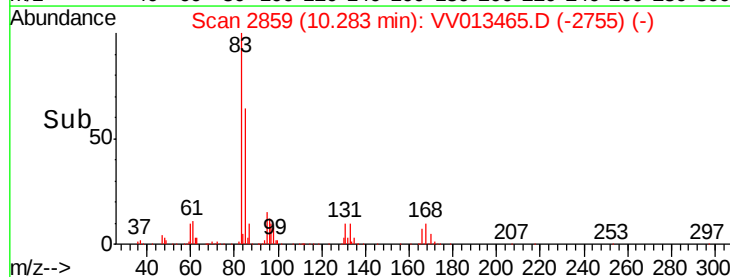
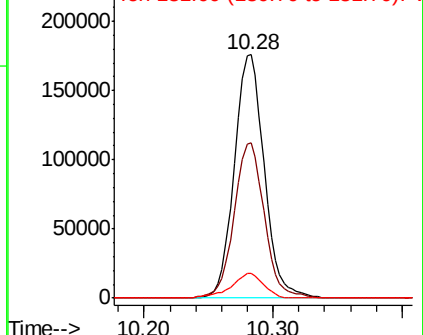
131 10.2 8.5 12.7

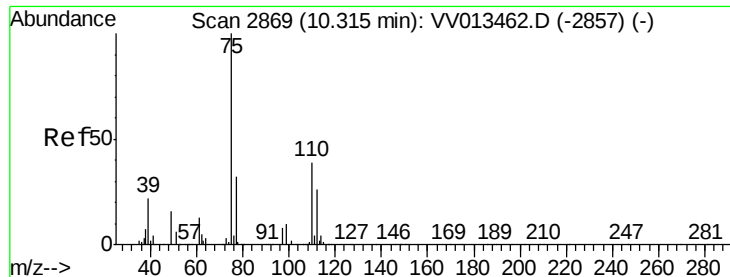


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.773 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :

MSVOA_V

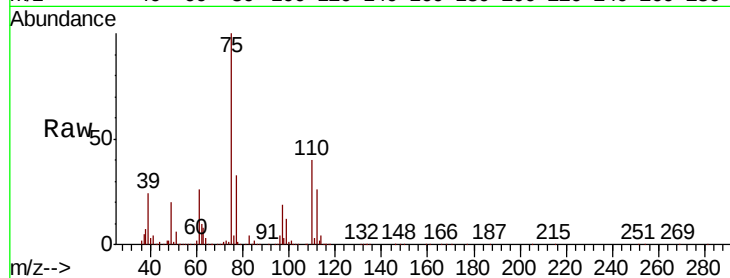
ClientSampleId :

Tot Ion: 75 Resp: 236333

Ion Ratio Lower Upper

75 100

77 31.9 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

10.31

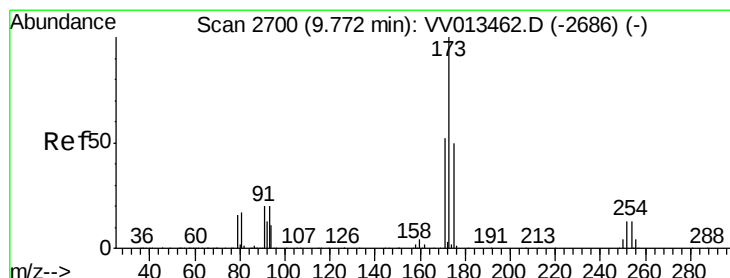
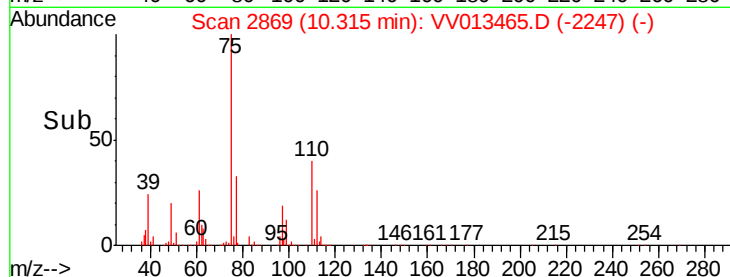
150000

100000

50000

0

Time-->



#62

Bromoform

Concen: 24.635 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

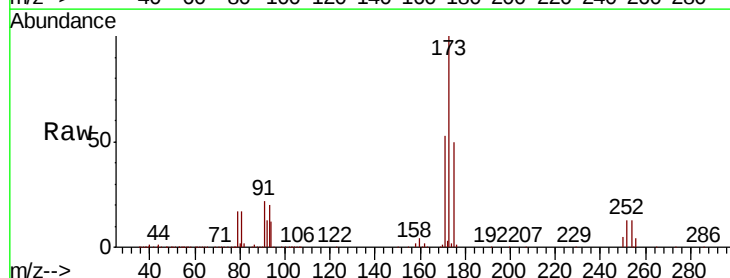
Tgt Ion: 173 Resp: 177280

Ion Ratio Lower Upper

173 100

175 49.7 39.4 59.0

254 12.7 10.1 15.1



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

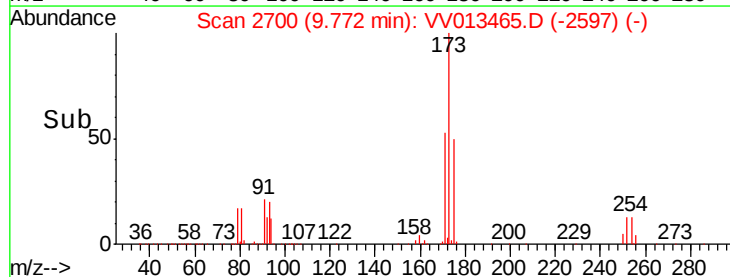
150000

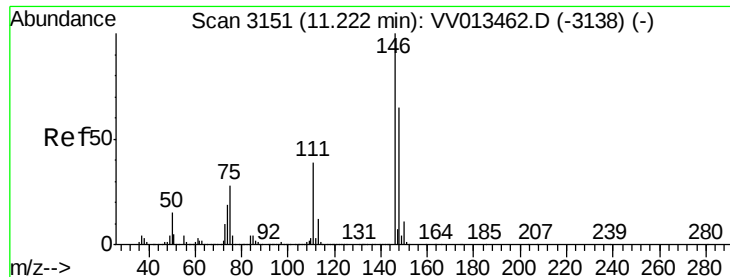
100000

50000

0

Time-->

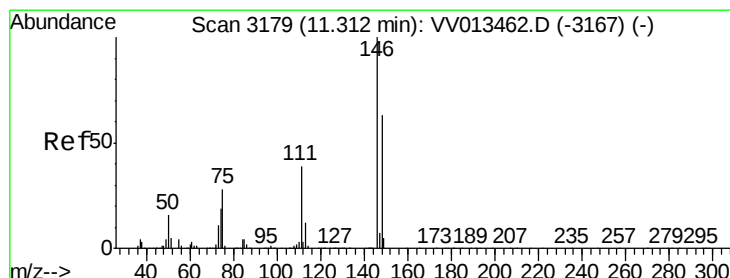
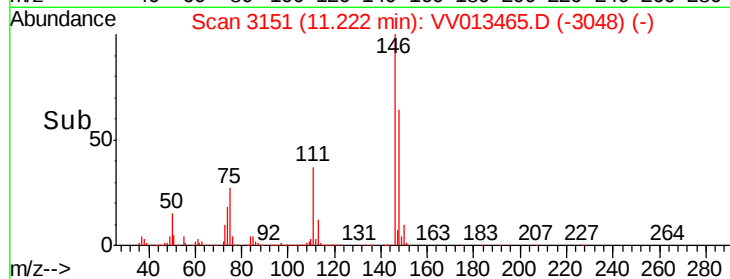
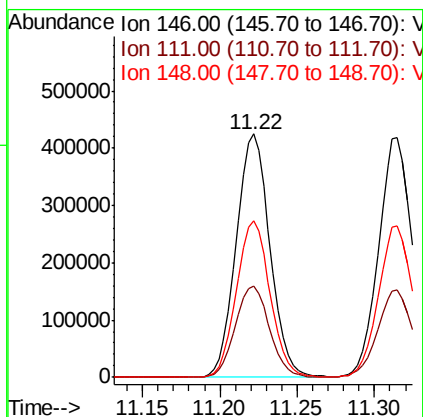
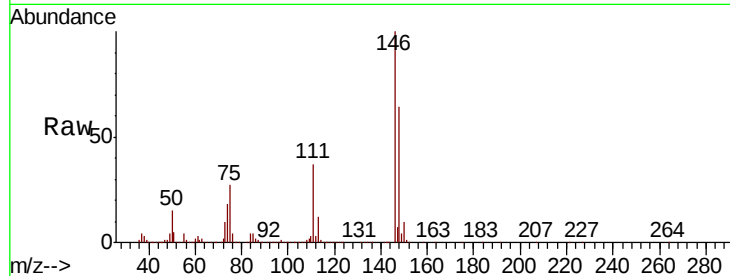




#63
 1,3-Dichlorobenzene
 Concen: 25.642 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

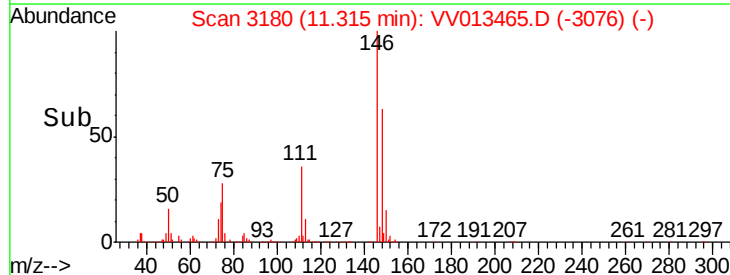
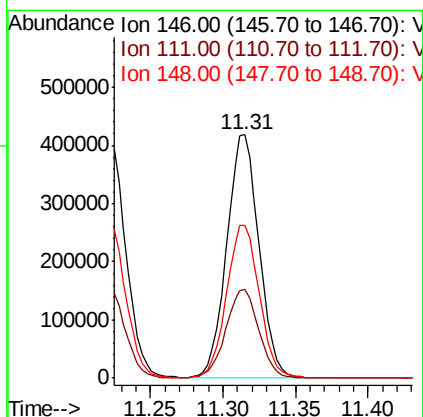
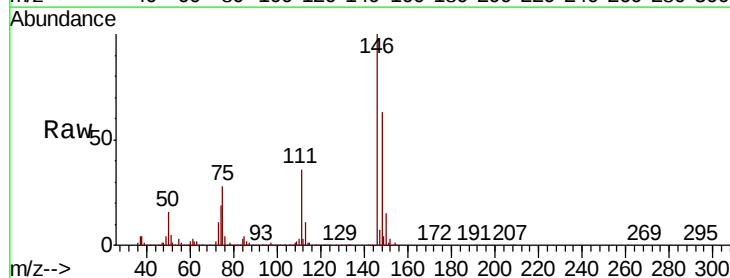
Instrument :
 MSVOA_V
 ClientSampleId :

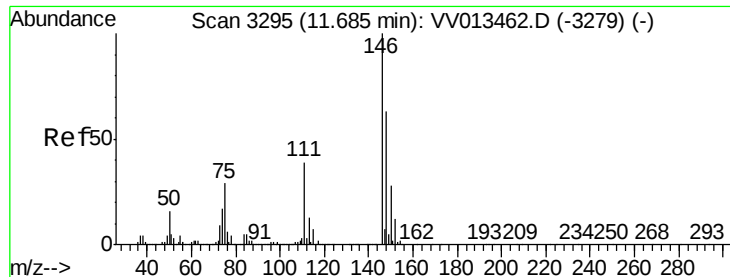
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	27.1	50.3
148	64.5	45.4	84.2



#64
 1,4-Dichlorobenzene
 Concen: 24.949 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	27.2	50.6
148	62.9	44.4	82.5

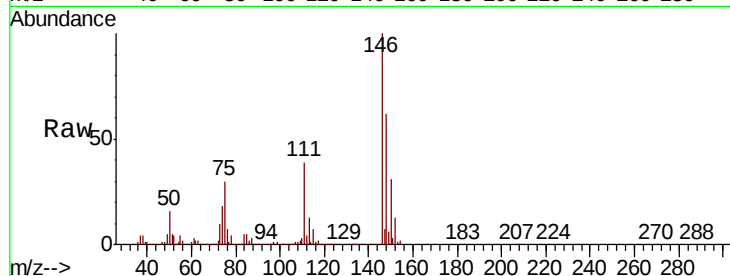




#65
 1,2-Dichlorobenzene
 Concen: 24.887 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	31.4	47.2
148	62.4	50.5	75.7

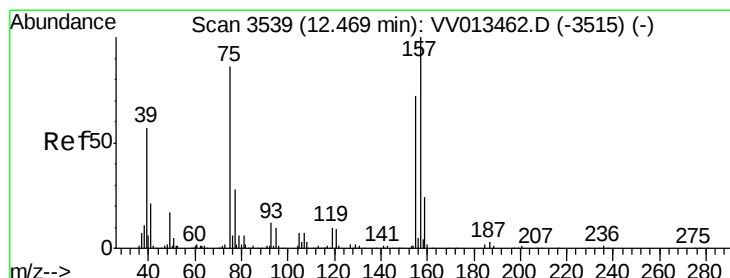
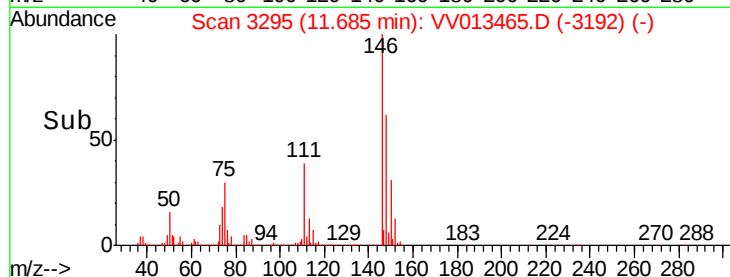
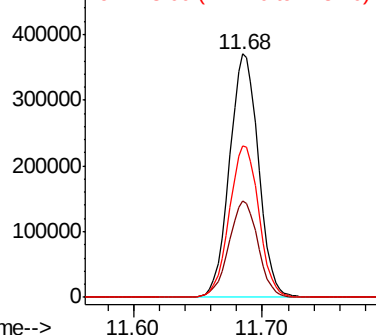


Abundance

Ion 146.00 (145.70 to 146.70): V

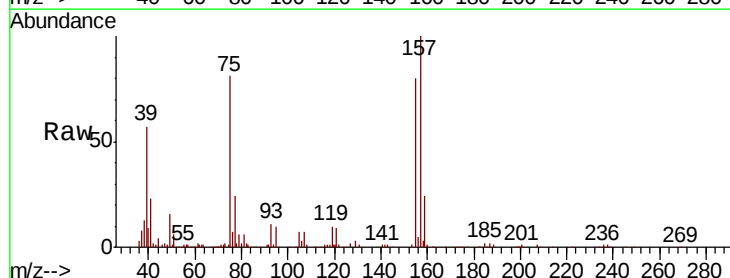
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.020 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
157	123.4	93.2	139.8
155	99.1	66.9	100.3

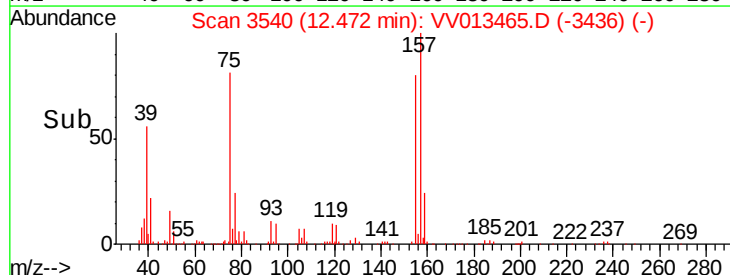
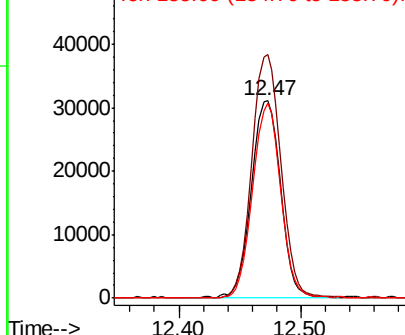


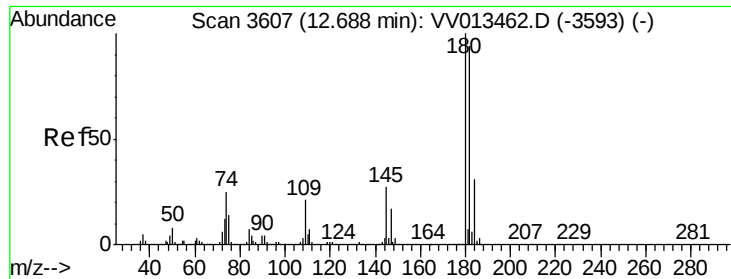
Abundance

Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

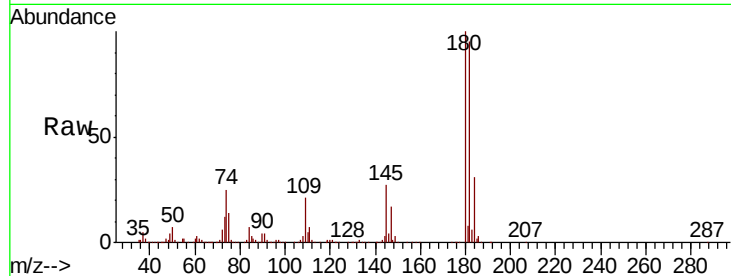




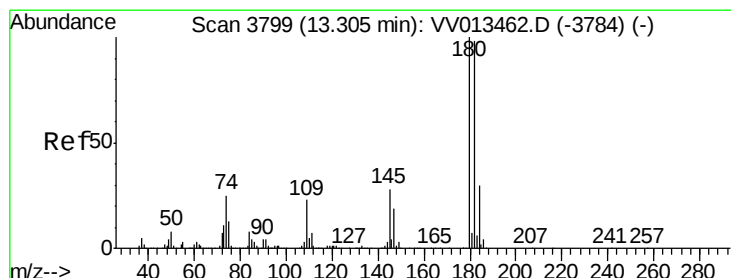
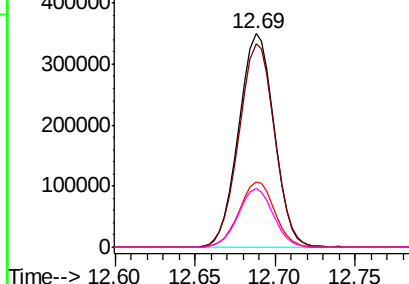
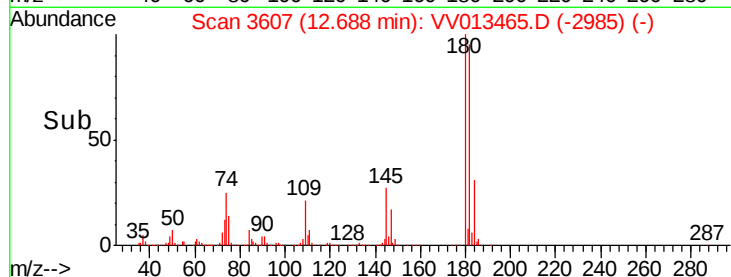
#67
 1,3,5-Trichlorobenzene
 Concen: 26.557 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:180	Resp:	526487
Ion Ratio	Lower	Upper
180	100	
182	96.2	74.8 112.2
184	30.7	24.3 36.5
145	27.4	21.1 31.7

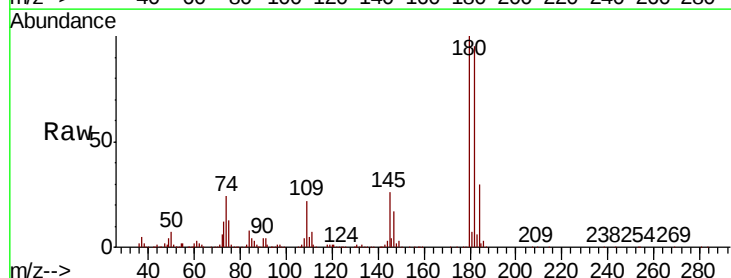


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

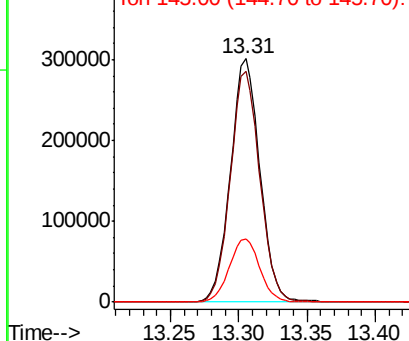
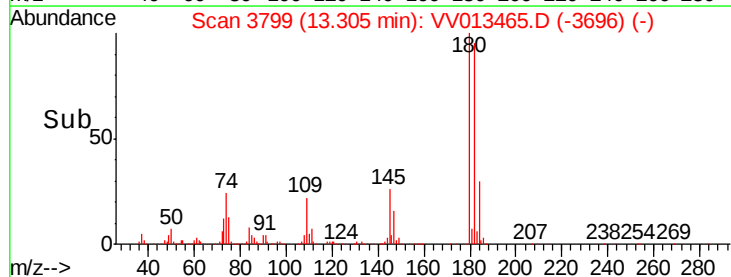


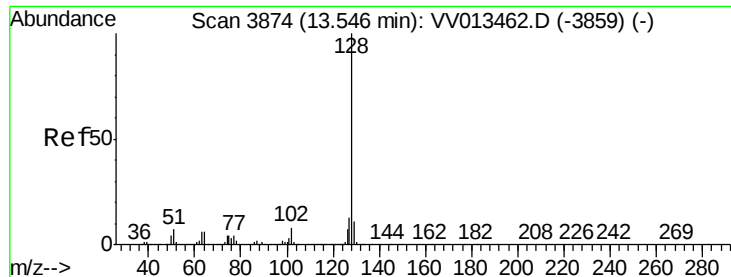
#68
 1,2,4-trichlorobenzene
 Concen: 26.653 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013465.D
 Acq: 01 Nov 2019 13:05

Tgt Ion:180	Resp:	450504
Ion Ratio	Lower	Upper
180	100	
182	95.5	77.4 116.0
145	26.8	22.3 33.5



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 27.772 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

Instrument :

MSVOA_V

ClientSampleId :

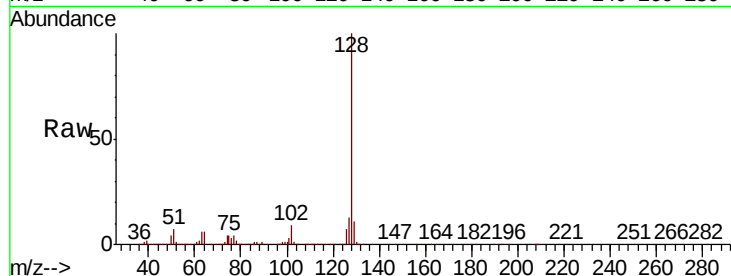
Tot Ion:128 Resp: 907775

Ion Ratio Lower Upper

128 100

129 10.7 8.6 13.0

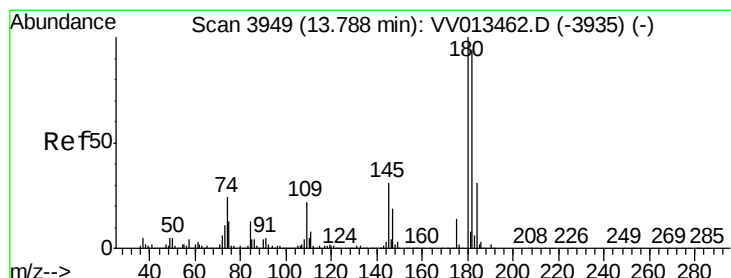
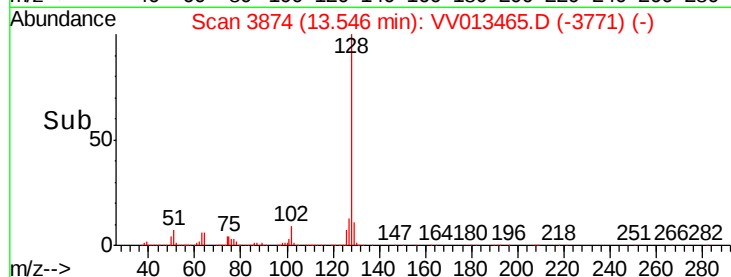
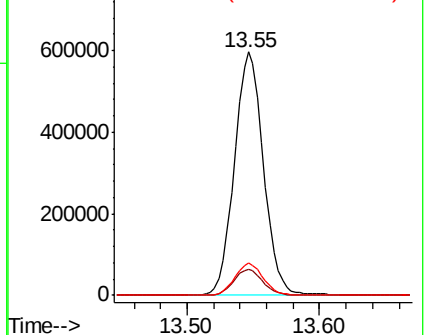
127 13.0 10.5 15.7



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: 26.975 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013465.D

Acq: 01 Nov 2019 13:05

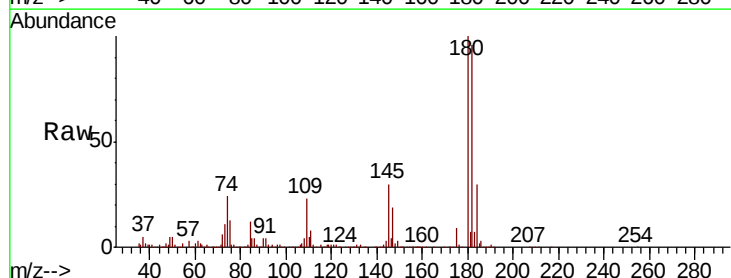
Tgt Ion:180 Resp: 426593

Ion Ratio Lower Upper

180 100

182 96.0 75.2 112.8

145 29.6 23.8 35.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

