

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101119\
 Data File : VV013115.D
 Acq On : 11 Oct 2019 21:31
 Operator : SY/MD
 Sample : MDL03 2.5PPB
 Misc : 5.00ML/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 12 03:29:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM101119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 12 01:26:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	682924	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	645392	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	269519	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	225574	52.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.52%
7) Chloroethane-d5	1.58	69	193708	54.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	109.48%
11) 1,1-Dichloroethene-d2	2.13	63	321049	39.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.86%
21) 2-Butanone-d5	3.92	46	353924	109.04	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.04%
24) Chloroform-d	4.40	84	431284	51.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.80%
26) 1,2-Dichloroethane-d4	5.08	65	276010	53.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.76%
32) Benzene-d6	5.10	84	927041	53.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.68%
36) 1,2-Dichloropropane-d6	6.12	67	292469	54.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	108.42%
41) Toluene-d8	7.36	98	792805	51.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.90%
43) trans-1,3-Dichloropropene-	7.66	79	118987	48.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.38%
47) 2-Hexanone-d5	8.13	63	227293	105.89	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.89%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	356441	51.20	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	300827	56.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	113.94%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	11312	2.135 ug/L	99
3) Chloromethane	1.25	50	14174	2.351 ug/L	100
5) Vinyl chloride	1.32	62	12866	2.222 ug/L #	62
6) Bromomethane	1.53	94	8568	2.892 ug/L	94
8) Chloroethane	1.60	64	7741	2.247 ug/L	94
9) Trichlorofluoromethane	1.77	101	15568	2.095 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	12560	2.870 ug/L #	83
12) 1,1-Dichloroethene	2.14	96	11900	2.810 ug/L #	1
13) Acetone	2.19	43	10771	3.614 ug/L	94
14) Carbon disulfide	2.32	76	27484	2.238 ug/L	97
15) Methyl Acetate	2.46	43	10952	2.074 ug/L	97
16) Methylene chloride	2.54	84	11420	2.266 ug/L	96
17) trans-1,2-Dichloroethene	2.79	96	9433	2.053 ug/L	90
18) Methyl tert-butyl Ether	2.80	73	27652	1.994 ug/L	98
19) 1,1-Dichloroethane	3.23	63	18249	2.106 ug/L	92
20) cis-1,2-Dichloroethene	3.96	96	11133	2.141 ug/L	95
22) 2-Butanone	4.03	43	11794	3.109 ug/L #	72

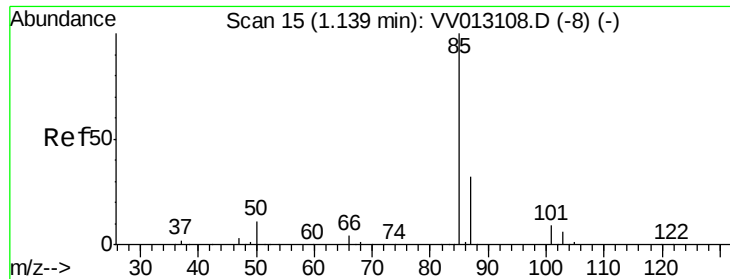
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101119\
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 Quant Title : VOC Analysis
 QLast Update : Sat Oct 12 01:26:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	5842	2.212	ug/L	79
25) Chloroform	4.42	83	24142	2.765	ug/L	97
27) 1,2-Dichloroethane	5.18	62	14487	2.164	ug/L #	94
29) Cyclohexane	4.73	56	15093	1.953	ug/L #	94
30) 1,1,1-Trichloroethane	4.66	97	14616	2.041	ug/L	99
31) Carbon tetrachloride	4.87	117	12984	2.040	ug/L	97
33) Benzene	5.15	78	40550	2.063	ug/L	100
34) Trichloroethene	5.96	95	11659	2.228	ug/L	97
35) Methylcyclohexane	6.18	83	14632	1.848	ug/L	93
37) 1,2-Dichloropropane	6.22	63	10775	2.117	ug/L	98
38) Bromodichloromethane	6.55	83	13049	2.015	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	14820	1.969	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	24356	3.655	ug/L	98
42) Toluene	7.43	91	43438	2.146	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	12524	1.919	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	10287	2.129	ug/L	94
46) Tetrachloroethene	8.02	164	8543	2.062	ug/L	99
48) 2-Hexanone	8.18	43	26515	5.146	ug/L	96
49) Dibromochloromethane	8.29	129	11058	2.100	ug/L	93
50) 1,2-Dibromoethane	8.40	107	10261	2.032	ug/L #	94
51) Chlorobenzene	8.92	112	28227	2.127	ug/L	96
52) Ethylbenzene	9.05	91	41406	1.916	ug/L	100
53) m,p-Xylene	9.18	106	14706	1.808	ug/L	96
54) o-xylene	9.59	106	14369	1.764	ug/L	90
55) Styrene	9.60	104	21520	1.608	ug/L	98
56) Isopropylbenzene	9.97	105	34488	1.648	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	16153	2.299	ug/L #	98
59) 1,2,3-Trichloropropane	10.31	75	13194	2.129	ug/L	99
61) Bromoform	9.77	173	7344	2.165	ug/L #	95
62) 1,3-Dichlorobenzene	11.22	146	18504	2.123	ug/L	94
63) 1,4-Dichlorobenzene	11.31	146	20535	2.346	ug/L	94
65) 1,2-Dichlorobenzene	11.68	146	20532	2.314	ug/L	92
66) 1,2-Dibromo-3-chloropropan	12.48	75	2938	2.277	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.69	180	12915	2.078	ug/L	96
68) 1,2,4-trichlorobenzene	13.31	180	10736	2.014	ug/L	96
69) Naphthalene	13.55	128	24436	1.664	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	11442	2.006	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 2.135 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

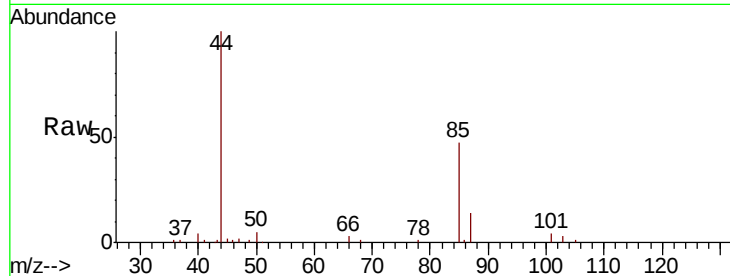
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 11312

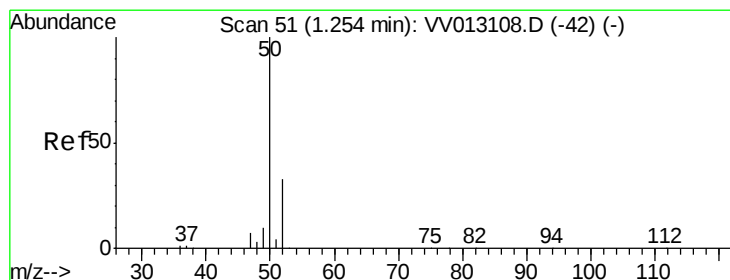
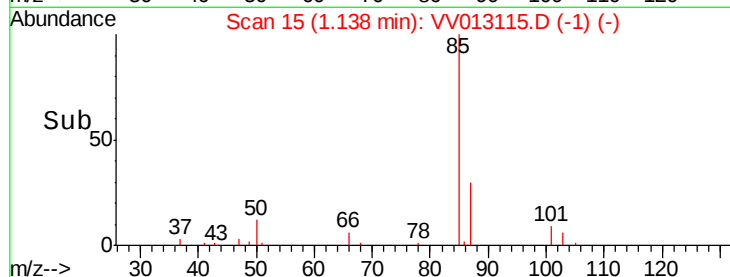
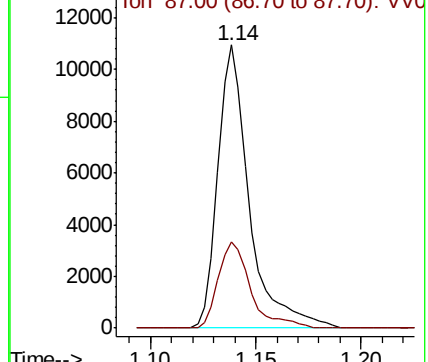
Ion Ratio Lower Upper

85 100

87 31.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0



#3

Chloromethane

Concen: 2.351 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013115.D

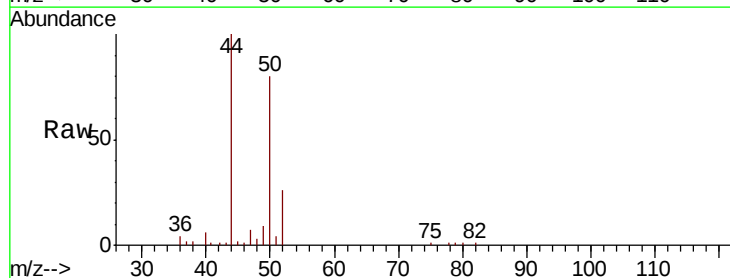
Acq: 11 Oct 2019 21:31

Tgt Ion: 50 Resp: 14174

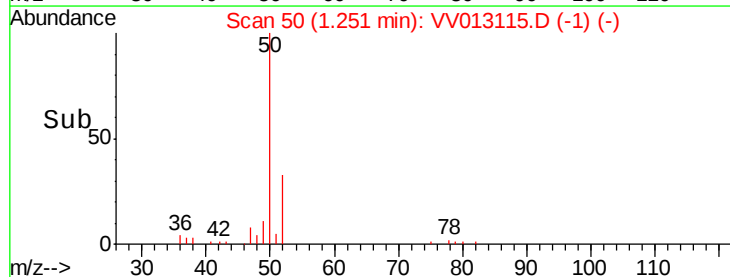
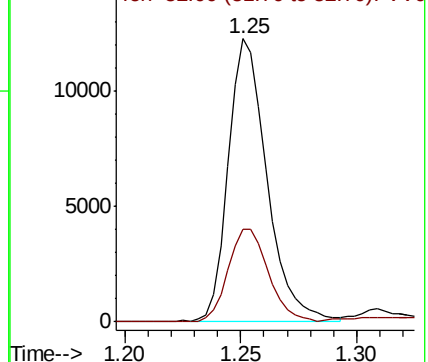
Ion Ratio Lower Upper

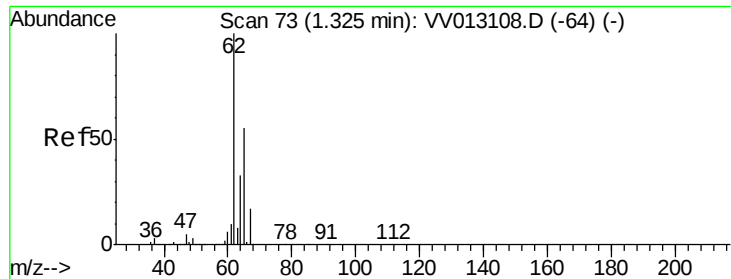
50 100

52 32.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0





#5

Vinyl chloride

Concen: 2.222 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :

MSVOA_V

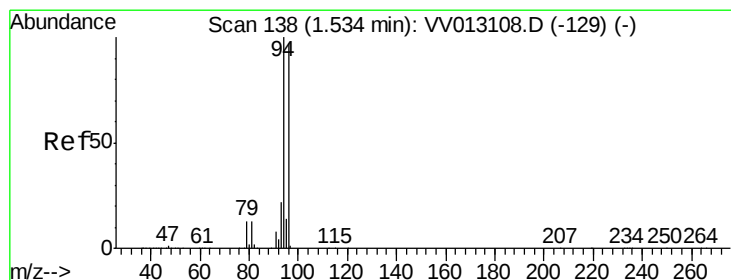
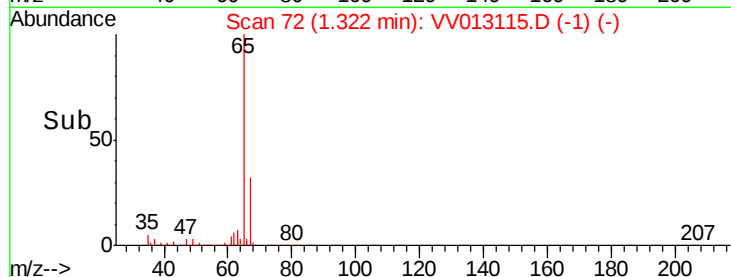
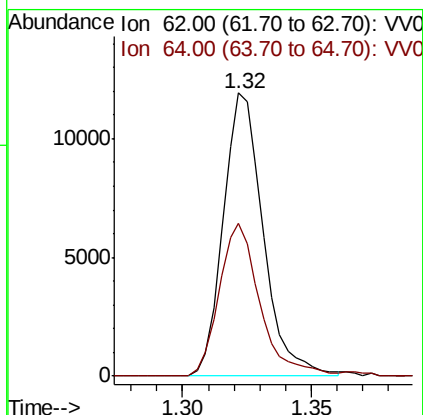
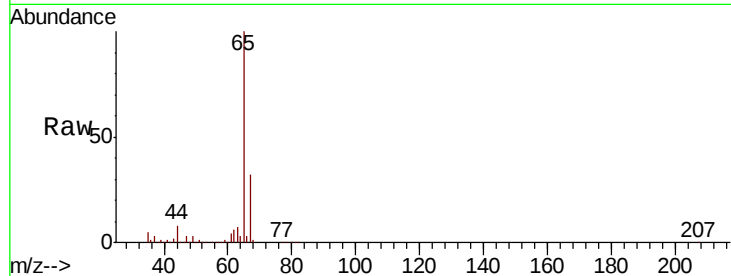
ClientSampled :

Tot Ion: 62 Resp: 12866

Ion Ratio Lower Upper

62 100

64 54.2 22.9 42.5#



#6

Bromomethane

Concen: 2.892 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013115.D

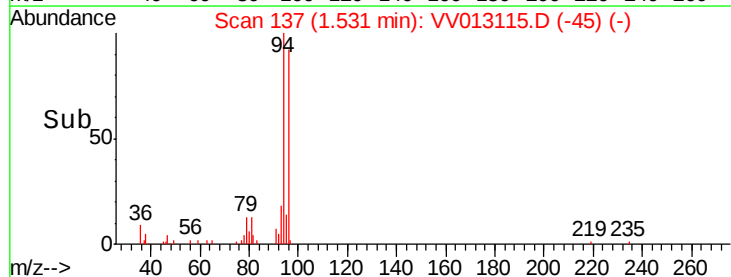
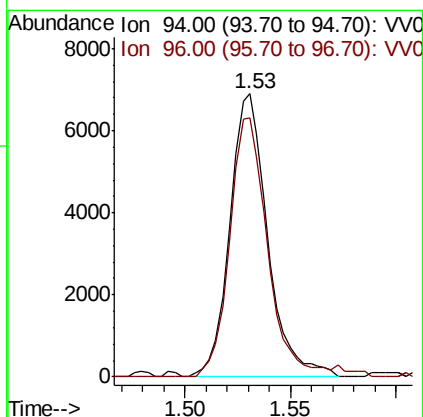
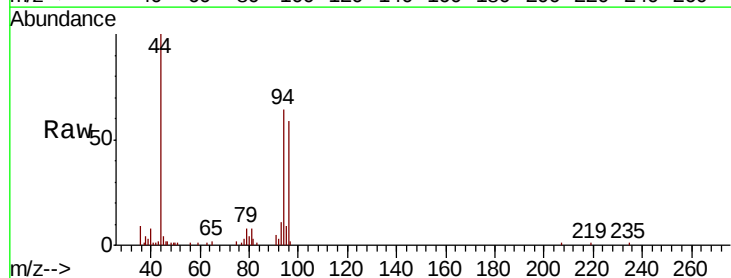
Acq: 11 Oct 2019 21:31

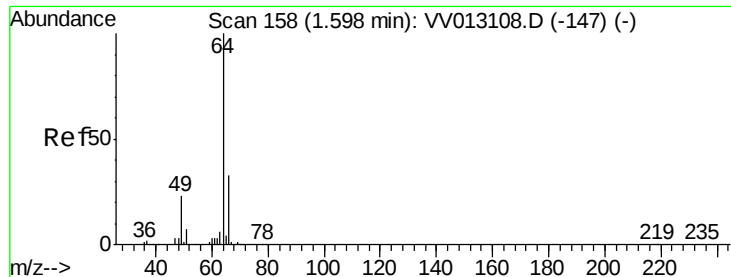
Tgt Ion: 94 Resp: 8568

Ion Ratio Lower Upper

94 100

96 91.6 68.0 126.2





#8

Chloroethane

Concen: 2.247 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

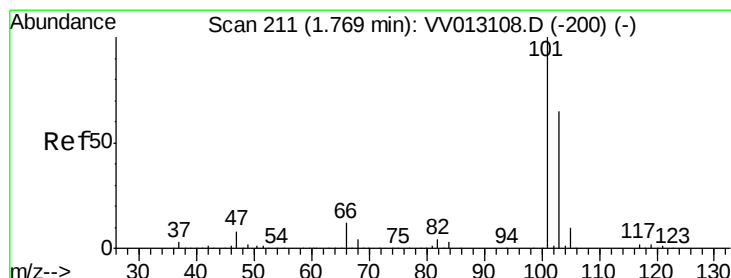
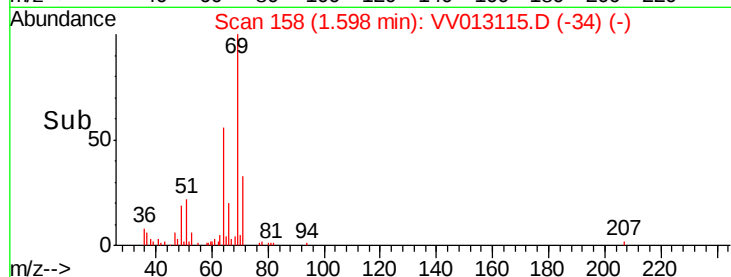
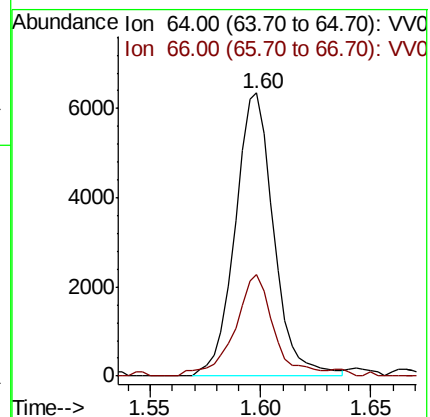
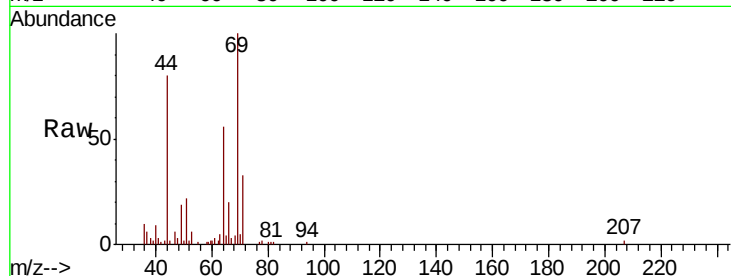
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 7741

Ion Ratio Lower Upper

64 100

66 36.1 23.0 42.8



#9

Trichlorofluoromethane

Concen: 2.095 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013115.D

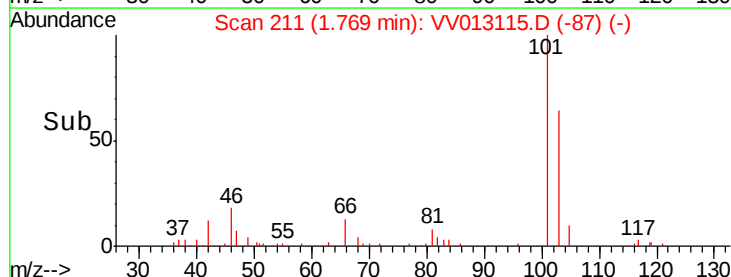
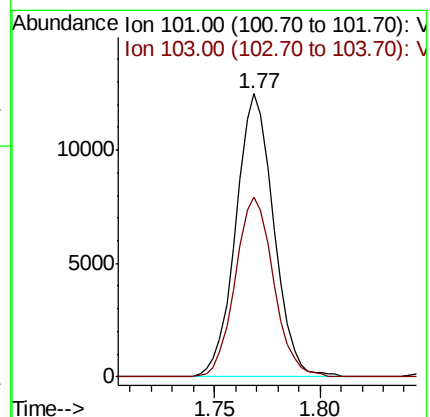
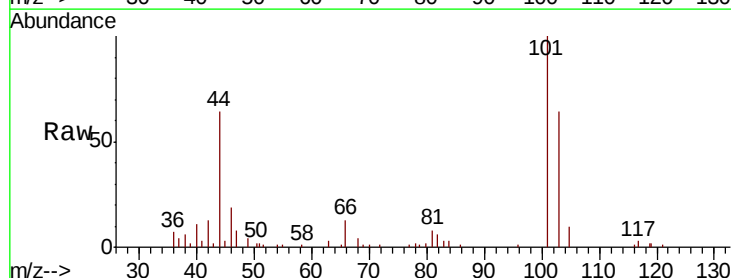
Acq: 11 Oct 2019 21:31

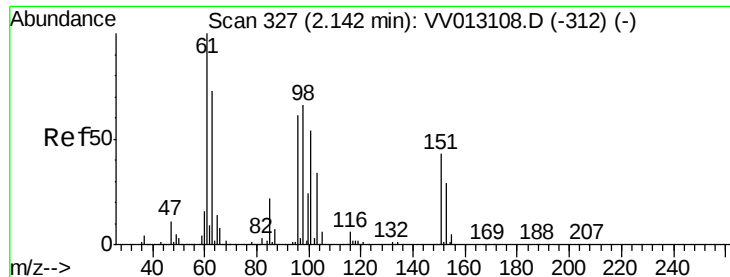
Tgt Ion: 101 Resp: 15568

Ion Ratio Lower Upper

101 100

103 64.2 51.3 76.9





#10

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

Concen: 2.870 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :

MSVOA_V

ClientSampleId :

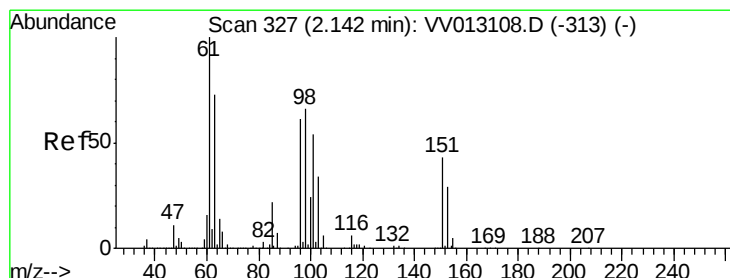
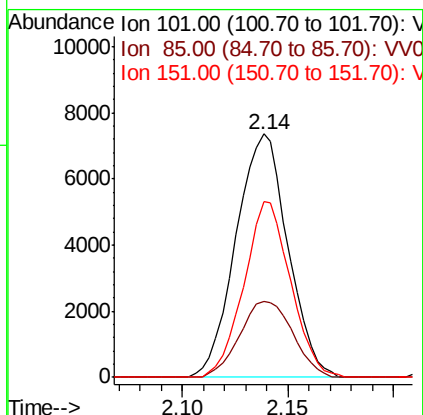
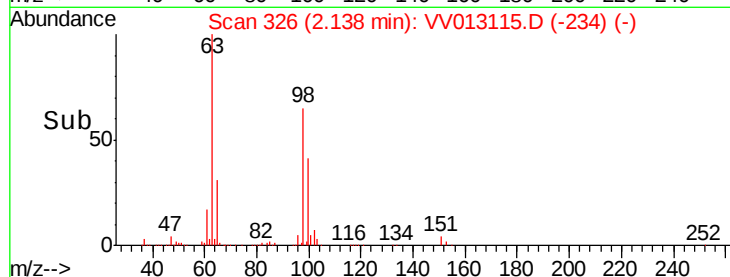
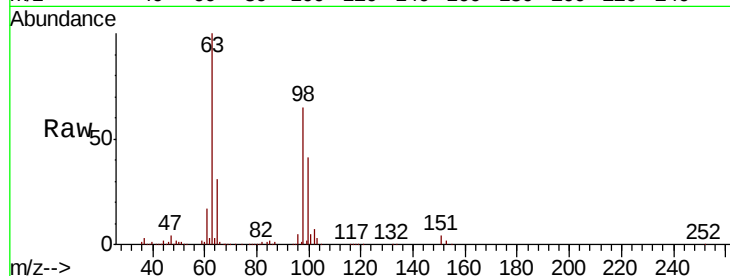
Tot Ion:101 Resp: 12560

Ion Ratio Lower Upper

101 100

85 32.0 32.9 49.3#

151 65.0 64.9 97.3



#12

1,1-Dichloroethene

Concen: 2.810 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

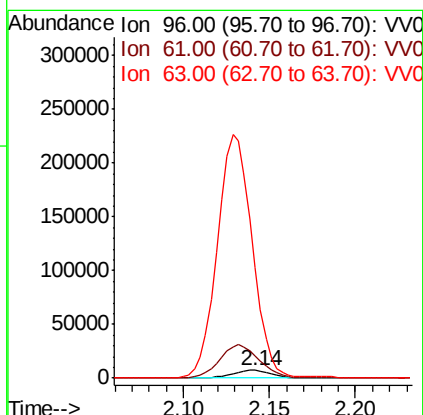
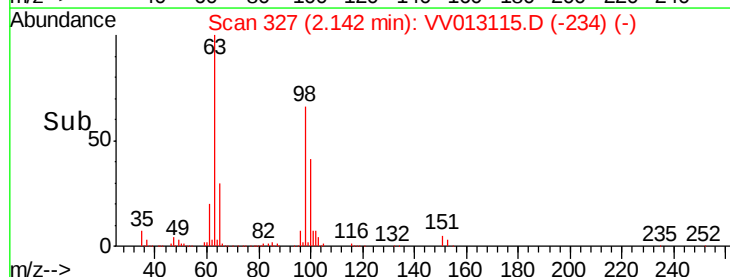
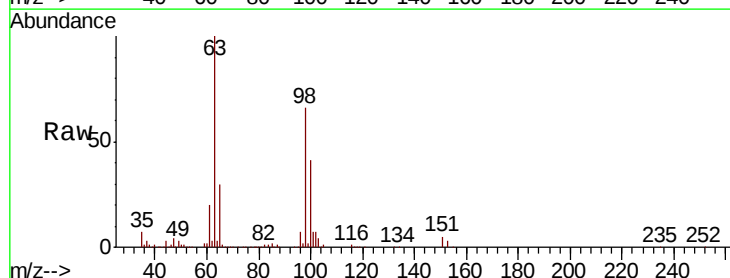
Tgt Ion: 96 Resp: 11900

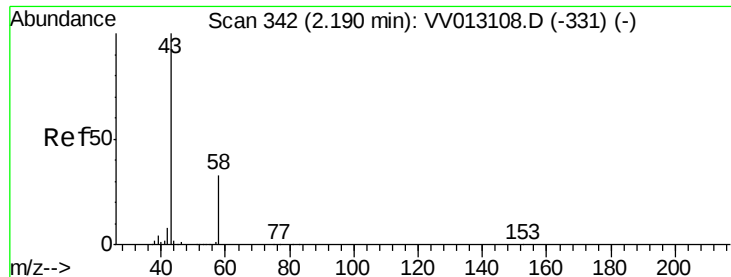
Ion Ratio Lower Upper

96 100

61 285.0 115.7 214.9#

63 1404.1 84.3 156.5#





#13

Acetone

Concen: 3.614 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

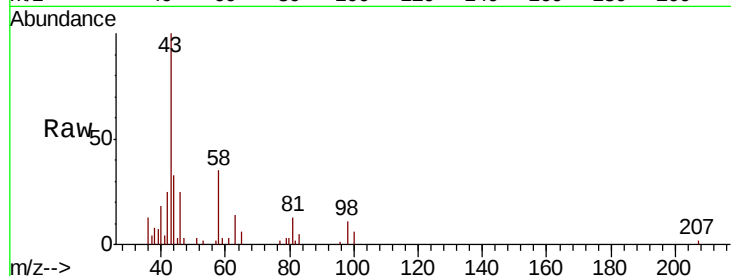
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 10771

Ion Ratio Lower Upper

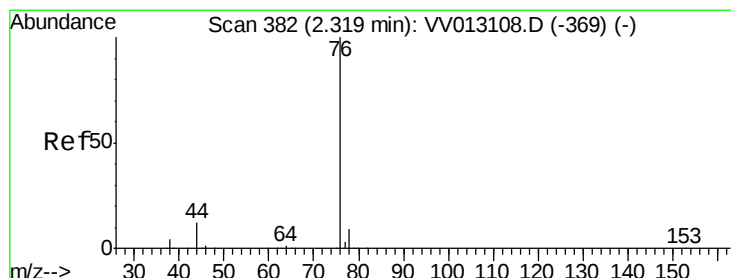
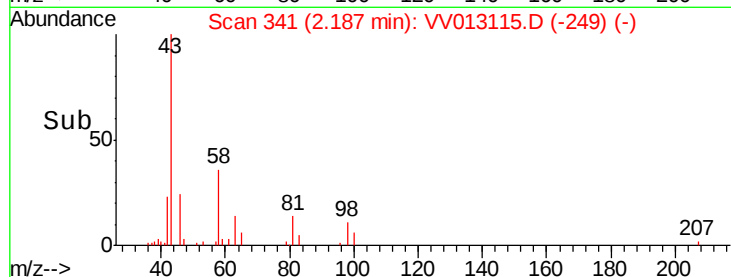
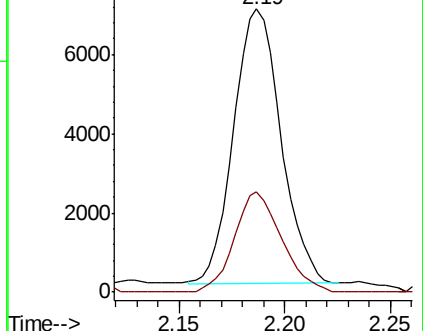
43 100

58 36.4 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VV013108.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV013108.D (-331) (-)



#14

Carbon disulfide

Concen: 2.238 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV013115.D

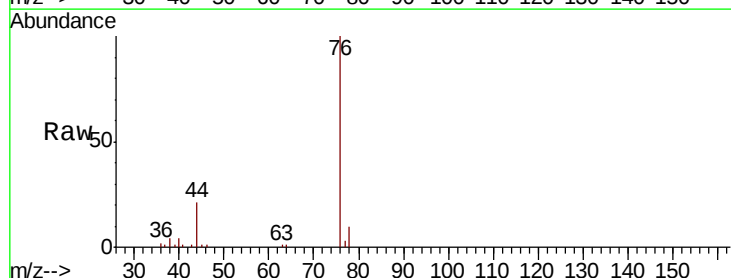
Acq: 11 Oct 2019 21:31

Tgt Ion: 76 Resp: 27484

Ion Ratio Lower Upper

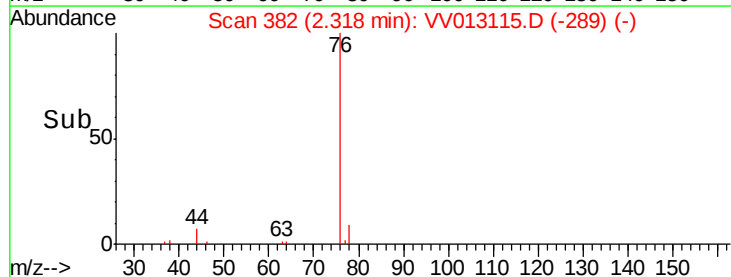
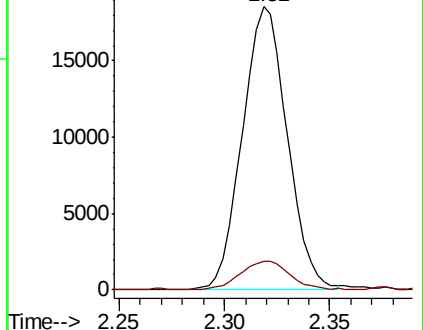
76 100

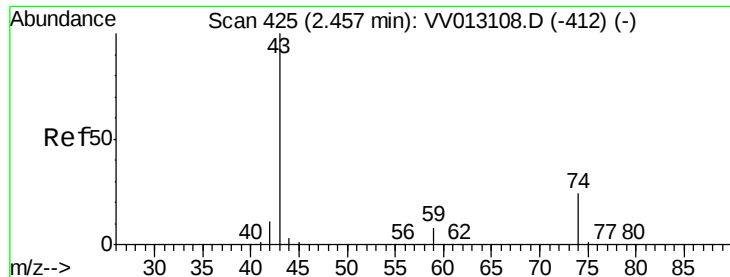
78 10.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV013108.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV013108.D (-369) (-)

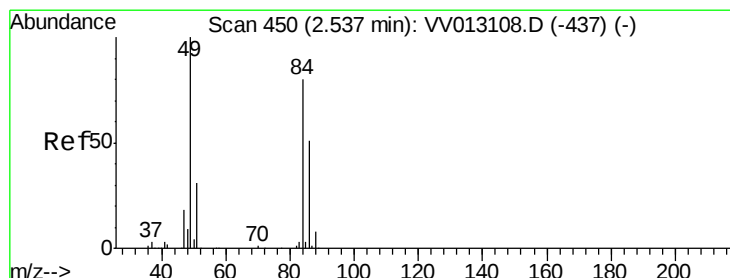
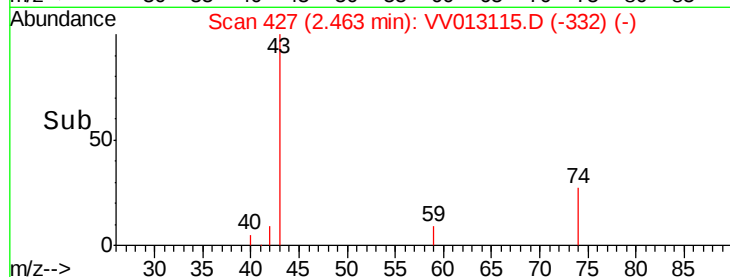
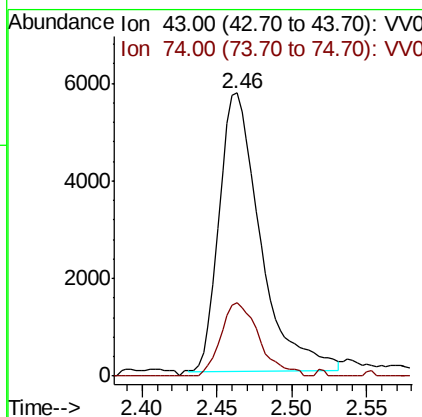
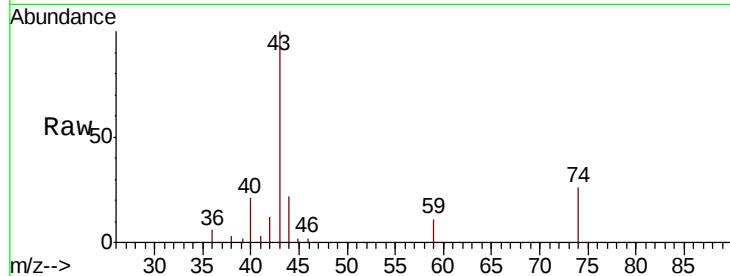




#15
Methvl Acetate
Concen: 2.074 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

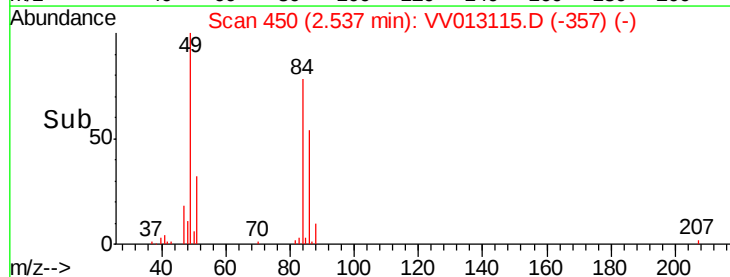
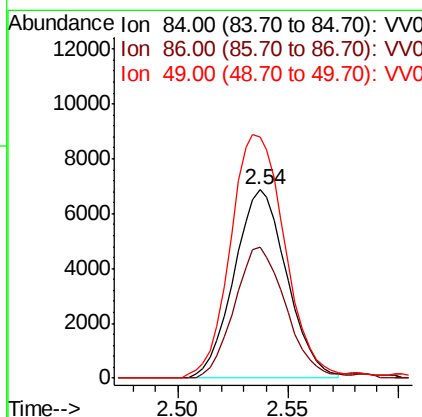
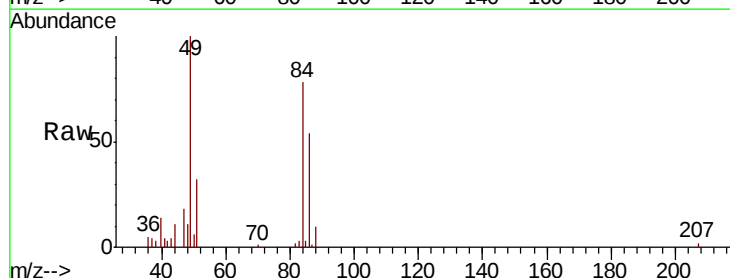
Instrument :
MSVOA_V
ClientSampleId :

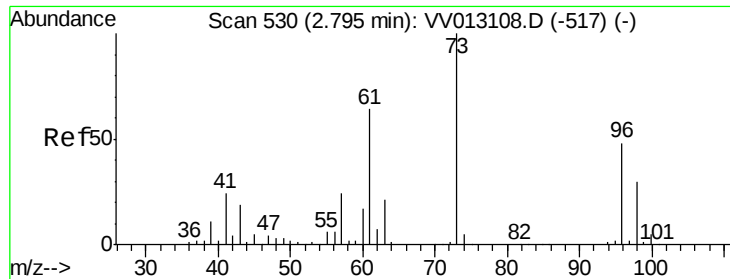
Tot Ion: 43 Resp: 10952
Ion Ratio Lower Upper
43 100
74 24.6 18.4 27.6



#16
Methylene chloride
Concen: 2.266 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

Tgt Ion: 84 Resp: 11420
Ion Ratio Lower Upper
84 100
86 69.7 45.1 83.9
49 128.3 87.8 163.0





#17

trans-1,2-Dichloroethene

Concen: 2.053 ug/L

RT: 2.79 min Scan# 530

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :
MSVOA_V
ClientSampled :

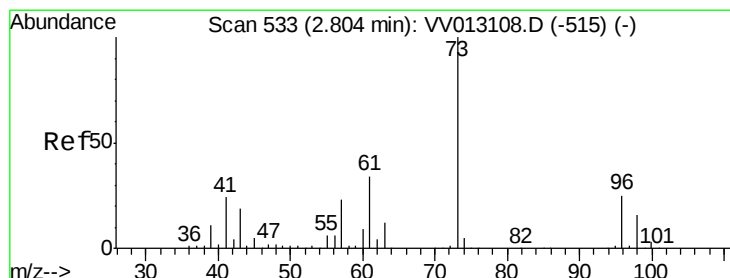
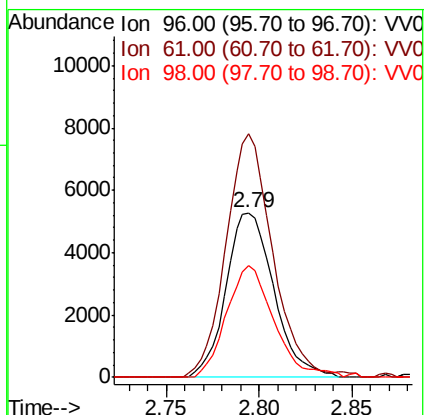
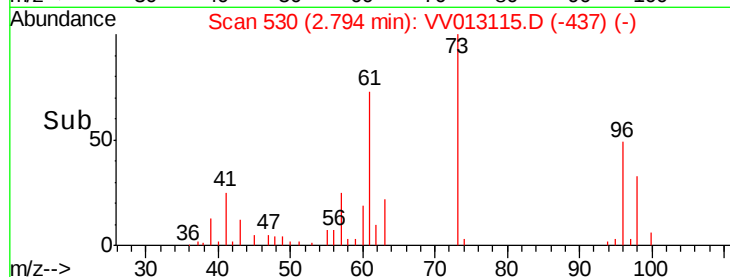
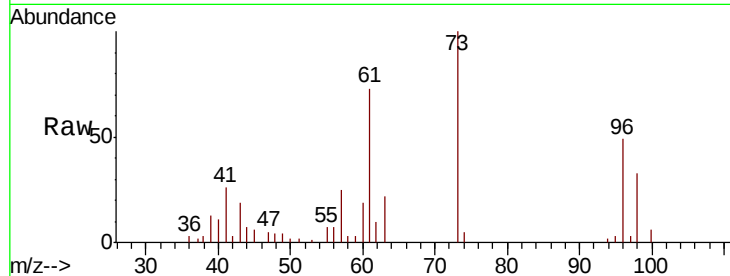
Tot Ion: 96 Resp: 9433

Ion Ratio Lower Upper

96 100

61 148.1 93.9 174.5

98 67.6 43.9 81.5



#18

Methyl tert-butyl Ether

Concen: 1.994 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

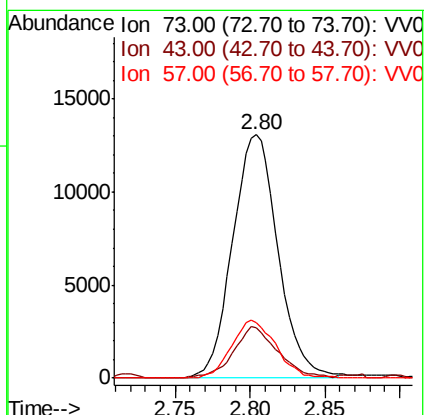
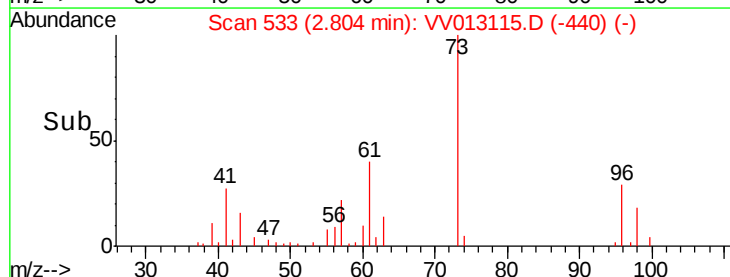
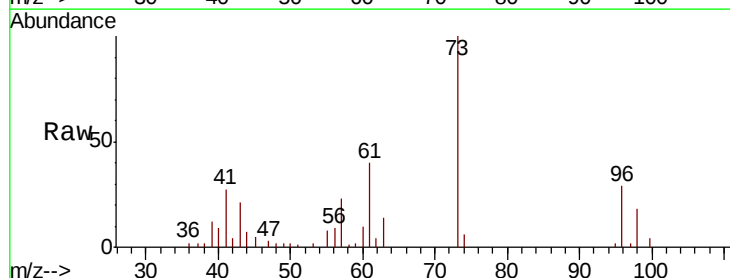
Tgt Ion: 73 Resp: 27652

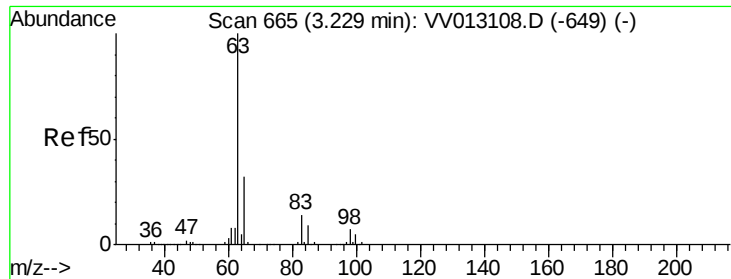
Ion Ratio Lower Upper

73 100

43 20.7 15.0 22.6

57 22.9 18.2 27.2

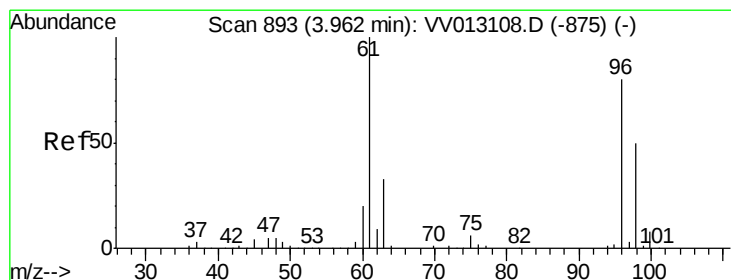
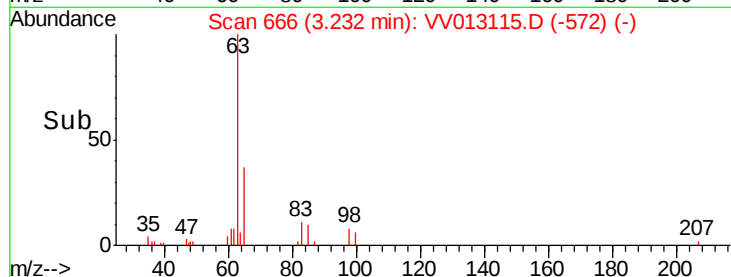
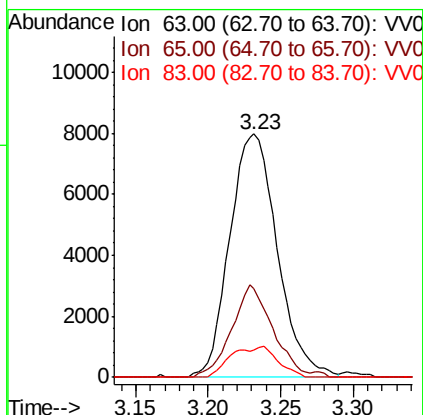
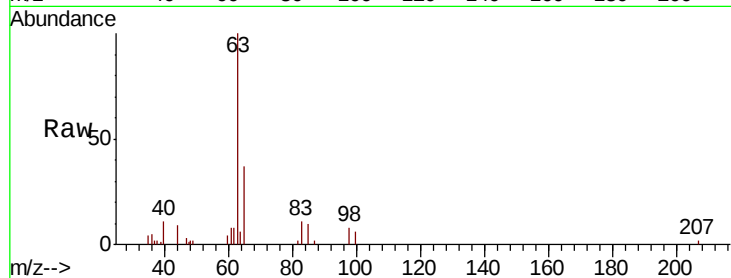




#19
 1,1-Dichloroethane
 Concen: 2.106 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

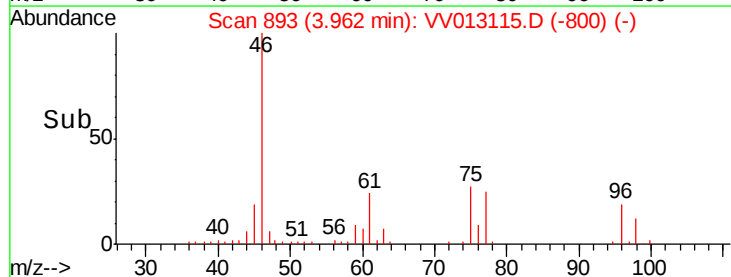
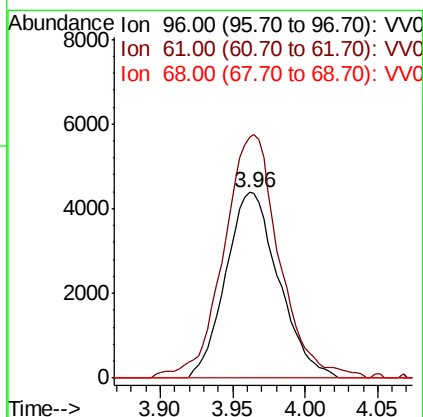
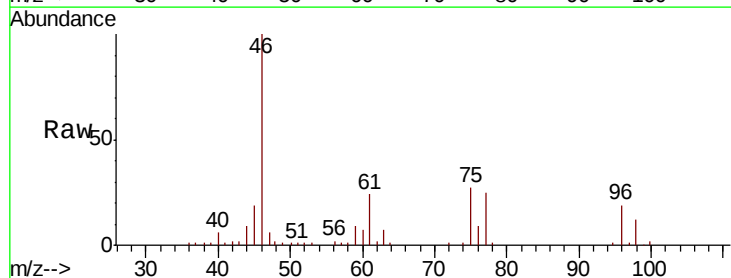
Instrument :
 MSVOA_V
 ClientSampled :

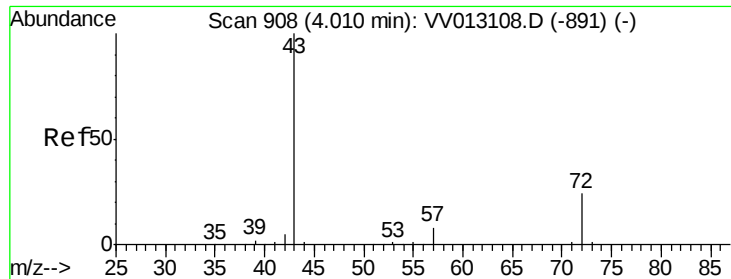
Tot Ion	Ratio	Lower	Upper
63	100		
65	36.6	22.1	41.1
83	11.2	9.5	17.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.141 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.2	87.5	162.5
68	0.0	0.0	0.0

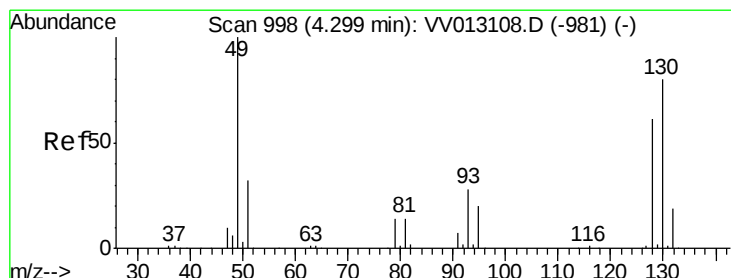
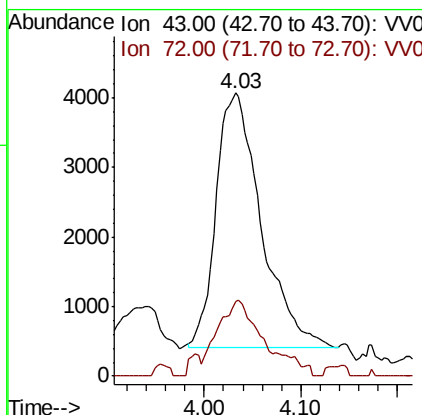
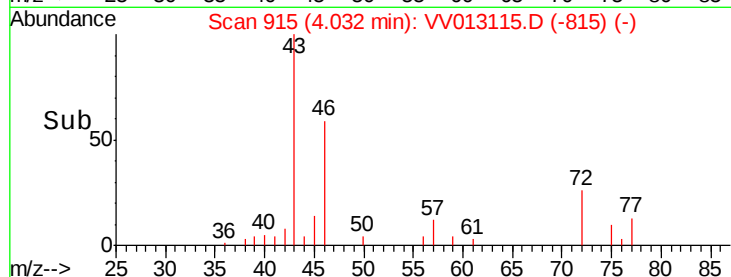
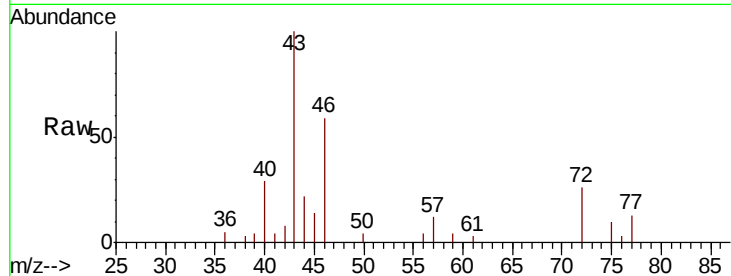




#22
2-Butanone
Concen: 3.109 ug/L
RT: 4.03 min Scan# 915
Delta R.T. 0.02 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

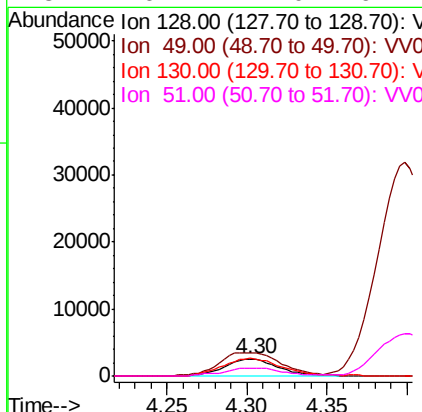
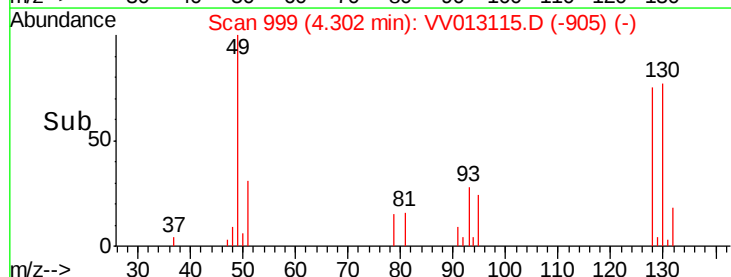
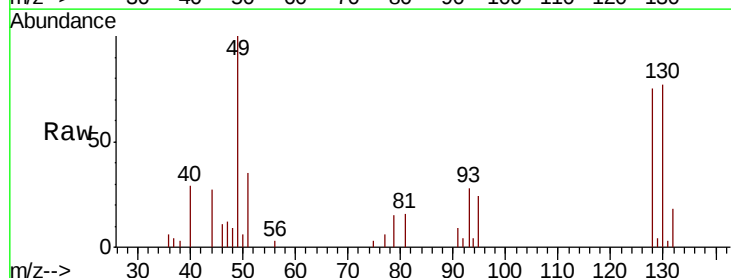
Instrument :
MSVOA_V
ClientSampleId :

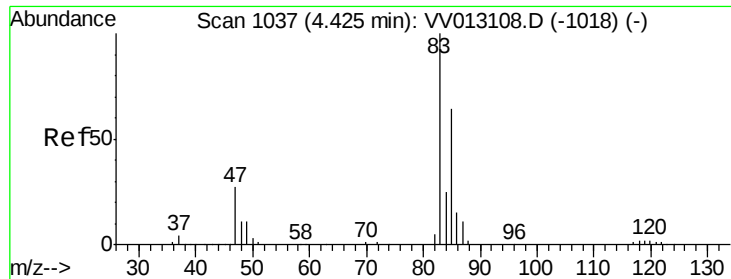
Tot Ion: 43 Resp: 11794
Ion Ratio Lower Upper
43 100
72 11.4 12.8 38.4#



#23
Bromochloromethane
Concen: 2.212 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.00 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

Tgt Ion:128 Resp: 5842
Ion Ratio Lower Upper
128 100
49 133.1 114.0 211.6
130 101.8 90.8 168.6
51 46.4 41.0 61.4

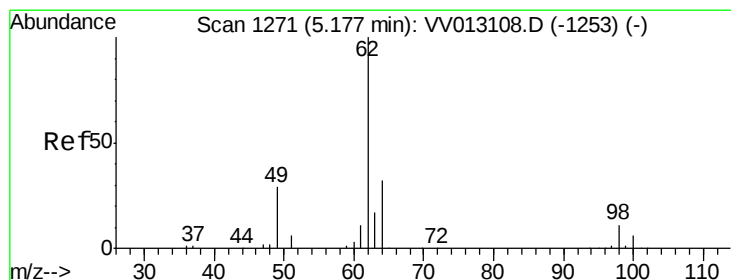
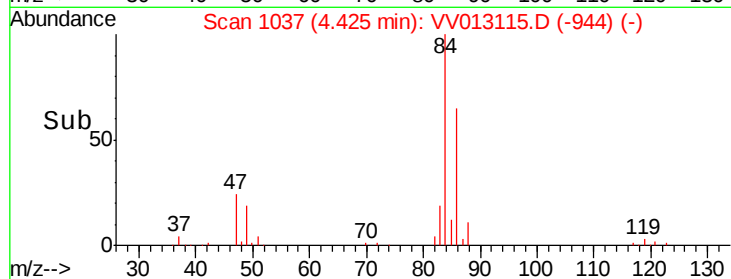
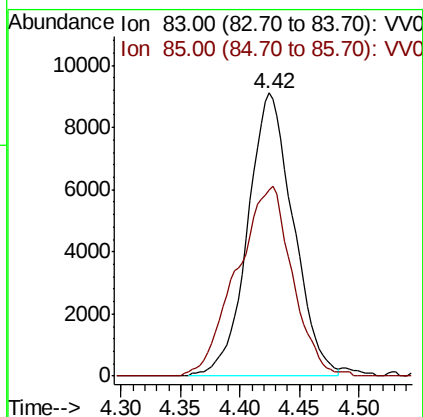
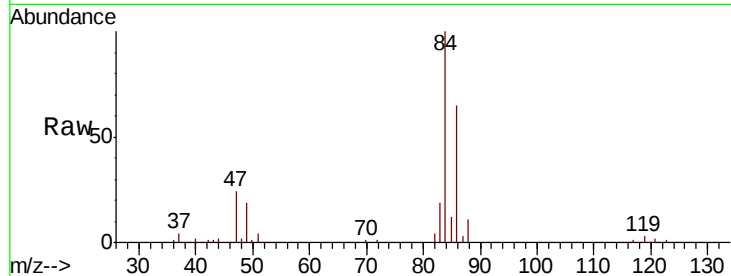




#25
Chloroform
Concen: 2.765 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

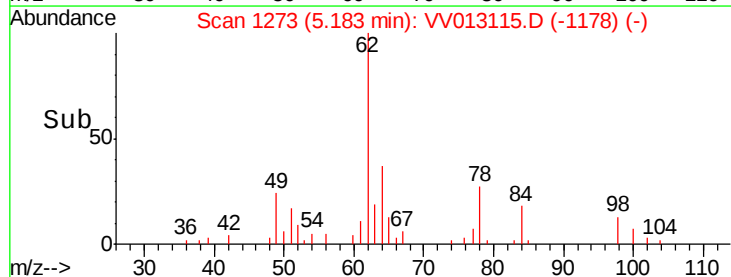
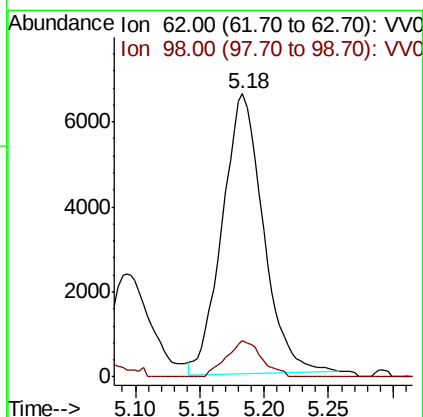
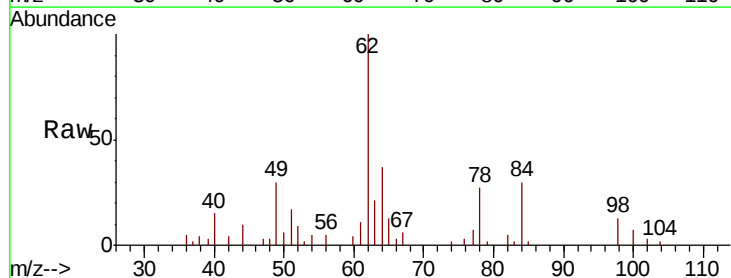
Instrument :
MSVOA_V
ClientSampled :

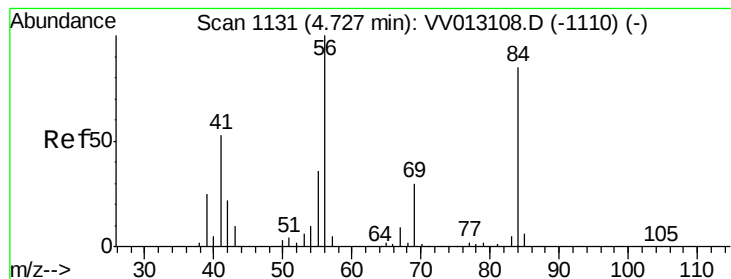
Tot Ion: 83 Resp: 24142
Ion Ratio Lower Upper
83 100
85 65.9 44.7 82.9



#27
1,2-Dichloroethane
Concen: 2.164 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

Tgt Ion: 62 Resp: 14487
Ion Ratio Lower Upper
62 100
98 12.6 8.3 12.5#





#29

Cyclohexane

Concen: 1.953 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

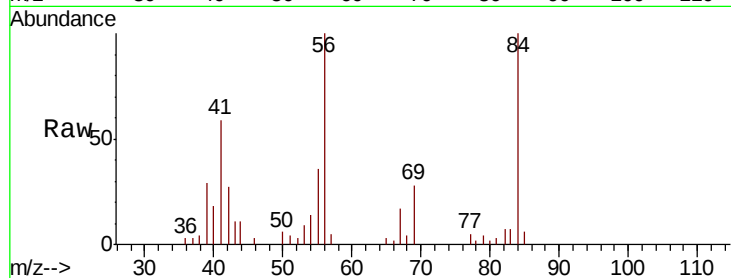
Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

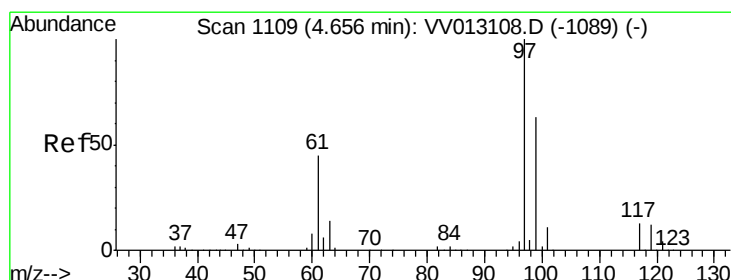
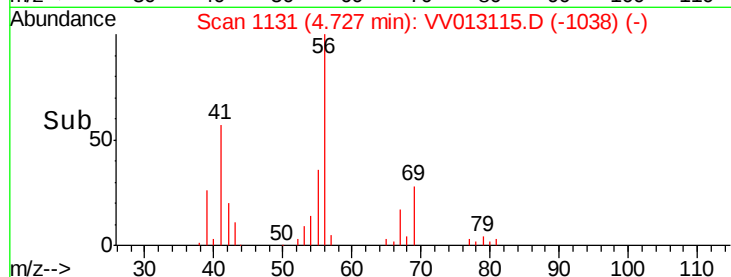
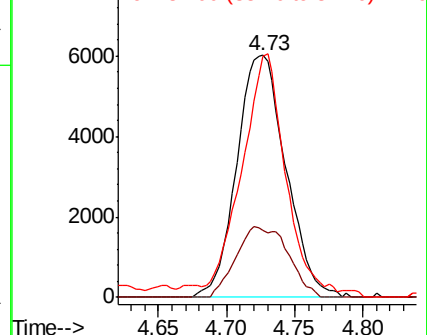
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 56 Resp: 15093

Ion	Ratio	Lower	Upper
56	100		
69	18.6	24.2	36.4#
84	86.5	69.9	104.9



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 2.041 ug/L

RT: 4.66 min Scan# 1110

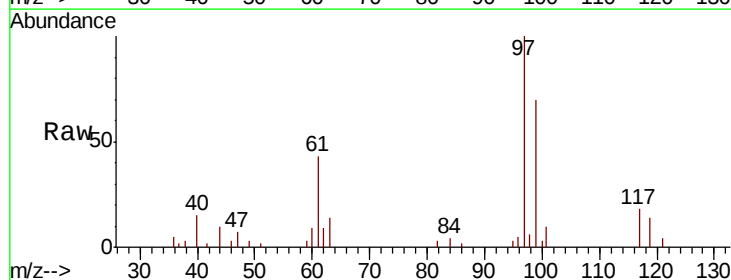
Delta R.T. 0.00 min

Lab File: VV013115.D

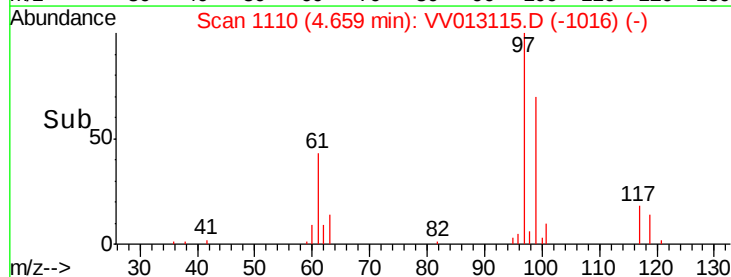
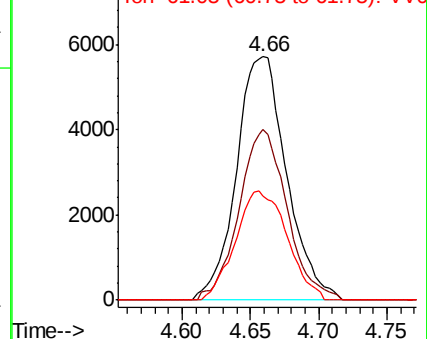
Acq: 11 Oct 2019 21:31

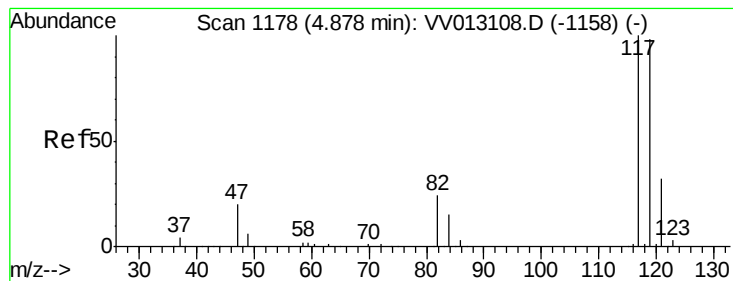
Tgt Ion: 97 Resp: 14616

Ion	Ratio	Lower	Upper
97	100		
99	66.3	51.9	77.9
61	46.1	36.8	55.2



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 2.040 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :

MSVOA_V

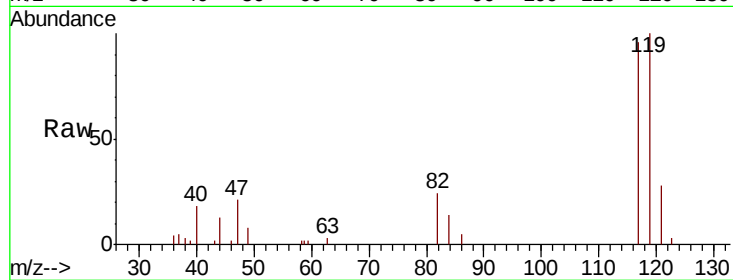
ClientSampleId :

Tot Ion:117 Resp: 12984

Ion Ratio Lower Upper

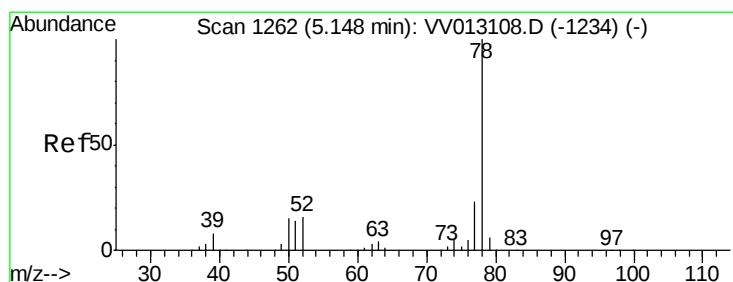
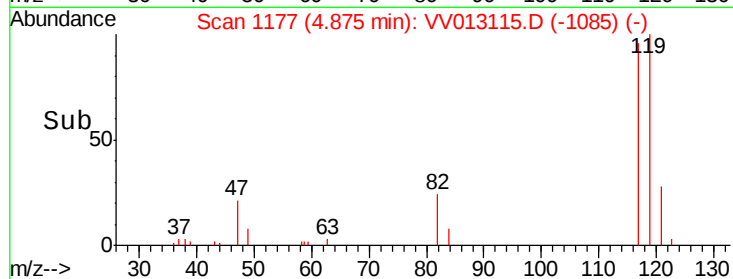
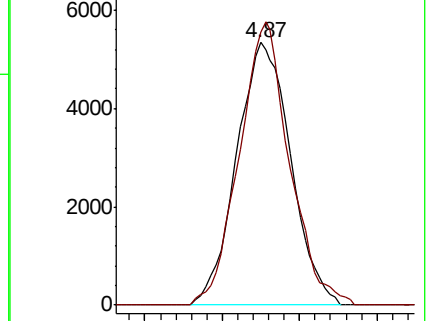
117 100

119 100.1 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.063 ug/L

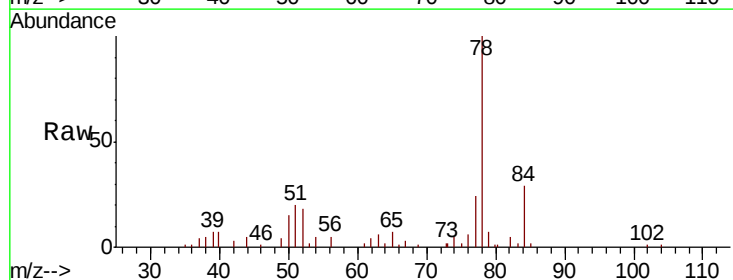
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

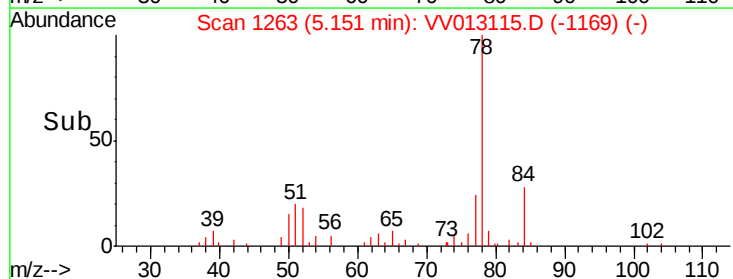
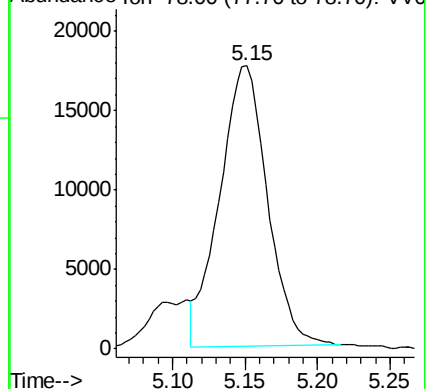
Lab File: VV013115.D

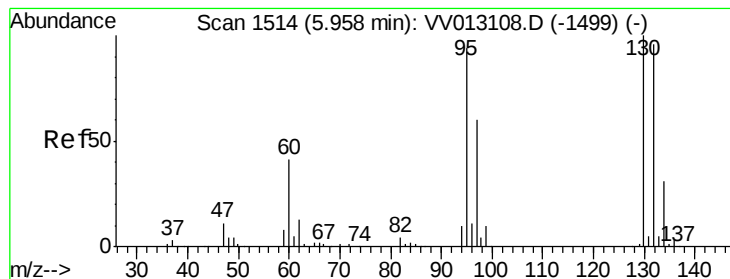
Acq: 11 Oct 2019 21:31

Tgt Ion: 78 Resp: 40550



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.228 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 11659

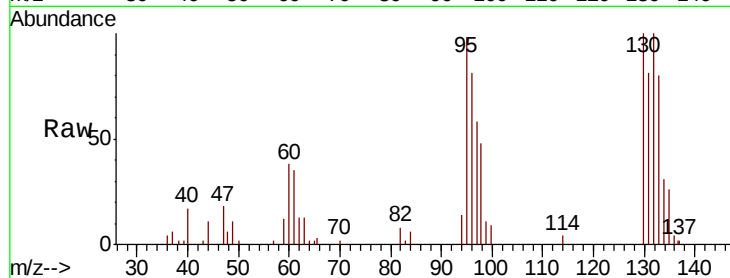
Ion Ratio Lower Upper

95 100

97 59.4 44.7 82.9

132 101.9 71.4 132.6

130 101.9 74.2 137.8

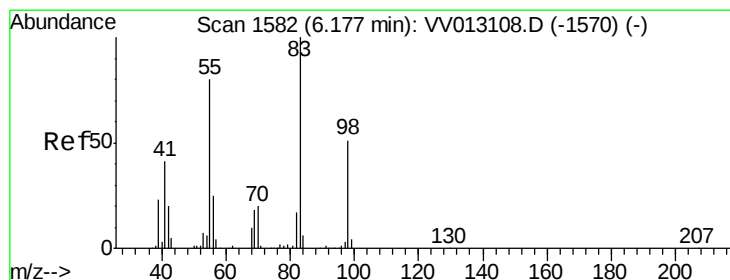
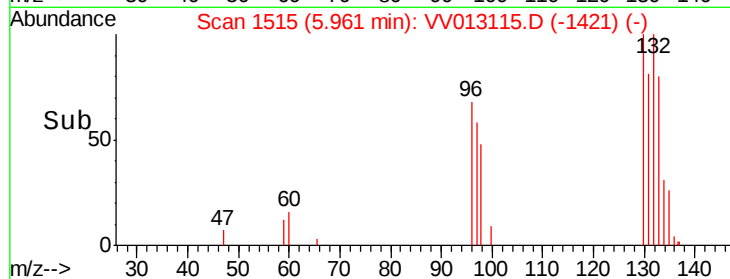
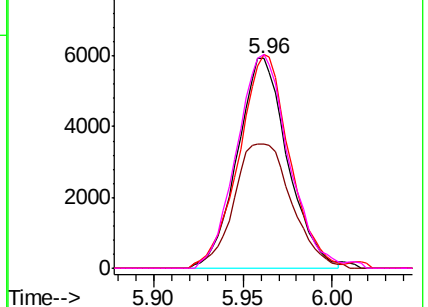


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#35

Methylcyclohexane

Concen: 1.848 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

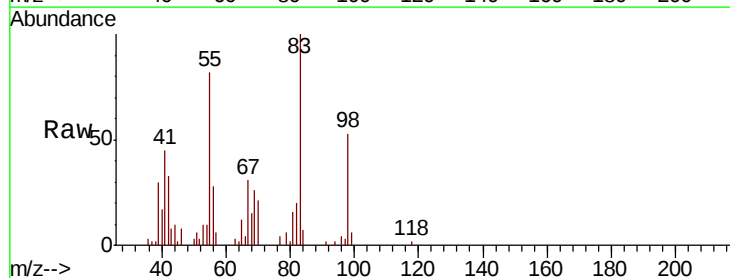
Tgt Ion: 83 Resp: 14632

Ion Ratio Lower Upper

83 100

55 86.6 61.2 91.8

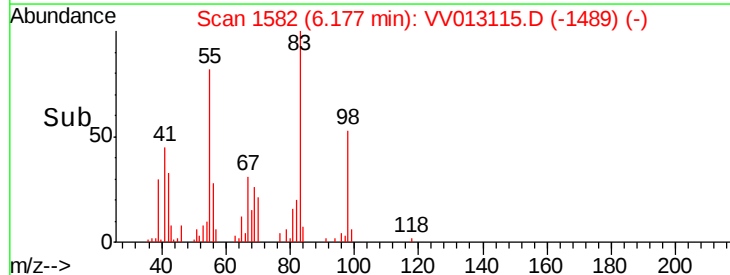
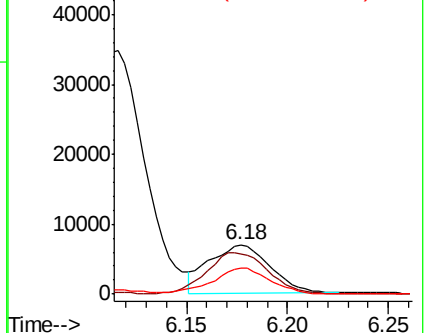
98 50.4 40.1 60.1

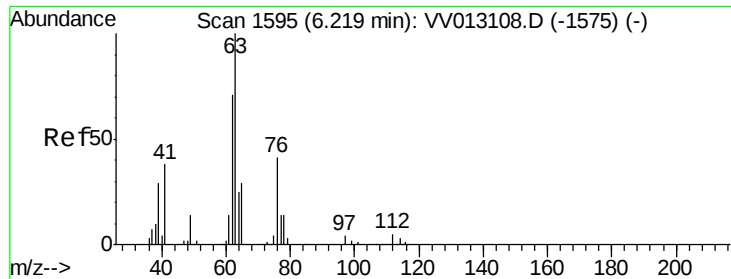


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

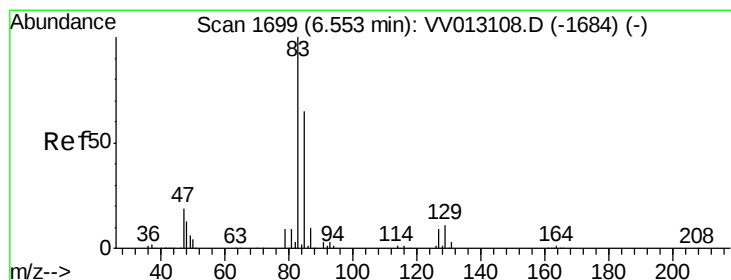
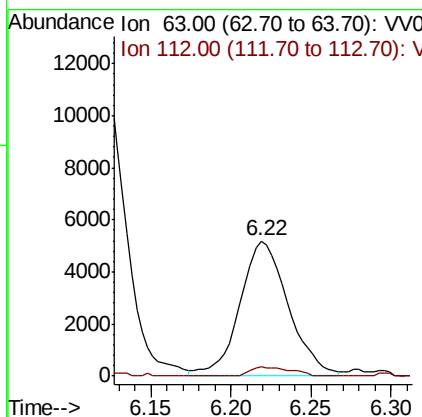
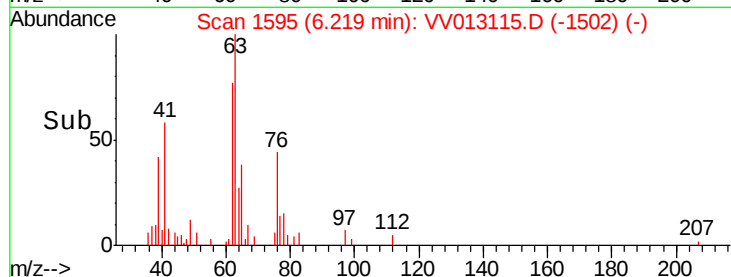
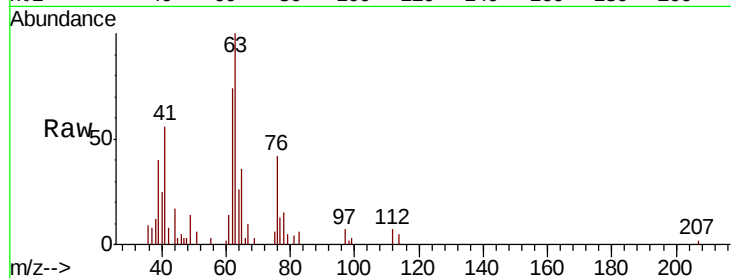




#37
 1,2-Dichloropropane
 Concen: 2.117 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

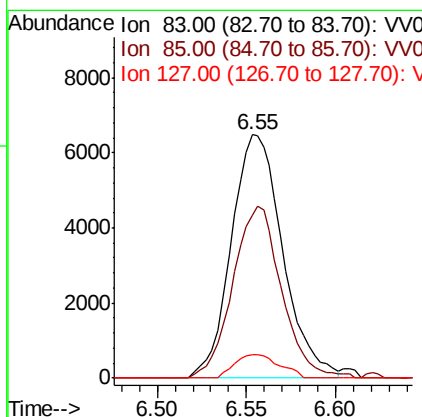
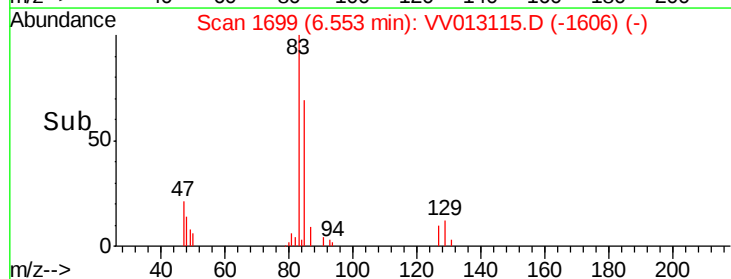
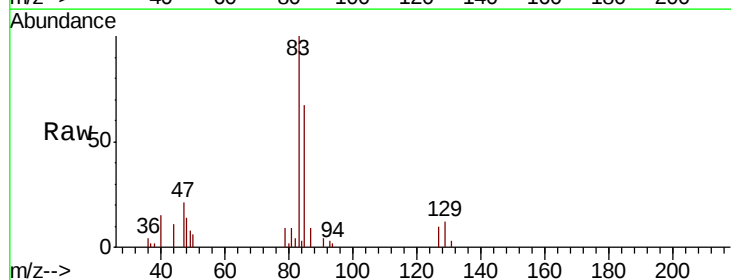
Instrument :
 MSVOA_V
 ClientSampleId :

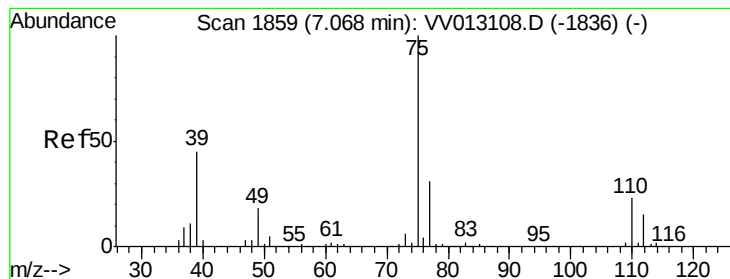
Tot Ion: 63 Resp: 10775
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.8 5.8



#38
 Bromodichloromethane
 Concen: 2.015 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

Tgt Ion: 83 Resp: 13049
 Ion Ratio Lower Upper
 83 100
 85 67.2 45.8 85.0
 127 9.8 7.4 11.0



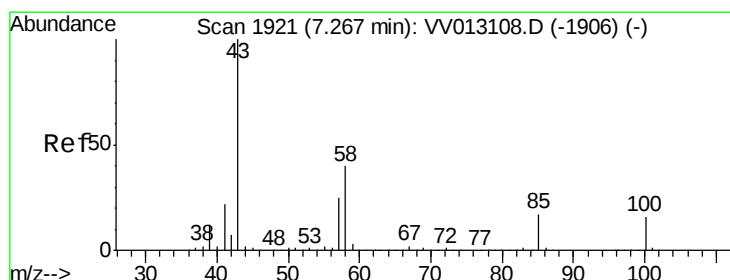
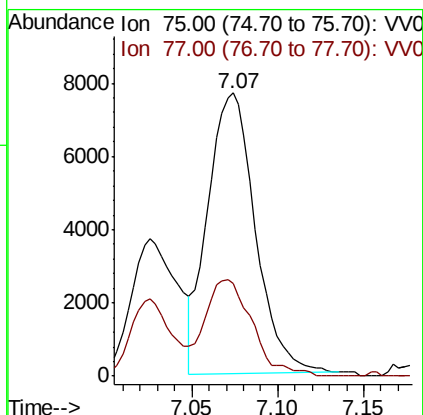
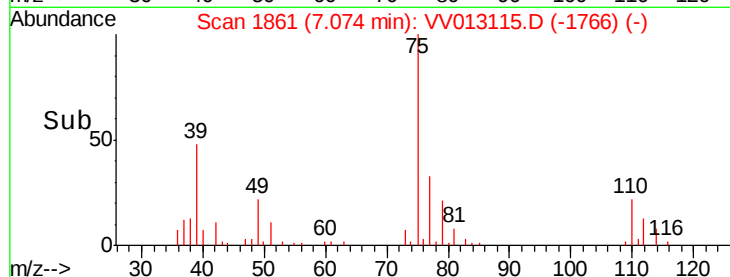
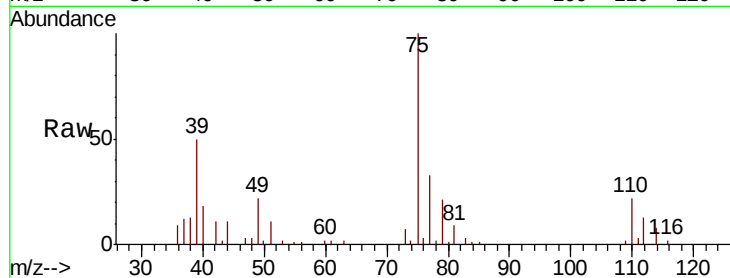


#39

cis-1,3-Dichloropropene
 Concen: 1.969 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.01 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

Instrument :
 MSVOA_V
 ClientSampled :

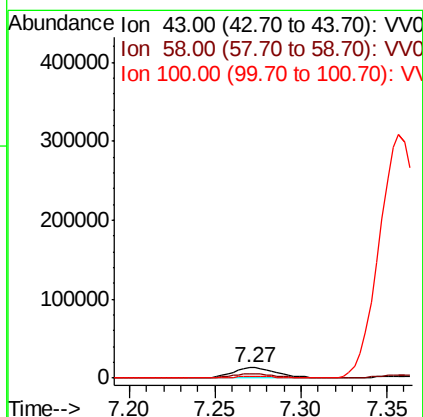
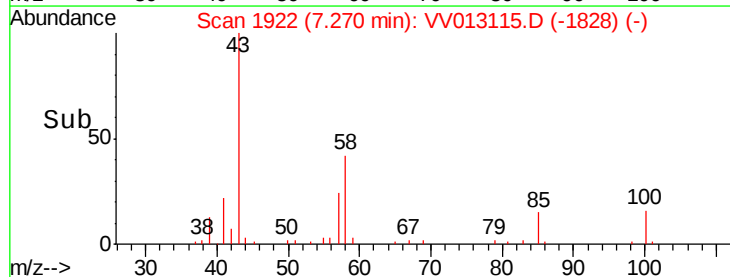
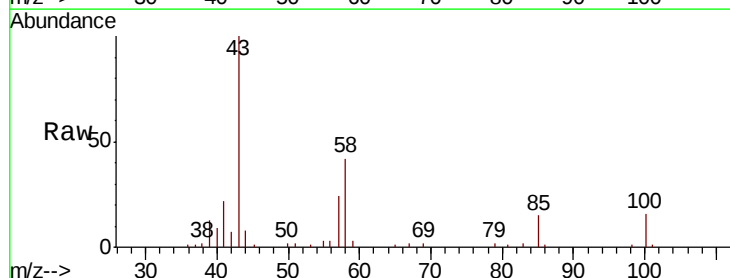
Tot Ion: 75 Resp: 14820
 Ion Ratio Lower Upper
 75 100
 77 32.7 21.7 40.3

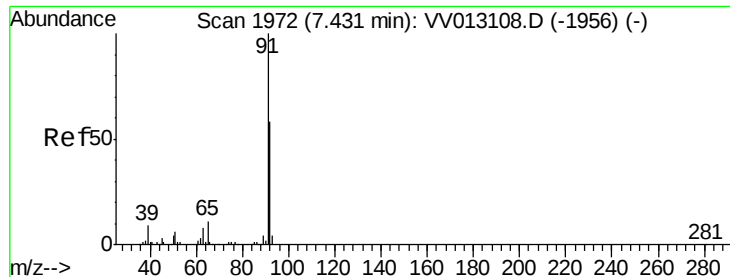


#40

4-Methyl-2-pentanone
 Concen: 3.655 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

Tgt Ion: 43 Resp: 24356
 Ion Ratio Lower Upper
 43 100
 58 41.8 32.0 48.0
 100 16.0 12.7 19.1





#42

Toluene

Concen: 2.146 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

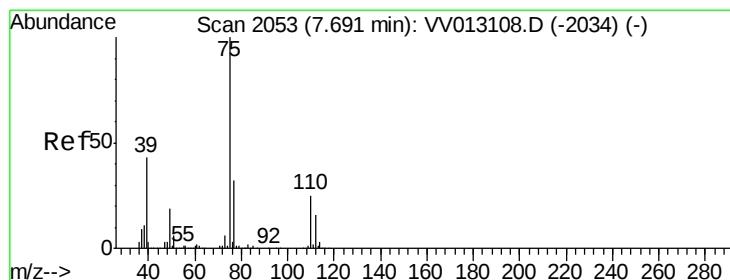
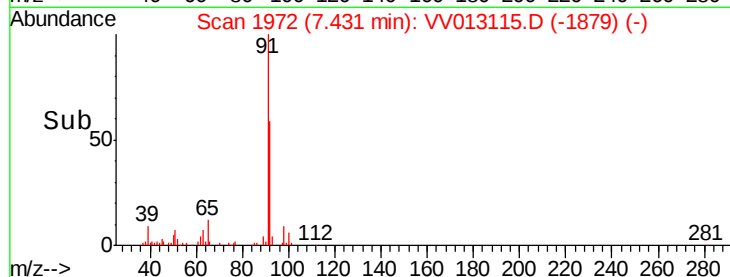
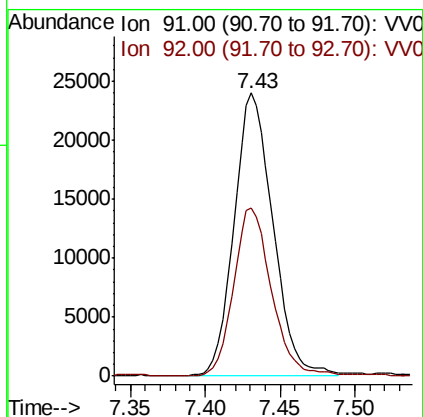
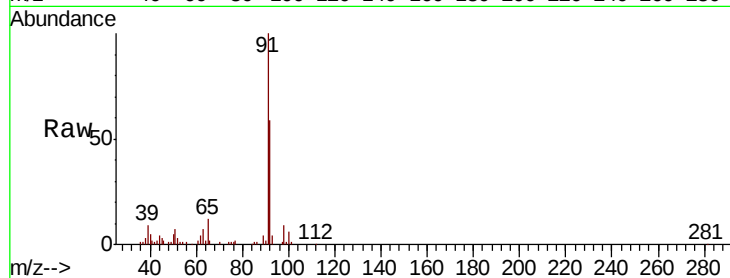
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 43438

Ion Ratio Lower Upper

91 100

92 59.4 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 1.919 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV013115.D

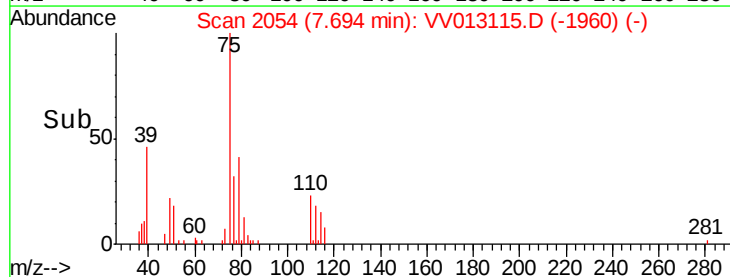
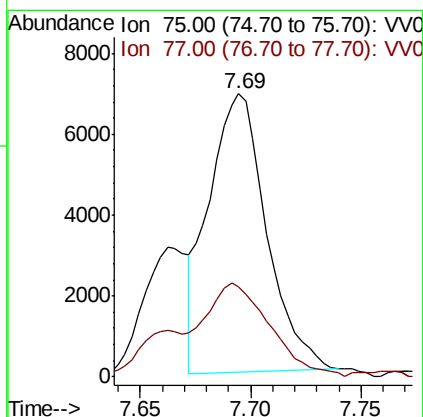
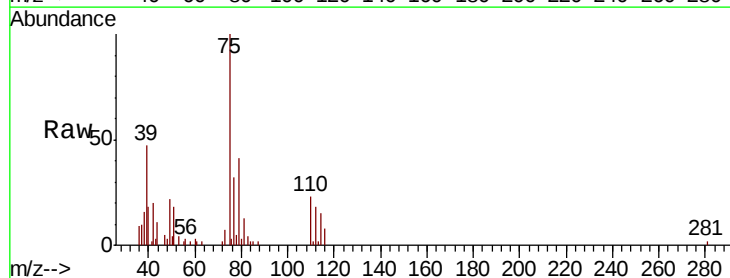
Acq: 11 Oct 2019 21:31

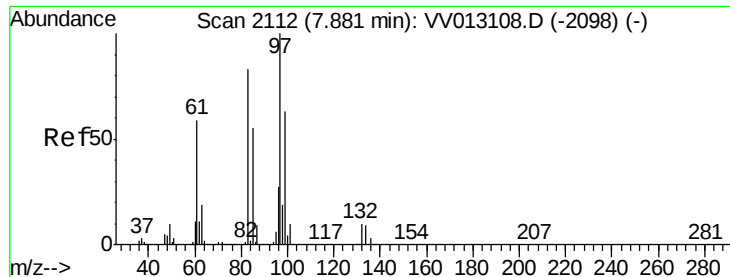
Tgt Ion: 75 Resp: 12524

Ion Ratio Lower Upper

75 100

77 31.7 22.0 41.0

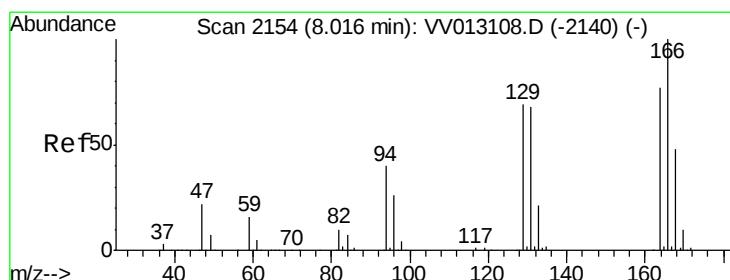
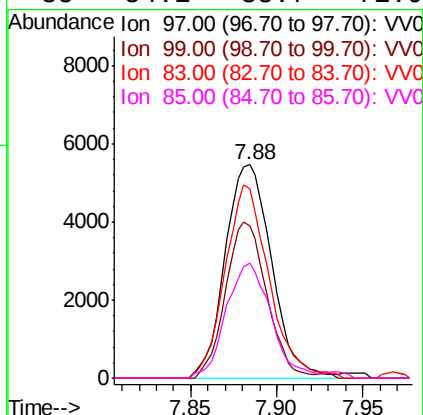
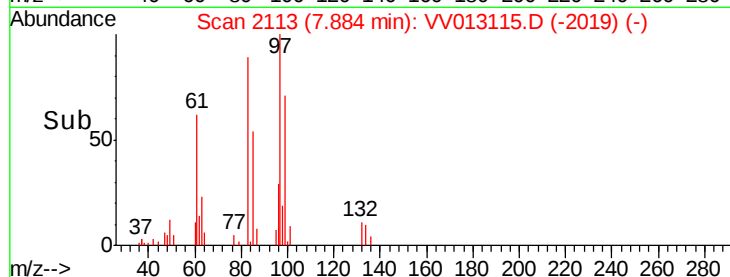
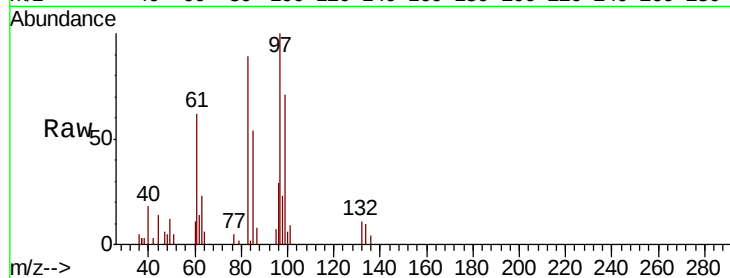




#45
 1,1,2-Trichloroethane
 Concen: 2.129 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

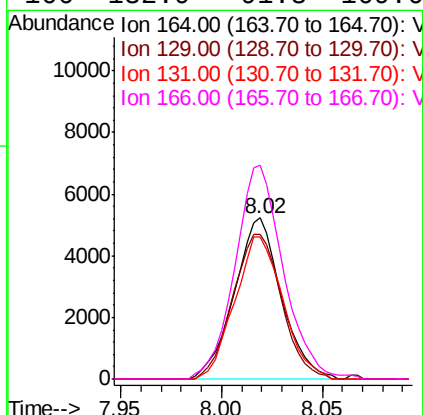
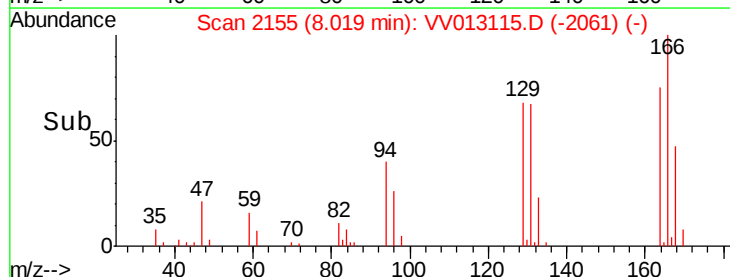
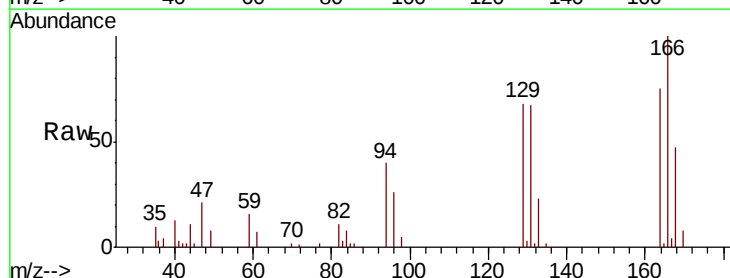
Instrument :
 MSVOA_V
 ClientSampleId :

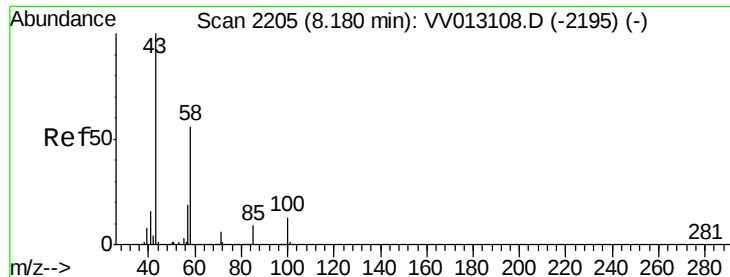
Tot Ion:	97	Resp:	10287
Ion	Ratio	Lower	Upper
97	100		
99	71.3	44.4	82.5
83	89.0	58.2	108.0
85	54.1	38.7	71.9



#46
 Tetrachloroethene
 Concen: 2.062 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

Tgt Ion:	164	Resp:	8543
Ion	Ratio	Lower	Upper
164	100		
129	90.1	63.1	117.1
131	88.7	62.4	116.0
166	132.9	91.3	169.6

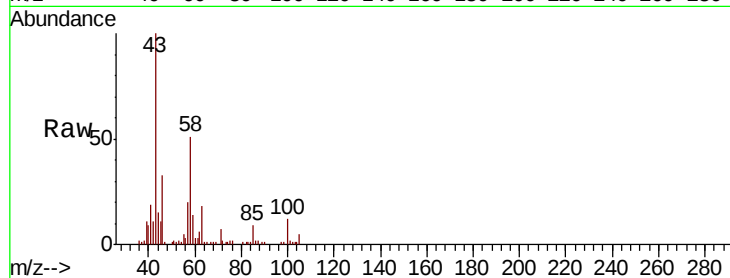




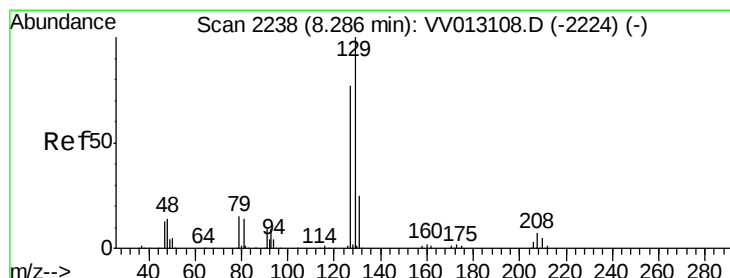
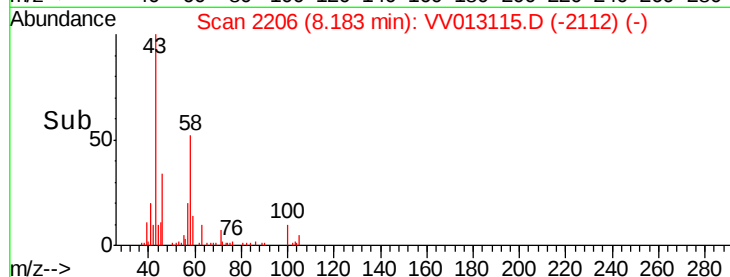
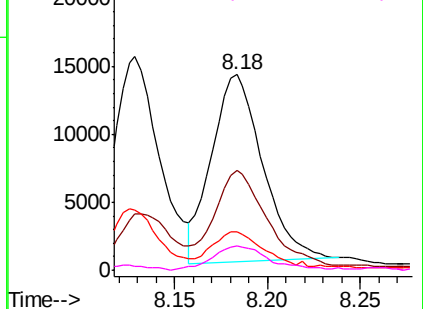
#48
2-Hexanone
Concen: 5.146 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	43	Resp:	26515
Ion	Ratio	Lower	Upper
43	100		
58	51.9	44.9	67.3
57	19.0	15.0	22.6
100	14.4	10.2	15.2

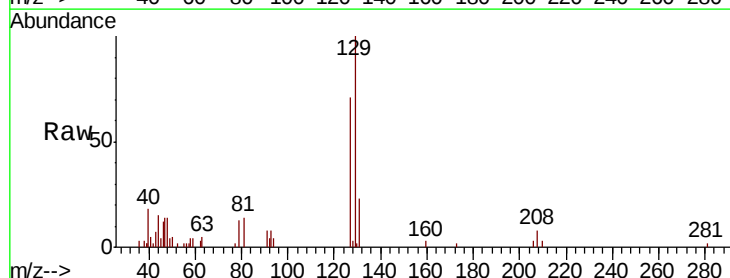


Abundance Ion 43.00 (42.70 to 43.70): VV013108.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV013108.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV013108.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV013108.D (-2195) (-)

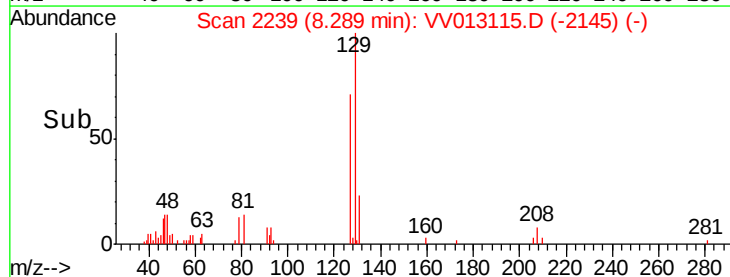
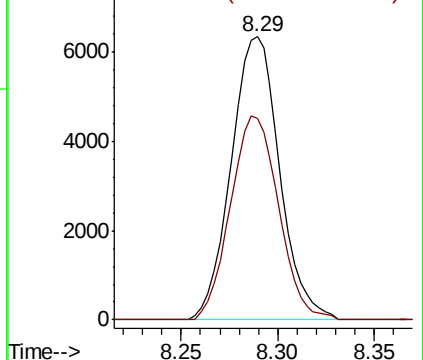


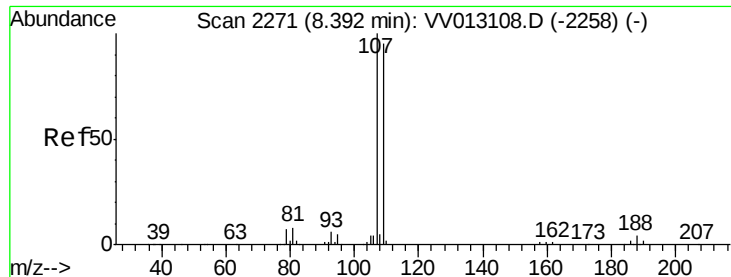
#49
Dibromochloromethane
Concen: 2.100 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV013115.D
Acq: 11 Oct 2019 21:31

Tgt Ion:	129	Resp:	11058
Ion	Ratio	Lower	Upper
129	100		
127	71.0	54.0	100.4



Abundance Ion 129.00 (128.70 to 129.70): VV013108.D (-2224) (-)
Ion 127.00 (126.70 to 127.70): VV013108.D (-2224) (-)





#50

1,2-Dibromoethane

Concen: 2.032 ug/L

RT: 8.40 min Scan# 2272

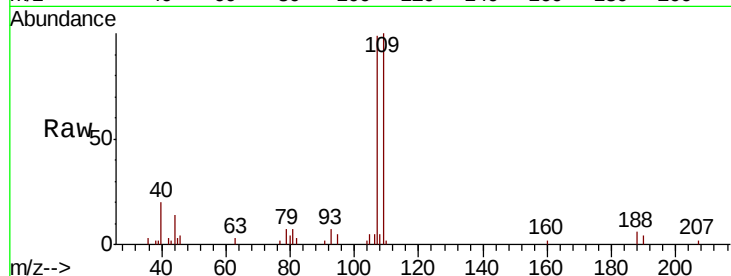
Delta R.T. 0.00 min

Lab File: VV013115.D

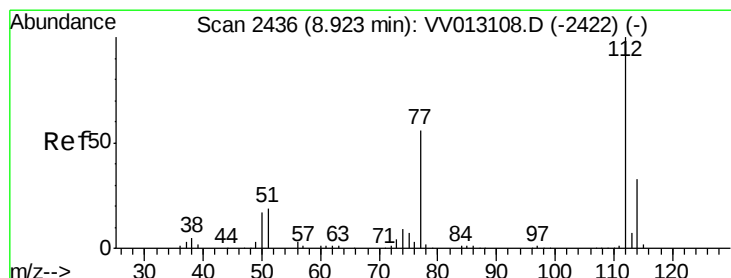
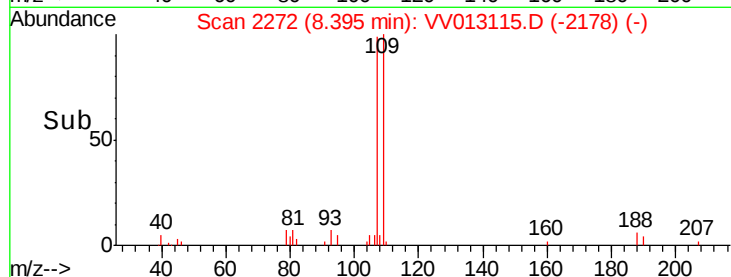
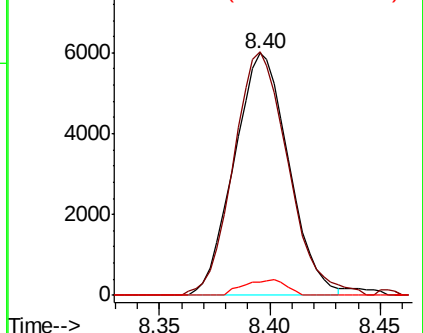
Acq: 11 Oct 2019 21:31

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:107 Resp: 10261
Ion Ratio Lower Upper
107 100
109 100.6 66.6 123.6
188 5.5 3.4 5.2#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 2.127 ug/L

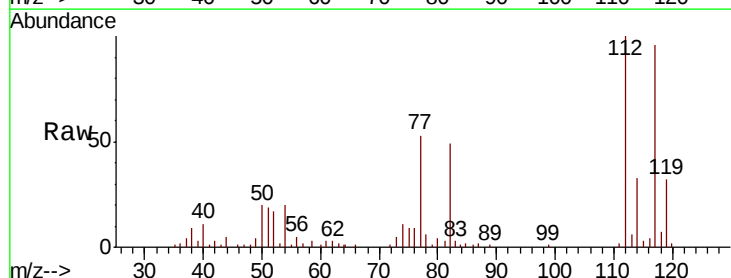
RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

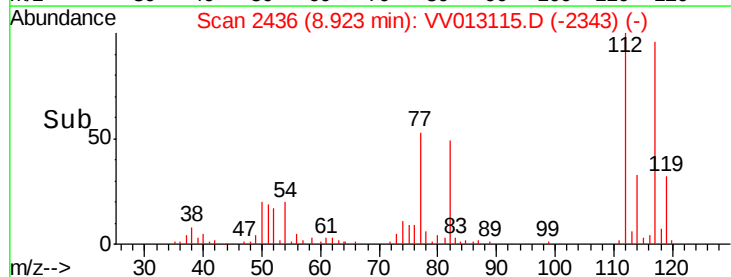
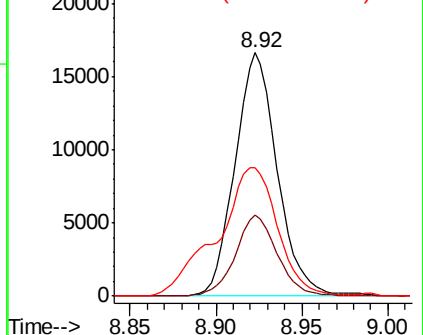
Lab File: VV013115.D

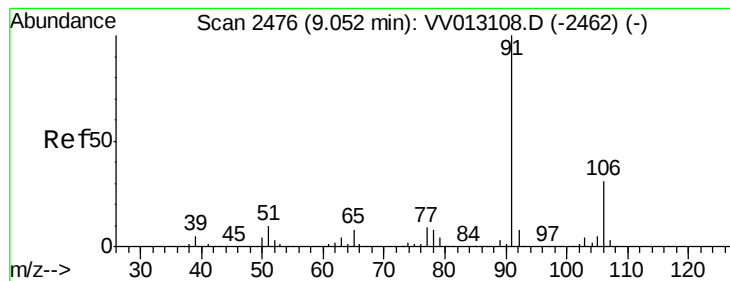
Acq: 11 Oct 2019 21:31

Tgt Ion:112 Resp: 28227
Ion Ratio Lower Upper
112 100
114 33.3 22.8 42.4
77 52.8 45.1 67.7



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 1.916 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

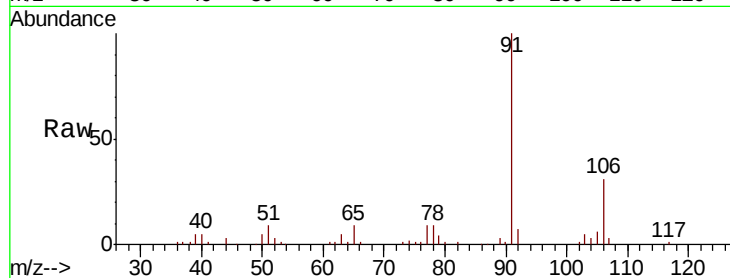
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 41406

Ion Ratio Lower Upper

91 100

106 31.2 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV013115.D (-2462) (-)

Ion 106.00 (105.70 to 106.70): VV013115.D (-2462) (-)

9.05

25000

20000

15000

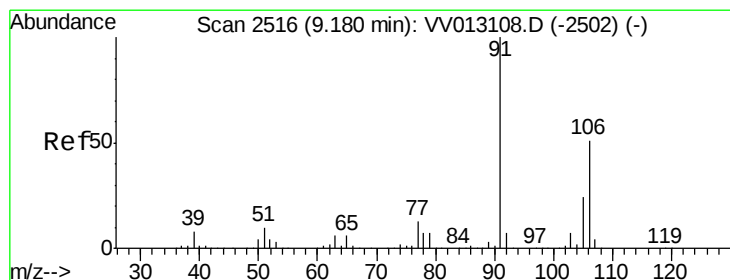
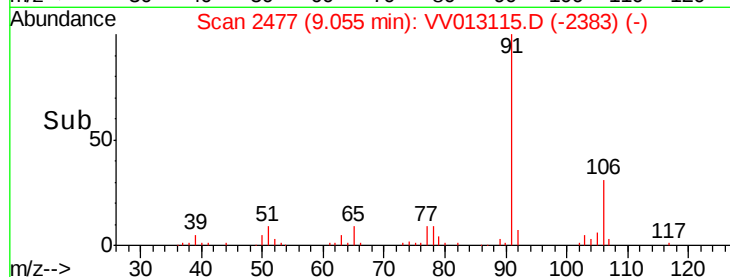
10000

5000

0

9.00 9.05 9.10

Time-->



#53

m,p-Xylene

Concen: 1.808 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV013115.D

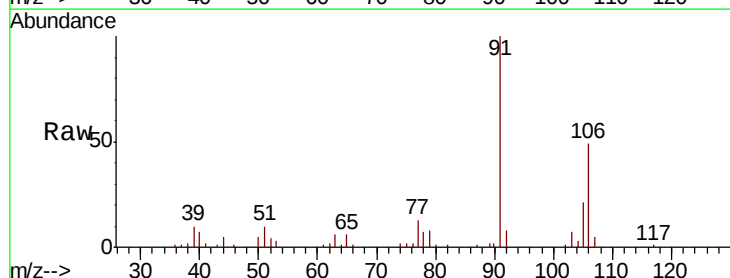
Acq: 11 Oct 2019 21:31

Tgt Ion: 106 Resp: 14706

Ion Ratio Lower Upper

106 100

91 202.1 137.8 255.8



Abundance Ion 106.00 (105.70 to 106.70): VV013115.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV013115.D (-2502) (-)

9.18

20000

15000

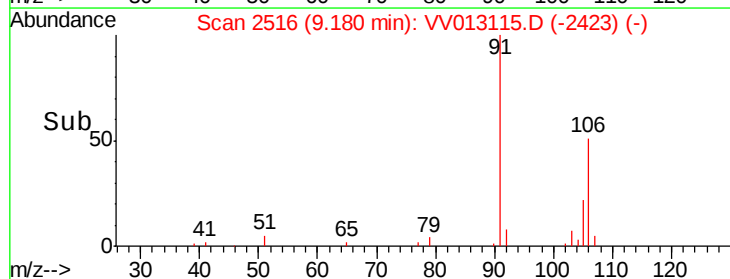
10000

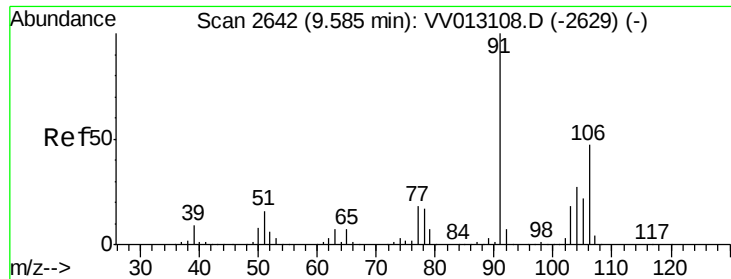
5000

0

9.15 9.20 9.25

Time-->





#54

o-xylene

Concen: 1.764 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

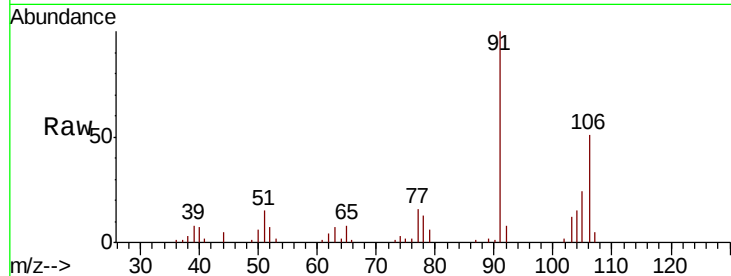
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 14369

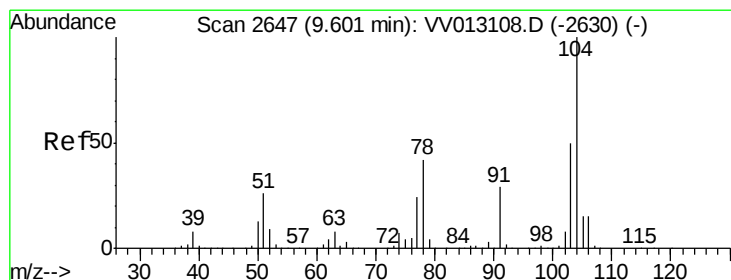
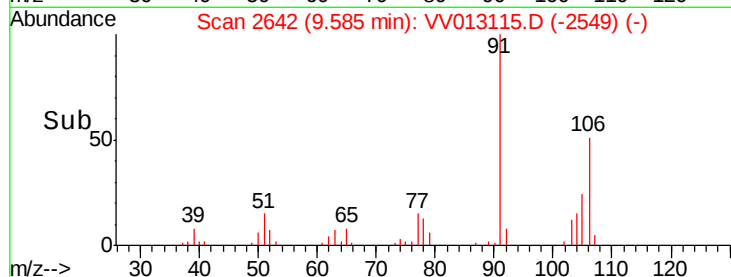
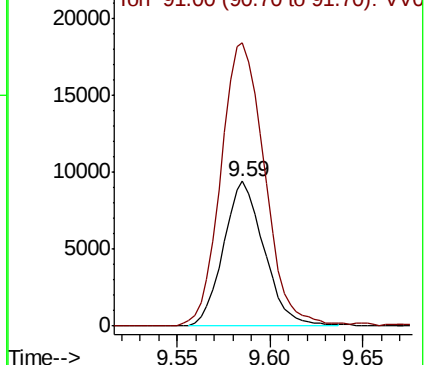
Ion Ratio Lower Upper

106 100

91 195.2 147.6 274.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.608 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV013115.D

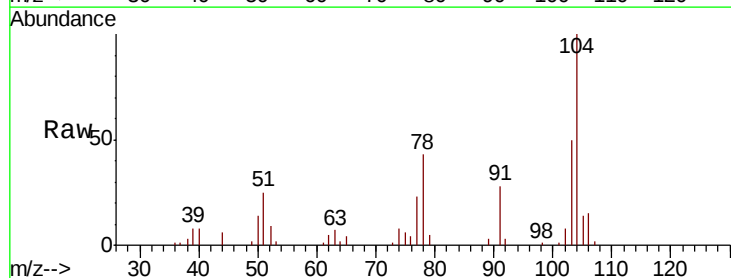
Acq: 11 Oct 2019 21:31

Tgt Ion:104 Resp: 21520

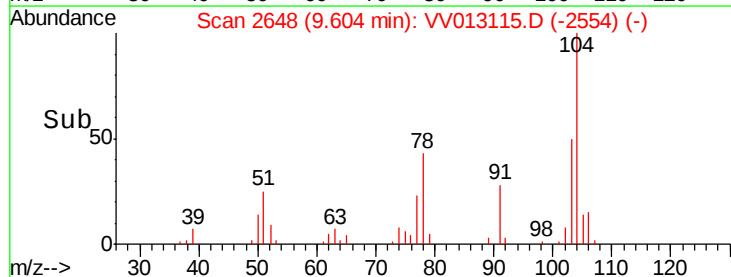
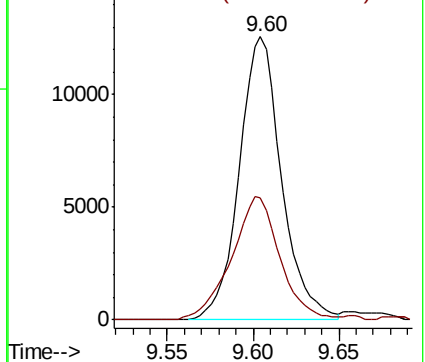
Ion Ratio Lower Upper

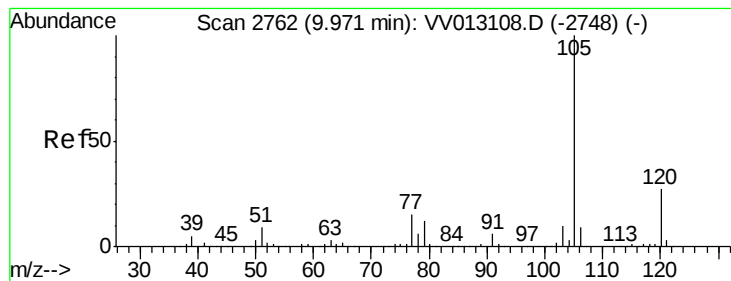
104 100

78 43.1 29.1 54.1



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 1.648 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :
MSVOA_V
ClientSampleId :

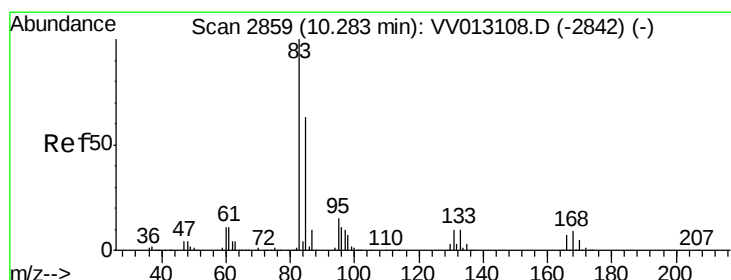
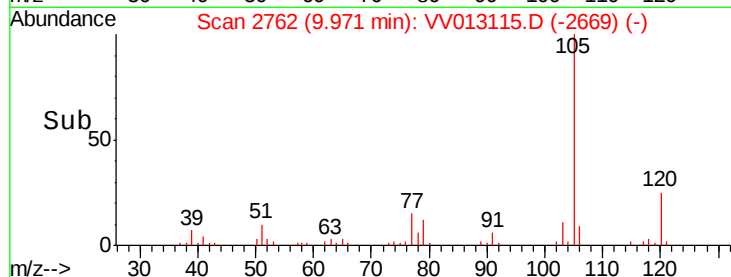
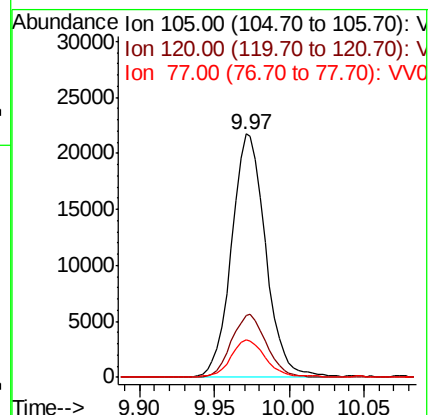
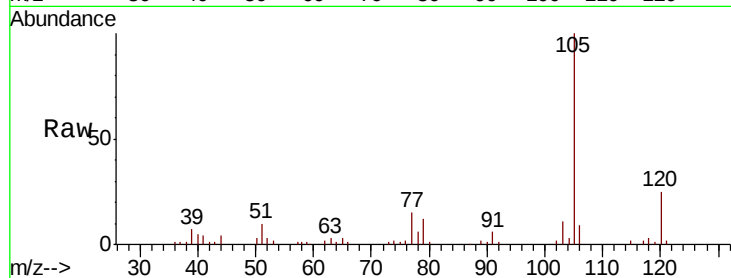
Tot Ion:105 Resp: 34488

Ion Ratio Lower Upper

105 100

120 26.1 21.4 32.2

77 15.3 12.1 18.1



#58

1,1,2,2-Tetrachloroethane

Concen: 2.299 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

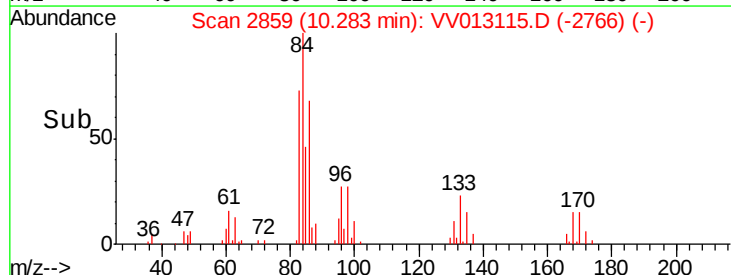
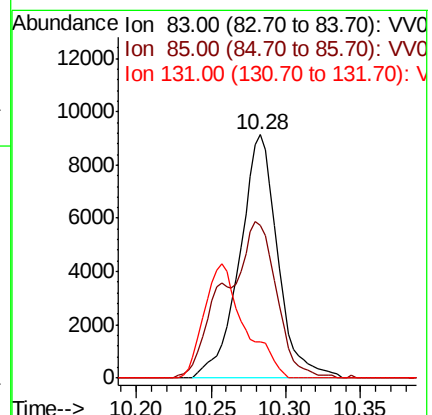
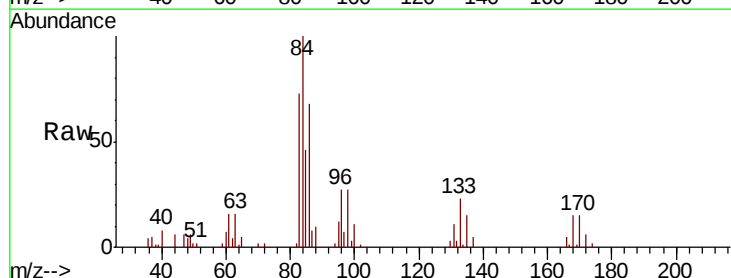
Tgt Ion: 83 Resp: 16153

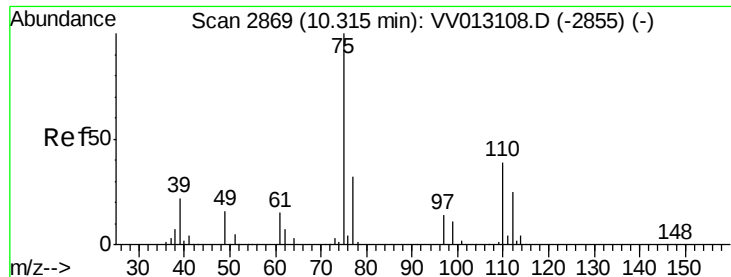
Ion Ratio Lower Upper

83 100

85 63.0 44.3 82.3

131 14.7 8.1 12.1#





#59

1,2,3-Trichloropropane

Concen: 2.129 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :

MSVOA_V

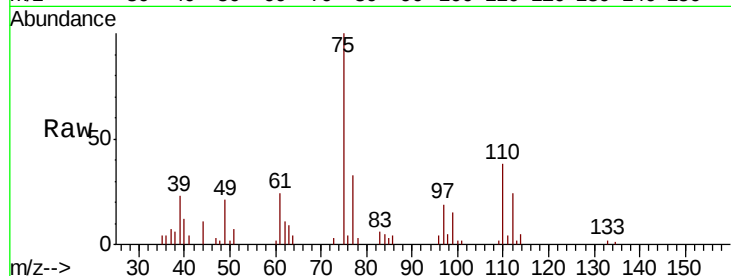
ClientSampleId :

Tot Ion: 75 Resp: 13194

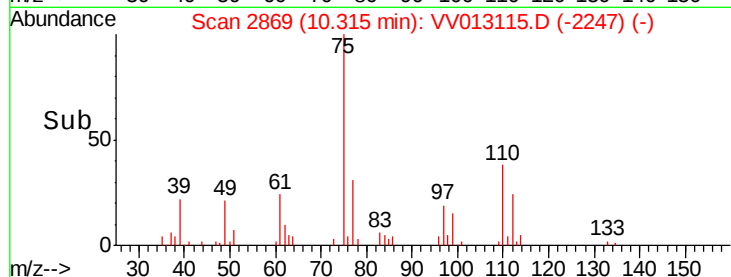
Ion Ratio Lower Upper

75 100

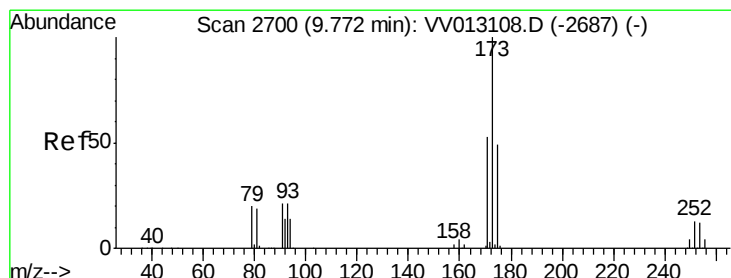
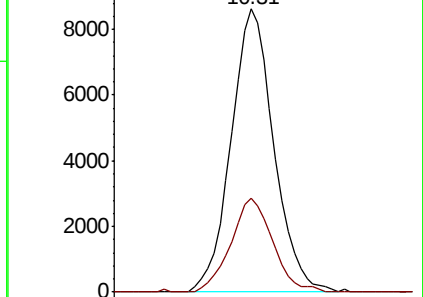
77 32.5 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV013115.D (-2247) (-)



Ion 77.00 (76.70 to 77.70): VV013115.D (-2247) (-)



#61

Bromoform

Concen: 2.165 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

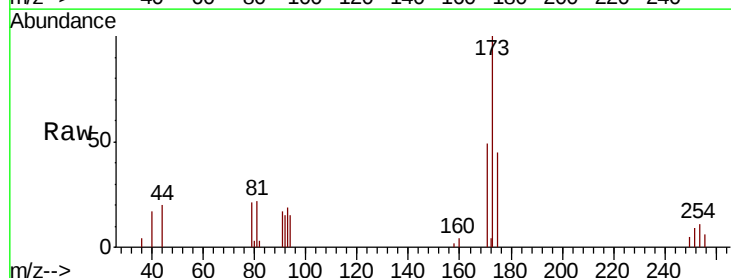
Tgt Ion: 173 Resp: 7344

Ion Ratio Lower Upper

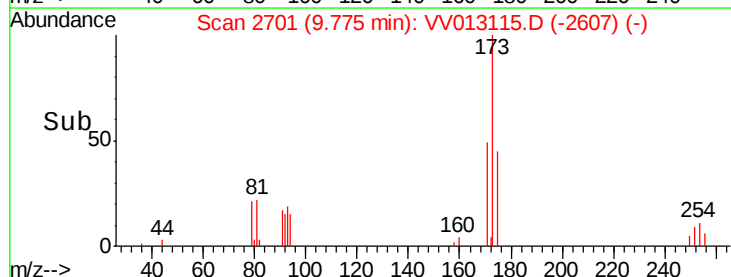
173 100

175 46.5 38.8 58.2

254 6.8 9.6 14.4#

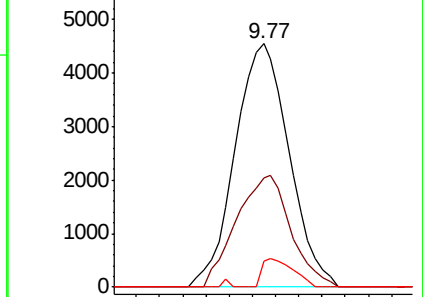


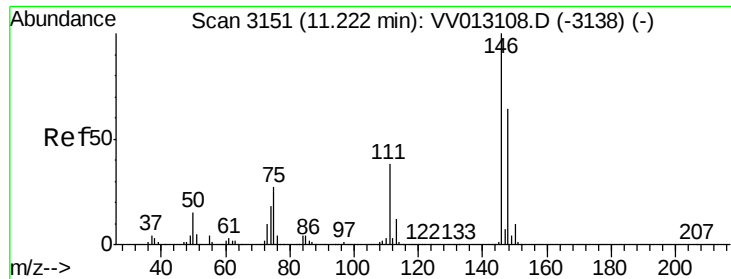
Abundance Ion 173.00 (172.70 to 173.70): VV013115.D (-2607) (-)



Ion 175.00 (174.70 to 175.70): VV013115.D (-2607) (-)

Ion 254.00 (253.70 to 254.70): VV013115.D (-2607) (-)





#62

1,3-Dichlorobenzene

Concen: 2.123 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :

MSVOA_V

ClientSampleId :

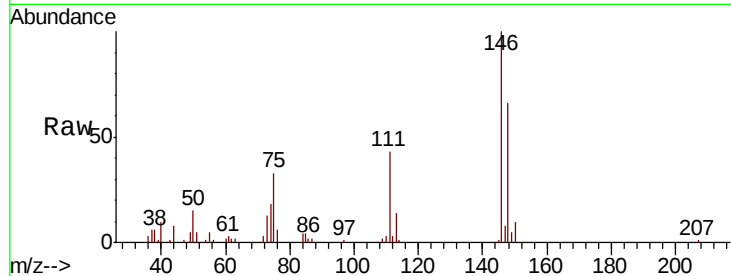
Tot Ion:146 Resp: 18504

Ion Ratio Lower Upper

146 100

111 43.5 26.6 49.4

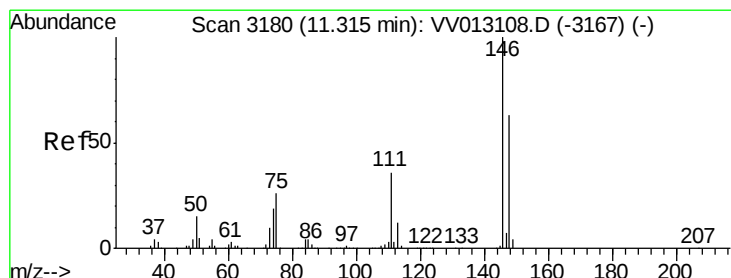
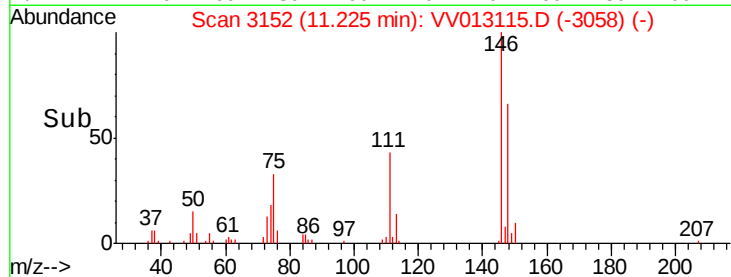
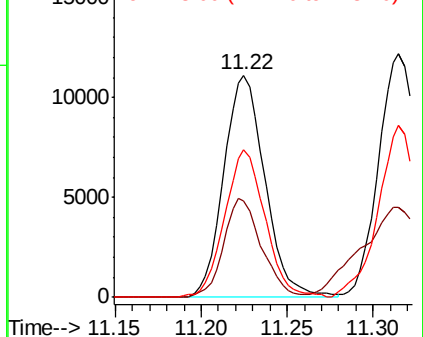
148 66.5 44.6 82.8



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



#63

1,4-Dichlorobenzene

Concen: 2.346 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

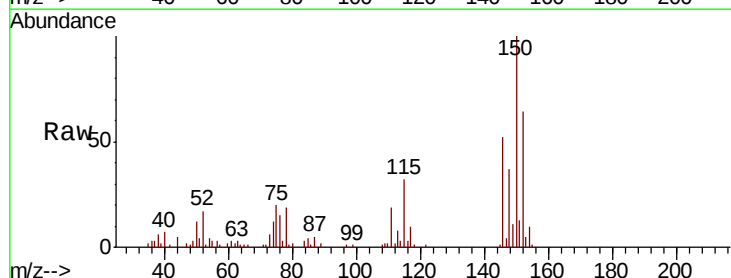
Tgt Ion:146 Resp: 20535

Ion Ratio Lower Upper

146 100

111 36.8 25.4 47.2

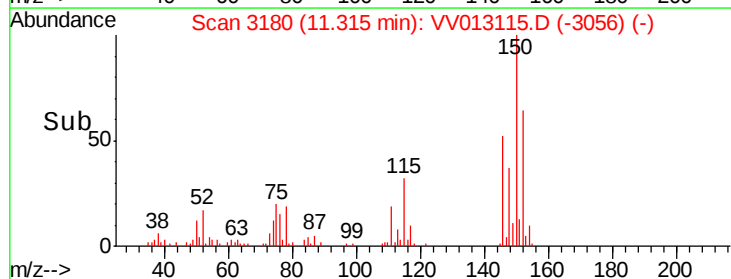
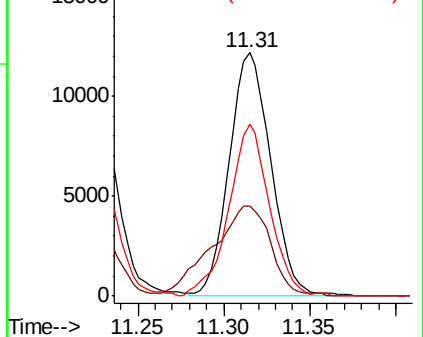
148 70.7 44.2 82.2

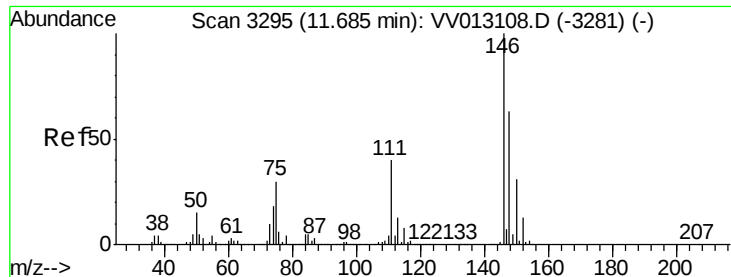


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 2.314 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :

MSVOA_V

ClientSampleId :

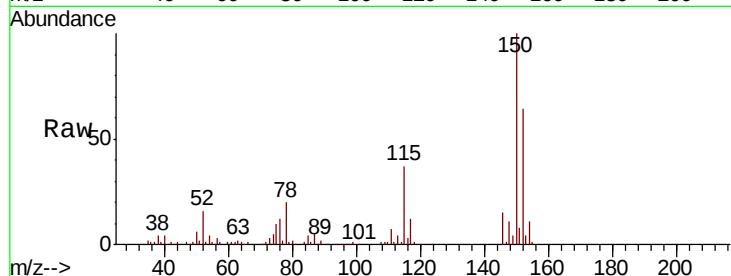
Tot Ion:146 Resp: 20532

Ion Ratio Lower Upper

146 100

111 43.9 32.2 48.2

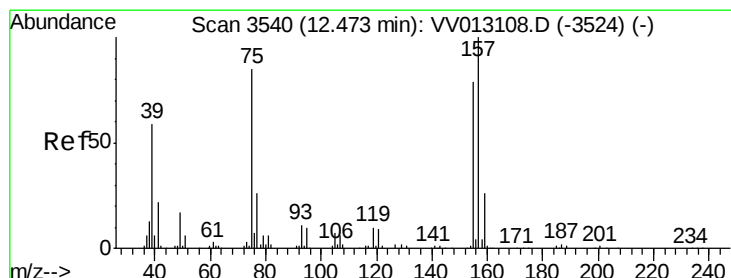
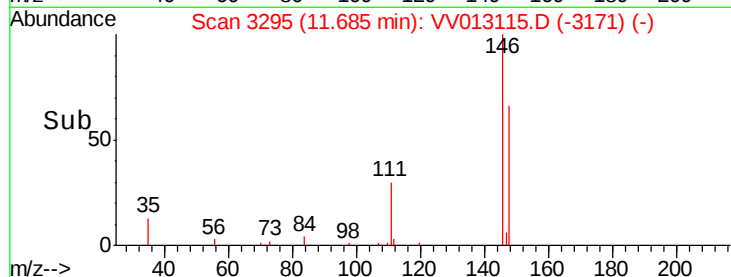
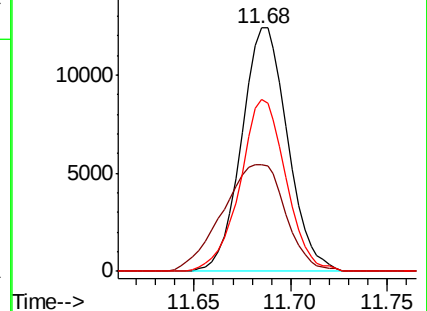
148 70.8 50.6 76.0



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: 2.277 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

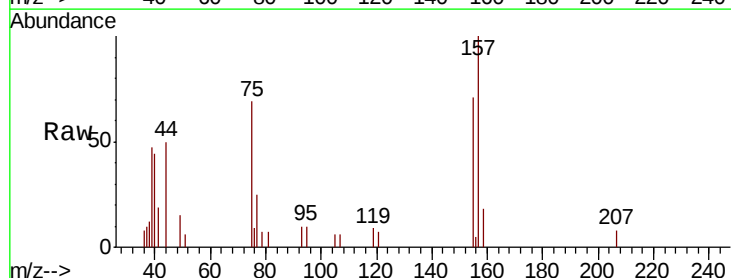
Tgt Ion: 75 Resp: 2938

Ion Ratio Lower Upper

75 100

155 102.3 74.6 111.8

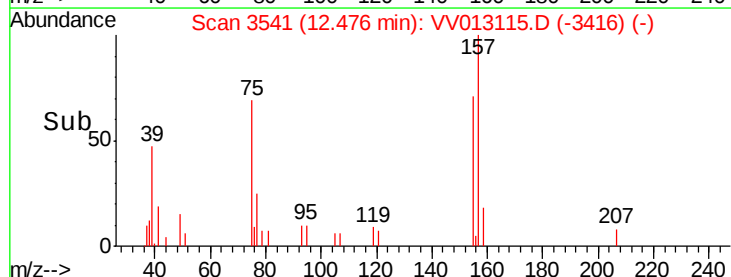
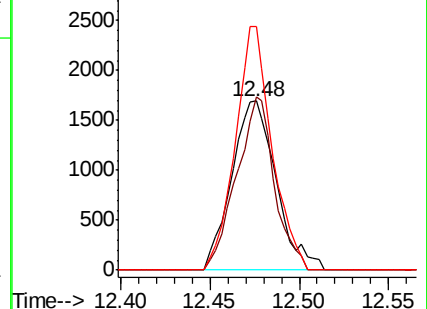
157 144.1 94.2 141.4#

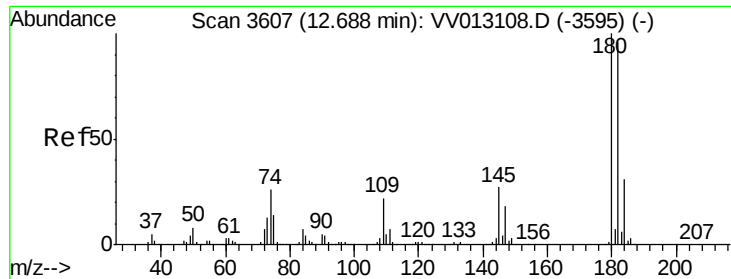


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

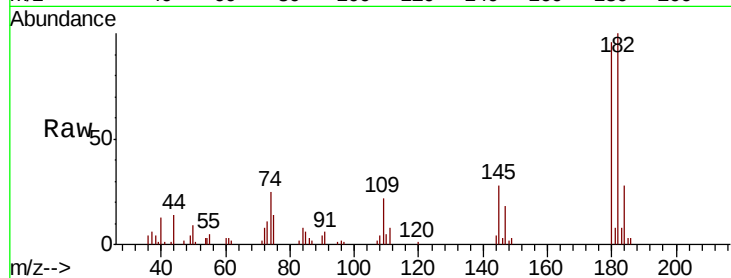




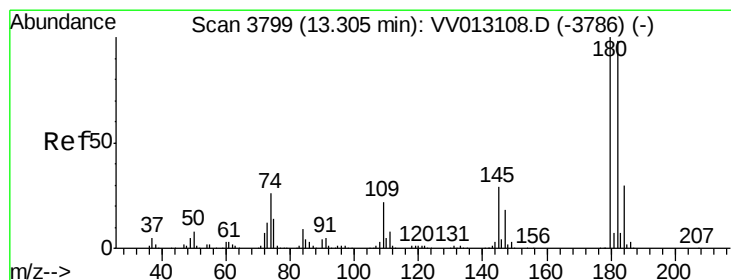
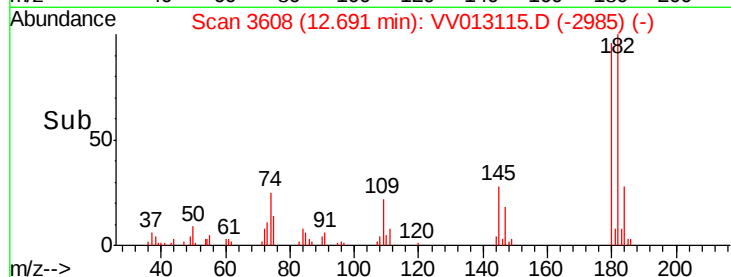
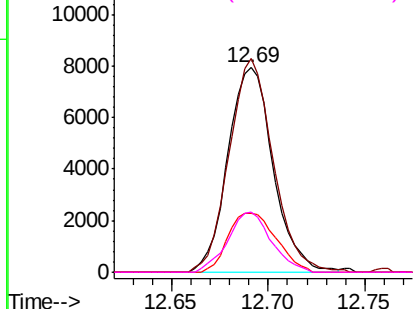
#67
 1,3,5-Trichlorobenzene
 Concen: 2.078 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 12915
 Ion Ratio Lower Upper
 180 100
 182 101.1 76.7 115.1
 184 30.6 24.3 36.5
 145 28.3 21.7 32.5

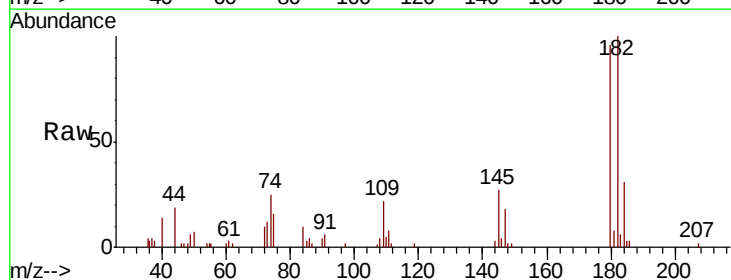


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

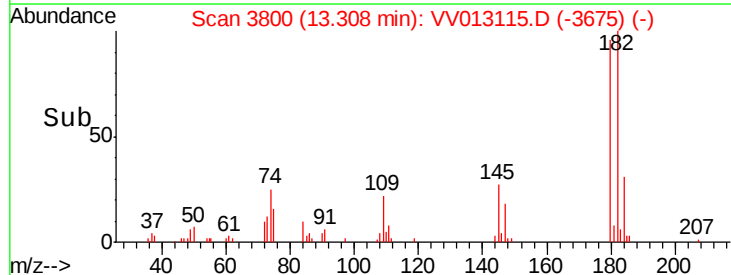
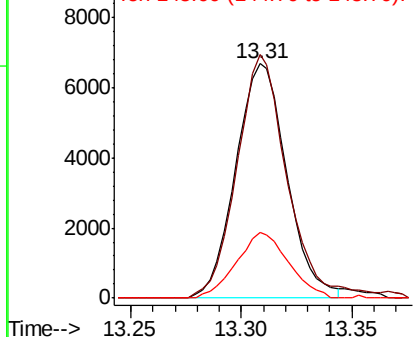


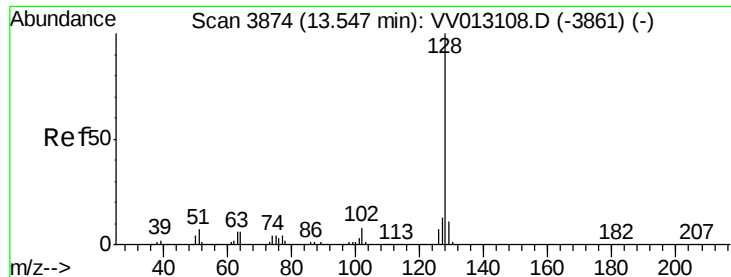
#68
 1,2,4-trichlorobenzene
 Concen: 2.014 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013115.D
 Acq: 11 Oct 2019 21:31

Tgt Ion:180 Resp: 10736
 Ion Ratio Lower Upper
 180 100
 182 102.3 77.4 116.0
 145 28.5 22.7 34.1



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: 1.664 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

Instrument :

MSVOA_V

ClientSampleId :

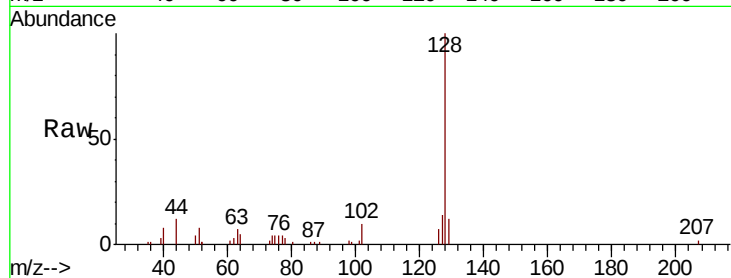
Tot Ion:128 Resp: 24436

Ion Ratio Lower Upper

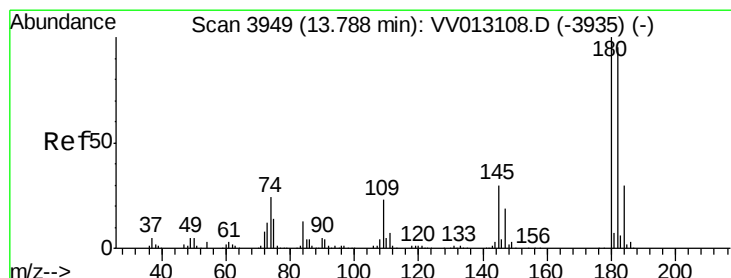
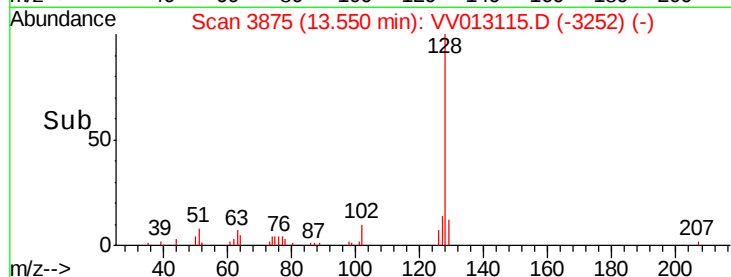
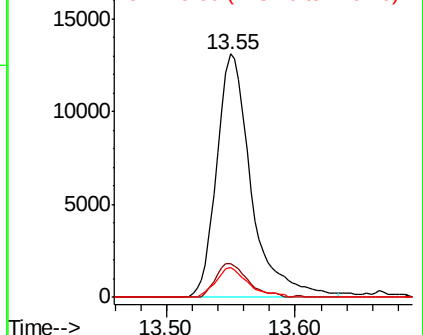
128 100

127 12.8 10.2 15.4

129 11.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 2.006 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV013115.D

Acq: 11 Oct 2019 21:31

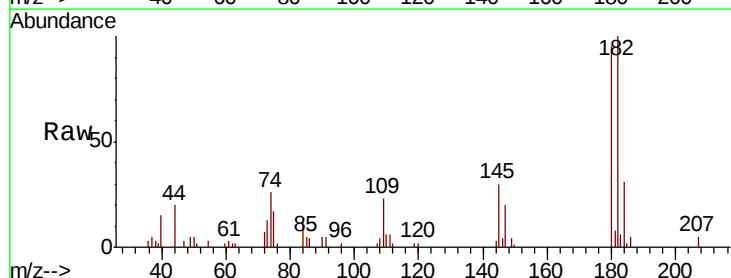
Tgt Ion:180 Resp: 11442

Ion Ratio Lower Upper

180 100

182 97.3 76.9 115.3

145 29.2 23.8 35.8



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

