

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
 Data File : VV012115.D
 Acq On : 06 Aug 2019 15:32
 Operator : SY/MD
 Sample : MDL02
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 06 18:24:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 18:20:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	278710	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	255093	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	127260	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	64651	42.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.88%
7) Chloroethane-d5	1.58	69	48036	44.42	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.84%
11) 1,1-Dichloroethene-d2	2.13	63	95106	36.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.02%
21) 2-Butanone-d5	3.92	46	119769	107.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.89%
24) Chloroform-d	4.40	84	182634	47.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.56%
26) 1,2-Dichloroethane-d4	5.08	65	122296	49.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.60%
32) Benzene-d6	5.10	84	362732	49.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.82%
36) 1,2-Dichloropropane-d6	6.12	67	105385	49.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.12%
41) Toluene-d8	7.36	98	347961	49.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.32%
43) trans-1,3-Dichloropropene-	7.66	79	60619	50.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.28%
47) 2-Hexanone-d5	8.13	63	93006	105.32	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.32%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	149994	50.05	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.10%
66) 1,2-Dichlorobenzene-d4	11.67	152	152345	50.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4676	2.375 ug/L	96
3) Chloromethane	1.25	50	3849	2.754 ug/L	97
5) Vinyl chloride	1.32	62	3260	2.416 ug/L #	50
6) Bromomethane	1.53	94	1903	2.429 ug/L	97
8) Chloroethane	1.60	64	1599	2.263 ug/L	94
9) Trichlorofluoromethane	1.77	101	5093	2.322 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3129	2.910 ug/L	87
12) 1,1-Dichloroethene	2.14	96	3260	3.219 ug/L #	1
13) Acetone	2.19	43	3815	5.041 ug/L	89
14) Carbon disulfide	2.32	76	8421	2.461 ug/L #	95
15) Methyl Acetate	2.46	43	3278	2.475 ug/L	93
16) Methylene chloride	2.54	84	3835	2.496 ug/L	90
17) trans-1,2-Dichloroethene	2.79	96	3464	2.423 ug/L	93
18) Methyl tert-butyl Ether	2.80	73	11594	2.360 ug/L	98
19) 1,1-Dichloroethane	3.23	63	6634	2.544 ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	4095	2.431 ug/L	85
22) 2-Butanone	4.03	43	4867	4.990 ug/L #	58

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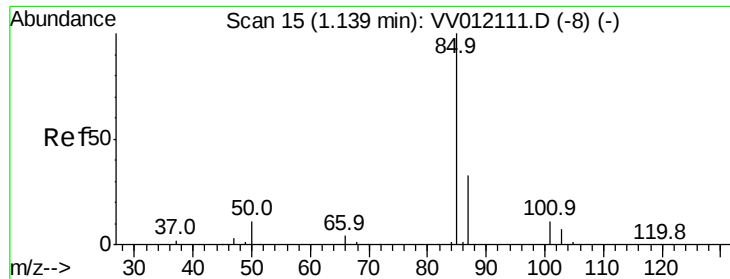
Instrument :
 MSVOA_V
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.31	128	2243	2.422	ug/L #	85
25) Chloroform	4.43	83	8939	3.024	ug/L	97
27) 1,2-Dichloroethane	5.18	62	5761	2.508	ug/L #	88
29) Cyclohexane	4.73	56	5198	2.437	ug/L #	67
30) 1,1,1-Trichloroethane	4.66	97	6892	2.543	ug/L	93
31) Carbon tetrachloride	4.88	117	6052	2.407	ug/L	95
33) Benzene	5.15	78	14817	2.523	ug/L	100
34) Trichloroethene	5.96	95	4323	2.649	ug/L	93
35) Methylcyclohexane	6.18	83	5467	2.250	ug/L	91
37) 1,2-Dichloropropane	6.22	63	3466	2.420	ug/L #	91
38) Bromodichloromethane	6.55	83	5670	2.516	ug/L #	85
39) cis-1,3-Dichloropropene	7.07	75	6427	2.545	ug/L	92
40) 4-Methyl-2-pentanone	7.27	43	8426	4.571	ug/L	97
42) Toluene	7.43	91	16404	2.514	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	5823	2.443	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	3516	2.277	ug/L	96
46) Tetrachloroethene	8.02	164	3825	2.515	ug/L	93
48) 2-Hexanone	8.18	43	7779	5.597	ug/L	91
49) Dibromochloromethane	8.29	129	4785	2.388	ug/L	99
50) 1,2-Dibromoethane	8.40	107	4426	2.592	ug/L #	90
51) Chlorobenzene	8.93	112	11169	2.539	ug/L	93
52) Ethylbenzene	9.05	91	17790	2.430	ug/L	98
53) m,p-Xylene	9.18	106	7007	2.481	ug/L	82
54) o-Xylene	9.59	106	6834	2.439	ug/L	91
55) Styrene	9.60	104	10648	2.255	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.28	83	6526	2.749	ug/L #	96
59) Bromoform	9.77	173	3309	2.217	ug/L #	89
60) Isopropylbenzene	9.97	105	17547	2.519	ug/L	98
61) 1,2,3-Trichloropropane	10.31	75	4618	2.672	ug/L	91
62) 1,3,5-Trimethylbenzene	10.58	105	14080	2.338	ug/L	95
63) 1,2,4-Trimethylbenzene	10.96	105	13949	2.347	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	8703	2.476	ug/L	98
65) 1,4-Dichlorobenzene	11.32	146	9111	2.564	ug/L	94
67) 1,2-Dichlorobenzene	11.69	146	9236	2.575	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.47	75	1453	2.551	ug/L	86
69) 1,3,5-Trichlorobenzene	12.69	180	6745	2.367	ug/L	97
70) 1,2,4-trichlorobenzene	13.31	180	4996	2.022	ug/L	99
71) Naphthalene	13.56	128	10595	1.692	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	4784	1.924	ug/L	91

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



#2

Dichlorodifluoromethane

Concen: 2.375 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

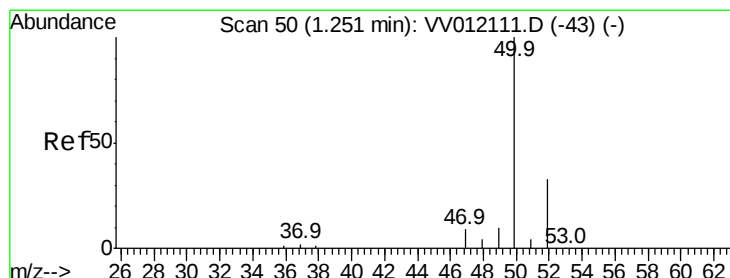
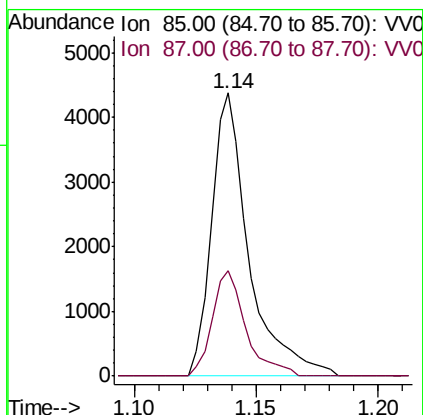
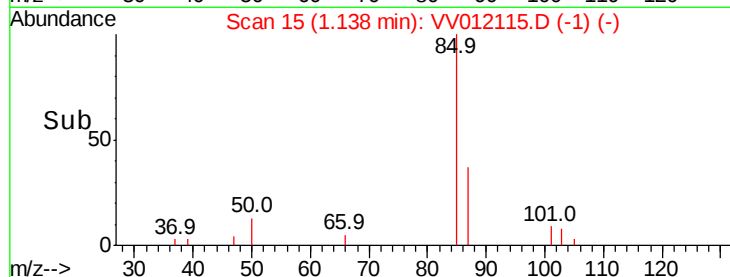
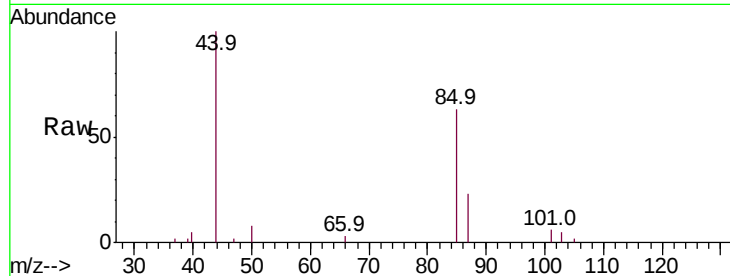
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 4676

Ion Ratio Lower Upper

85 100

87 33.7 25.3 37.9



#3

Chloromethane

Concen: 2.754 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012115.D

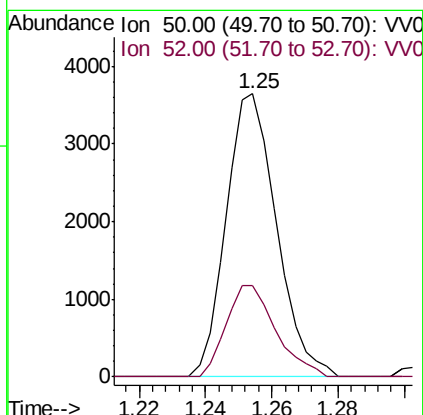
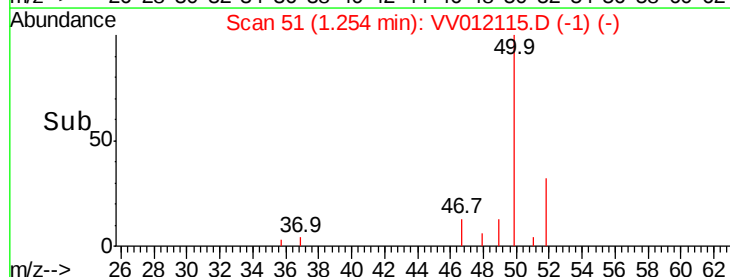
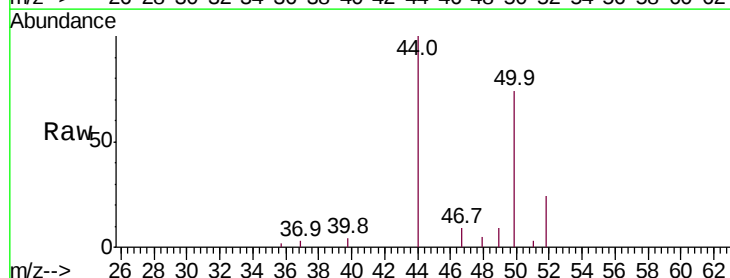
Acq: 06 Aug 2019 15:32

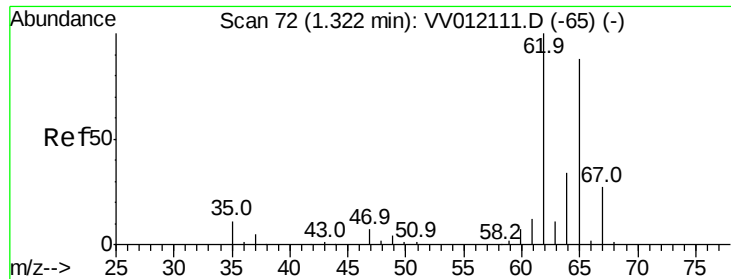
Tgt Ion: 50 Resp: 3849

Ion Ratio Lower Upper

50 100

52 32.1 23.9 44.3





#5

Vinyl chloride

Concen: 2.416 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

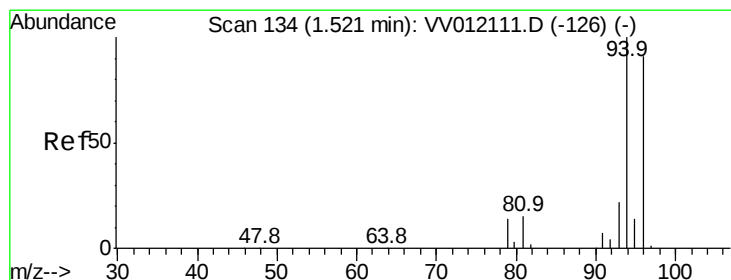
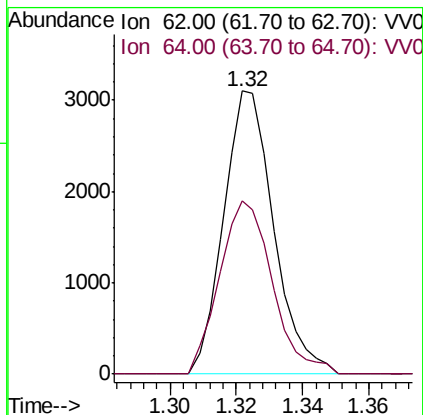
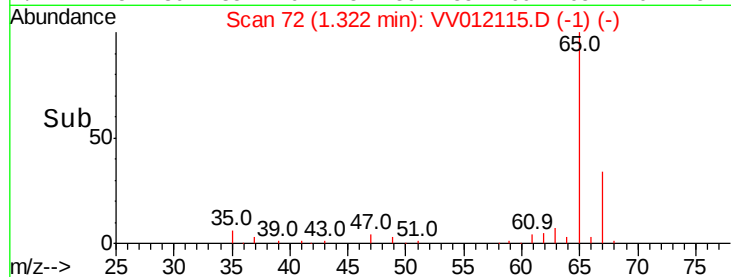
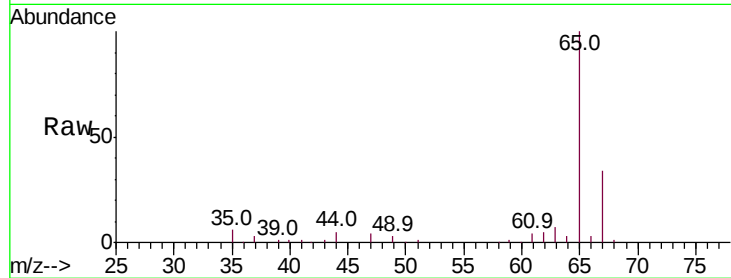
ClientSampleId :

Tot Ion: 62 Resp: 3260

Ion Ratio Lower Upper

62 100

64 61.3 23.0 42.8#



#6

Bromomethane

Concen: 2.429 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.01 min

Lab File: VV012115.D

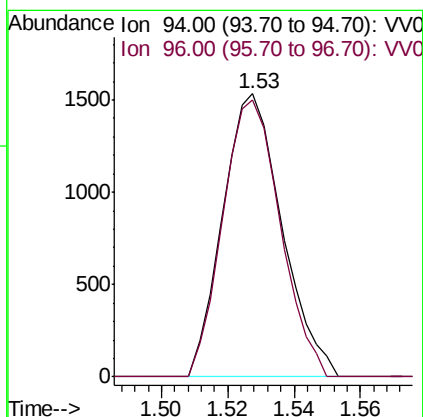
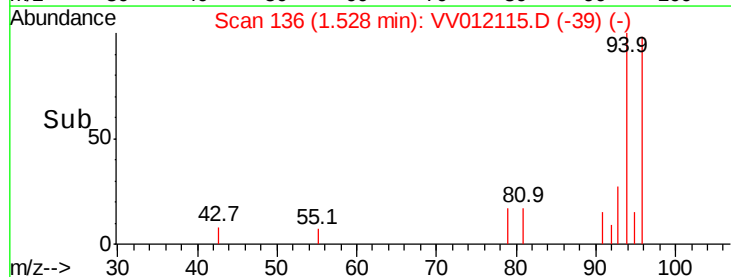
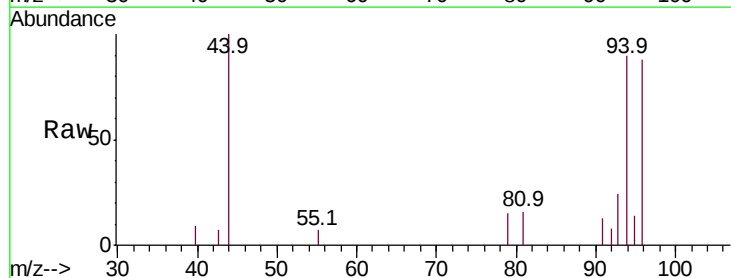
Acq: 06 Aug 2019 15:32

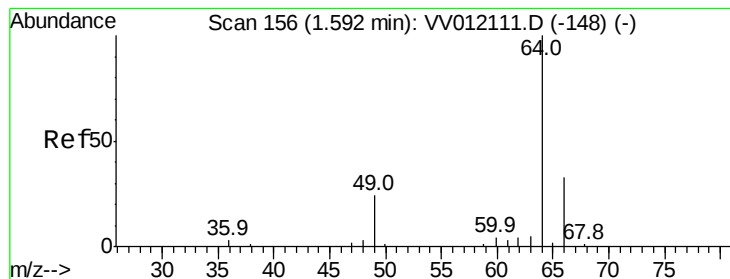
Tgt Ion: 94 Resp: 1903

Ion Ratio Lower Upper

94 100

96 98.0 66.8 124.0





#8

Chloroethane

Concen: 2.263 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.01 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

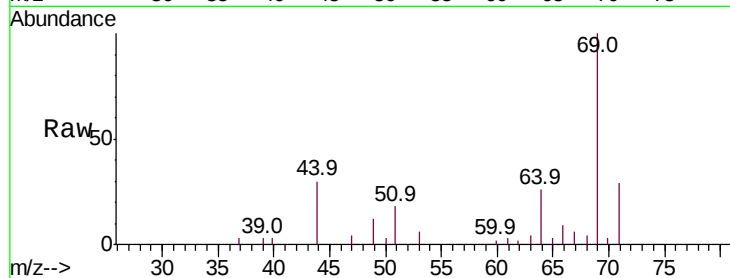
ClientSampled :

Tot Ion: 64 Resp: 1599

Ion Ratio Lower Upper

64 100

66 35.6 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0

1.60

1500

1000

500

0

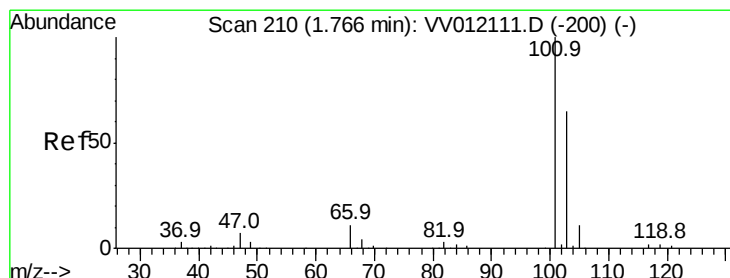
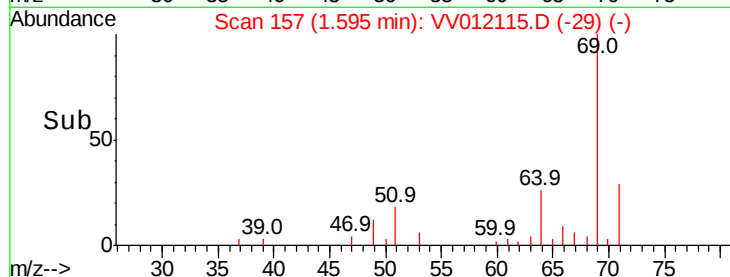
Time-->

1.56

1.58

1.60

1.62



#9

Trichlorofluoromethane

Concen: 2.322 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.01 min

Lab File: VV012115.D

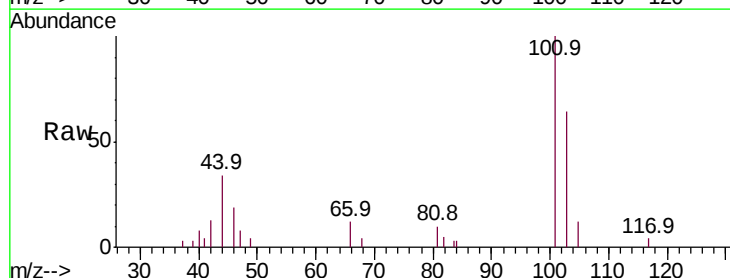
Acq: 06 Aug 2019 15:32

Tgt Ion:101 Resp: 5093

Ion Ratio Lower Upper

101 100

103 63.4 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.77

4000

3000

2000

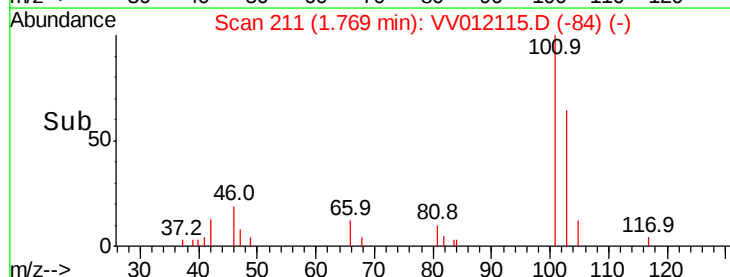
1000

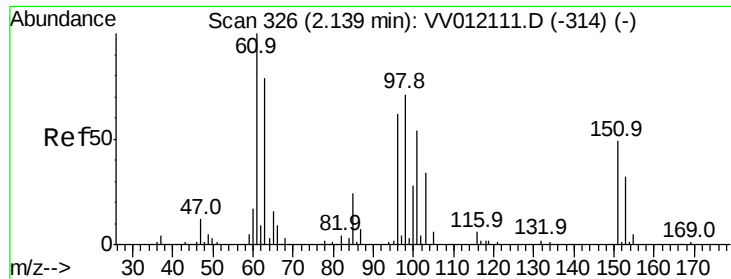
0

Time-->

1.75

1.80





#10

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

Concen: 2.910 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

ClientSampled :

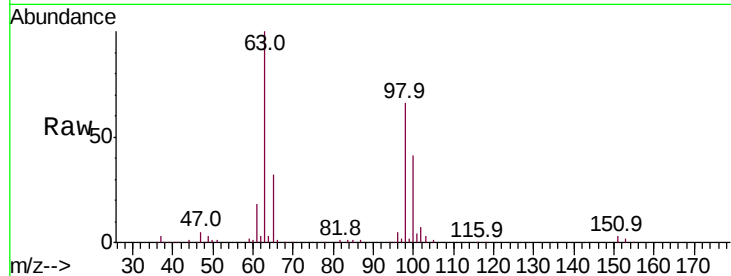
Tot Ion:101 Resp: 3129

Ion Ratio Lower Upper

101 100

85 35.1 34.4 51.6

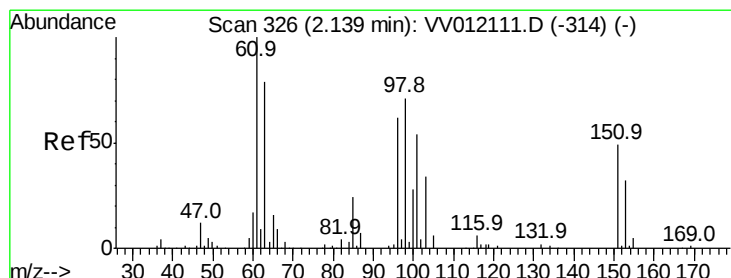
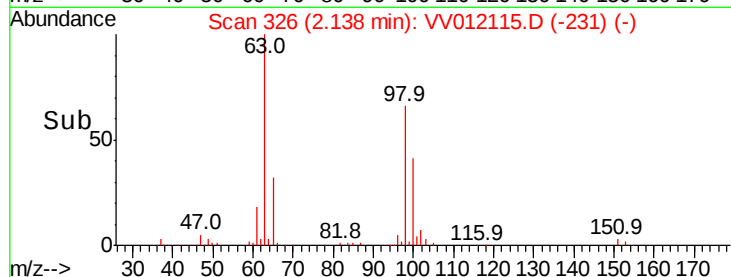
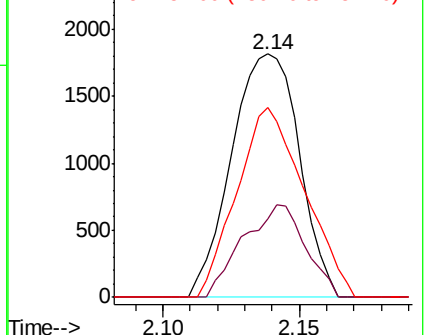
151 77.8 72.2 108.2



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: 3.219 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

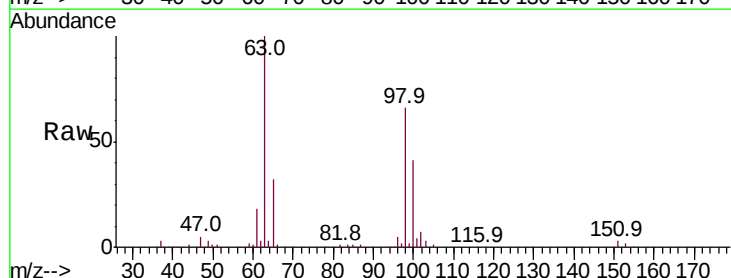
Tgt Ion: 96 Resp: 3260

Ion Ratio Lower Upper

96 100

61 366.5 120.0 223.0#

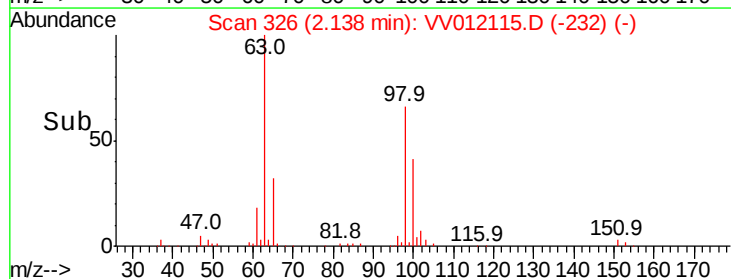
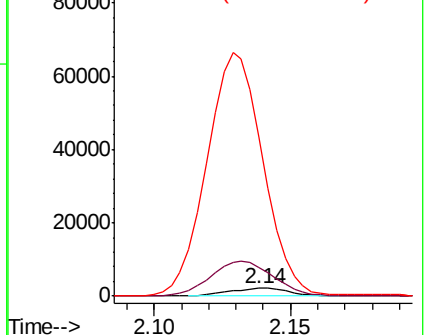
63 2012.1 98.3 182.7#

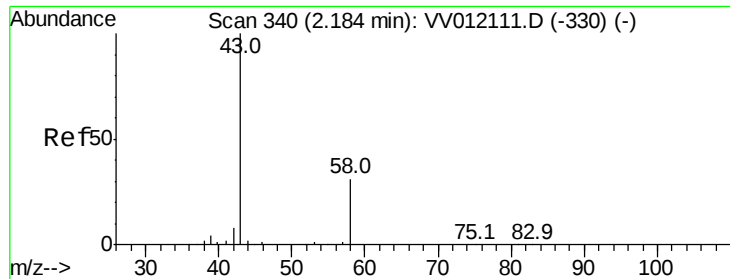


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 5.041 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

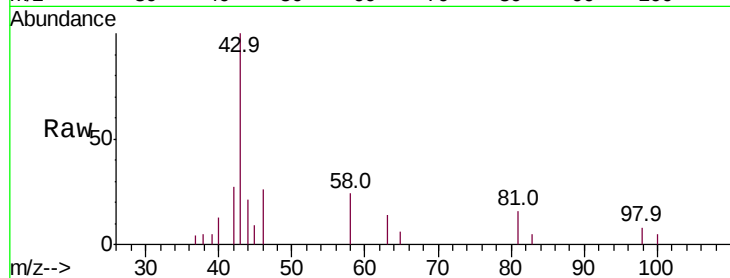
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 3815

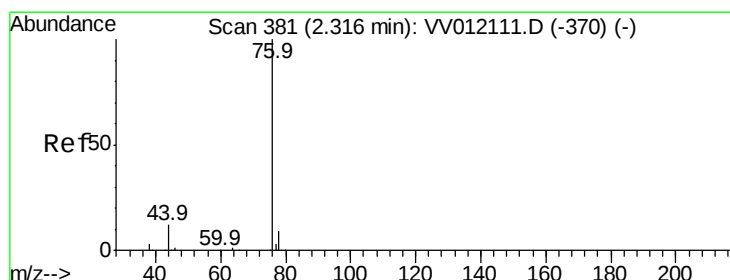
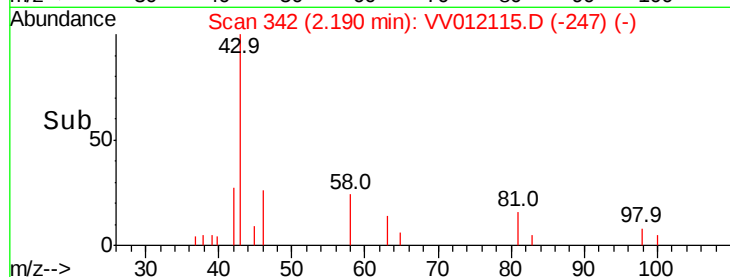
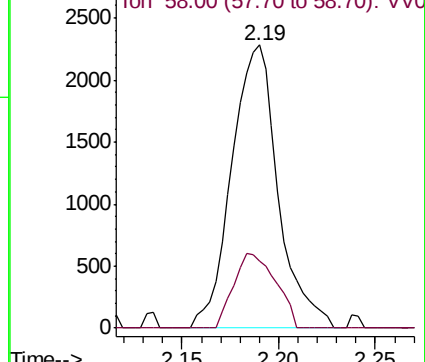
Ion Ratio Lower Upper

43 100

58 23.8 0.0 59.2



Abundance Ion 43.00 (42.70 to 43.70): VV012111.D (-330) (-)



#14

Carbon disulfide

Concen: 2.461 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

Lab File: VV012115.D

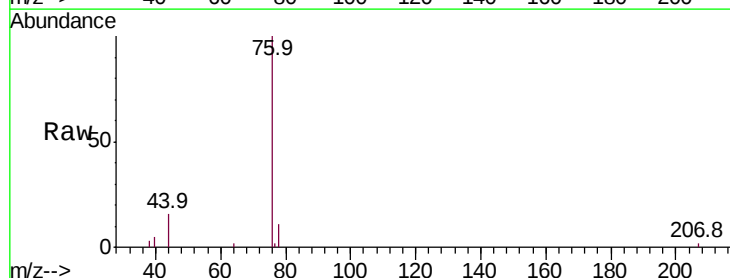
Acq: 06 Aug 2019 15:32

Tgt Ion: 76 Resp: 8421

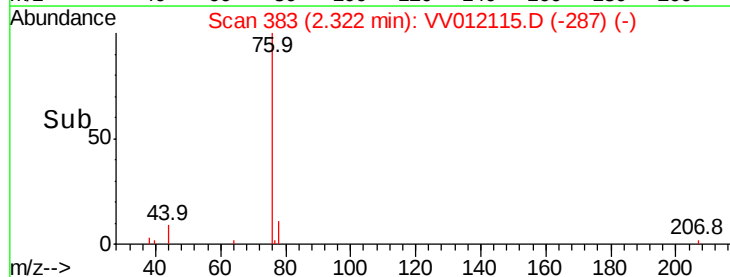
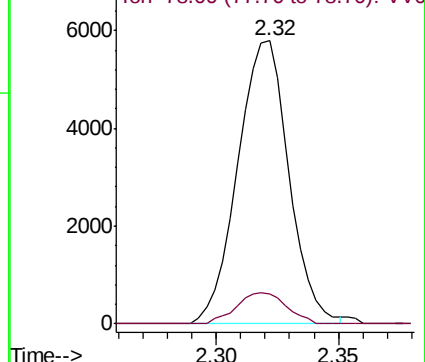
Ion Ratio Lower Upper

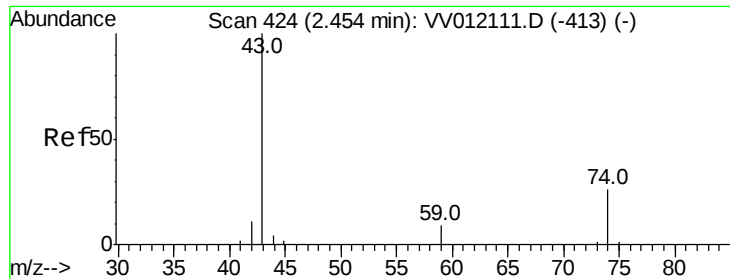
76 100

78 10.8 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VV012111.D (-370) (-)

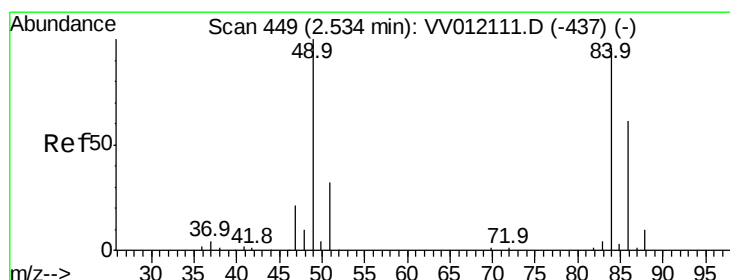
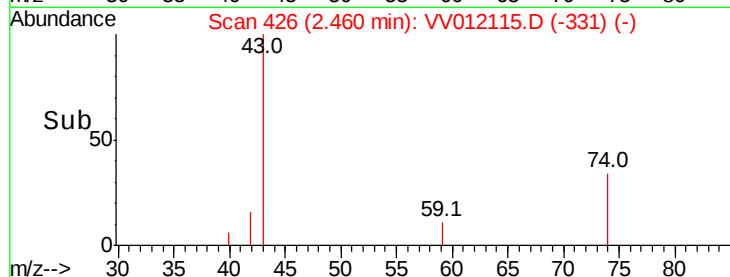
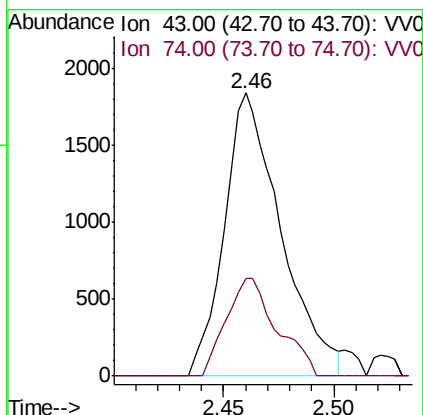
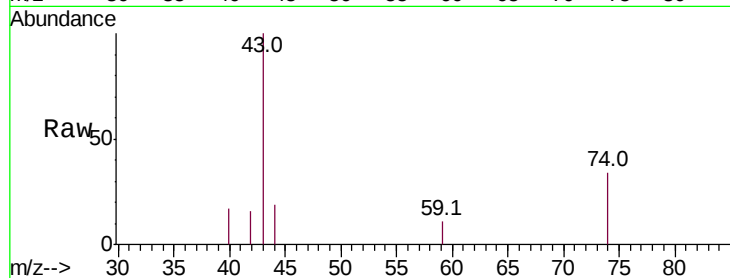




#15
Methvl Acetate
Concen: 2.475 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

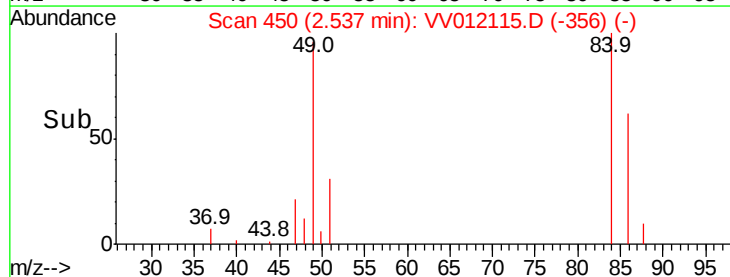
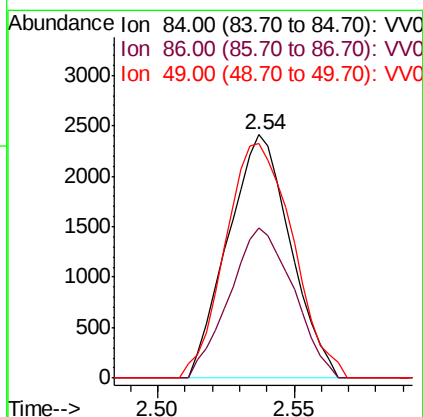
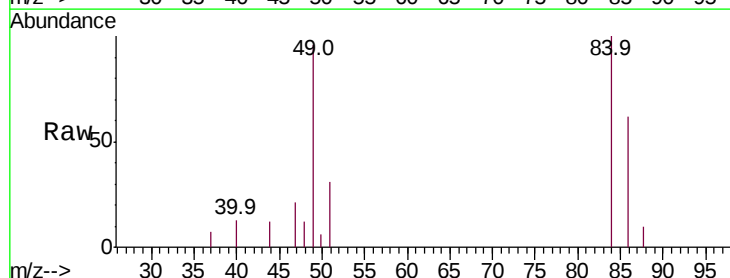
Instrument :
MSVOA_V
ClientSampleId :

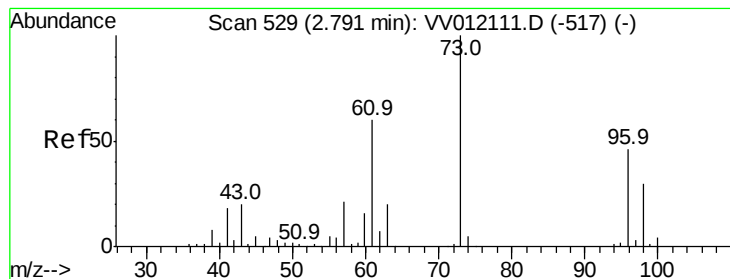
Tot Ion: 43 Resp: 3278
Ion Ratio Lower Upper
43 100
74 30.9 21.8 32.6



#16
Methylene chloride
Concen: 2.496 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Tgt Ion: 84 Resp: 3835
Ion Ratio Lower Upper
84 100
86 61.6 45.7 84.9
49 96.2 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 2.423 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.01 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :
MSVOA_V
ClientSampled :

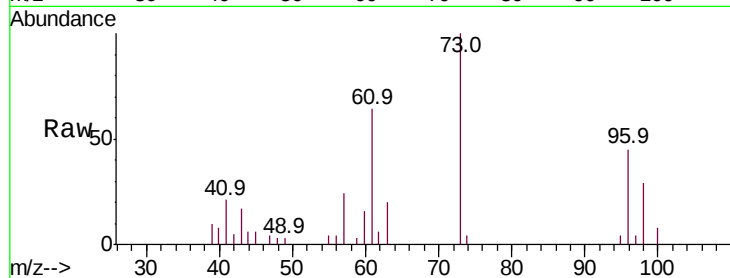
Tot Ion: 96 Resp: 3464

Ion Ratio Lower Upper

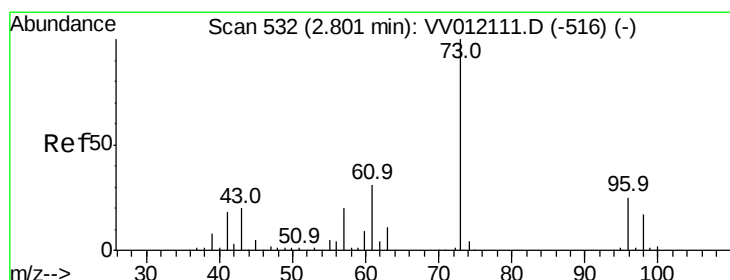
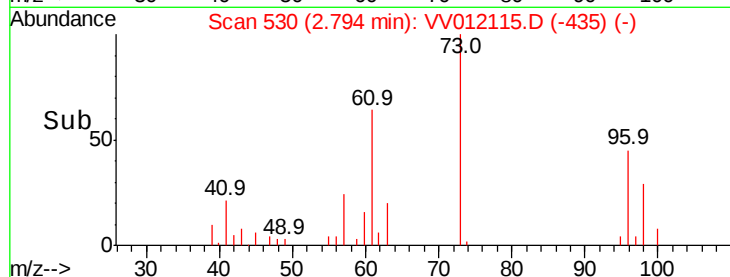
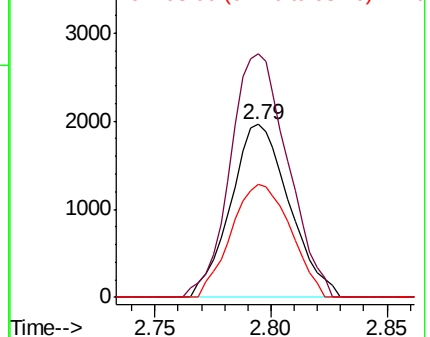
96 100

61 140.8 90.6 168.3

98 65.1 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 2.360 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

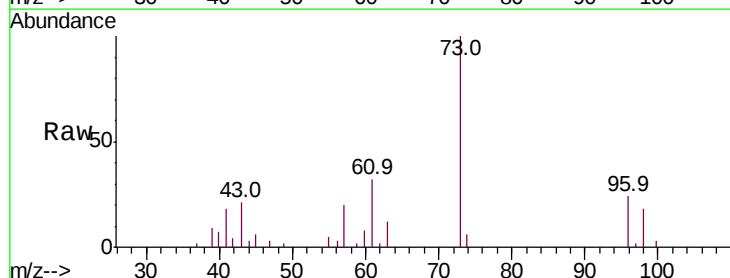
Tgt Ion: 73 Resp: 11594

Ion Ratio Lower Upper

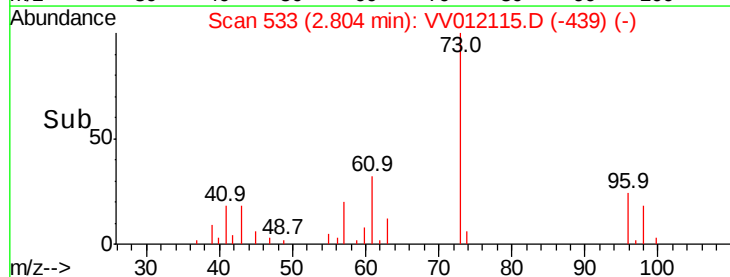
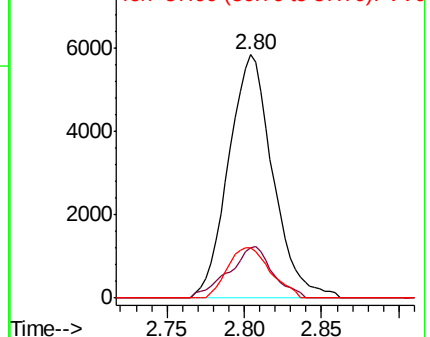
73 100

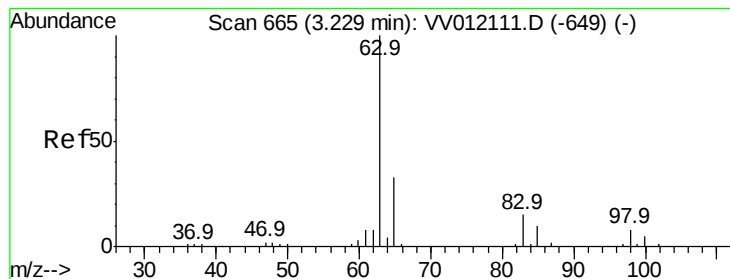
43 21.1 15.6 23.4

57 20.1 16.0 24.0



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 2.544 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

ClientSampleId :

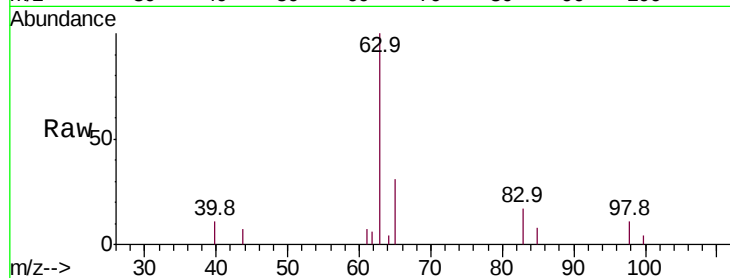
Tot Ion: 63 Resp: 6634

Ion Ratio Lower Upper

63 100

65 31.4 22.3 41.3

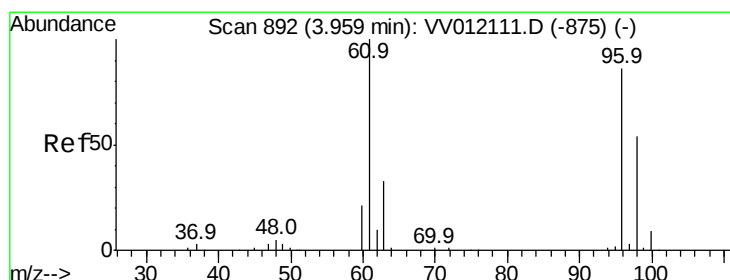
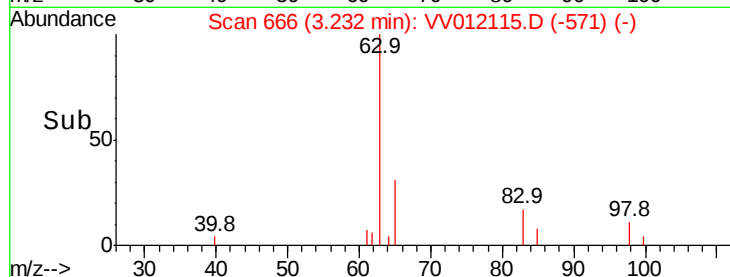
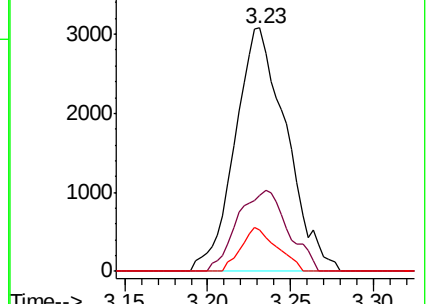
83 17.2 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.431 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

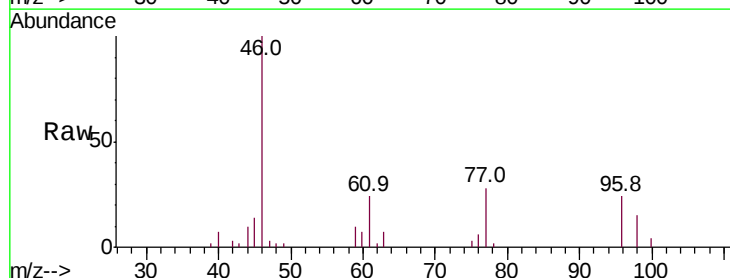
Tgt Ion: 96 Resp: 4095

Ion Ratio Lower Upper

96 100

61 98.3 80.0 148.6

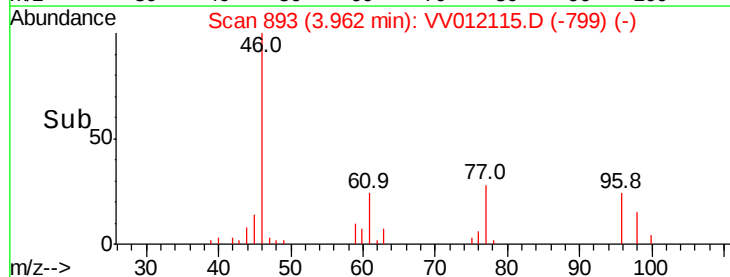
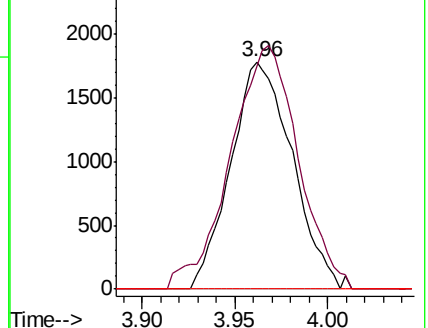
68 0.0 0.0 0.0

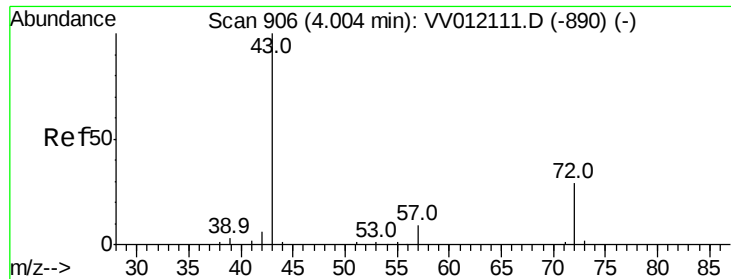


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 4.990 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.02 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

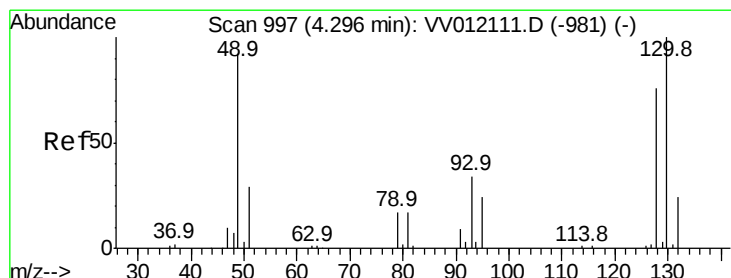
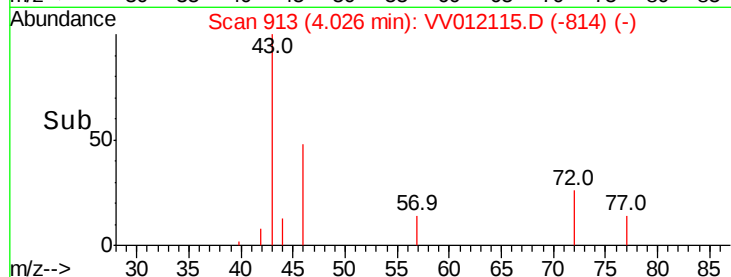
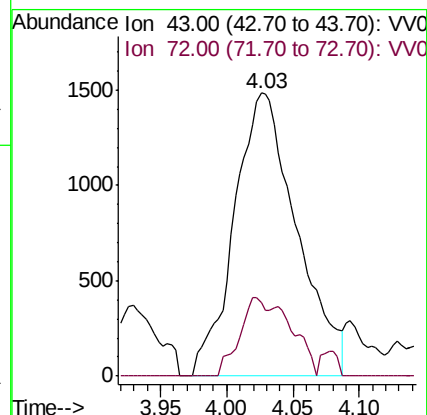
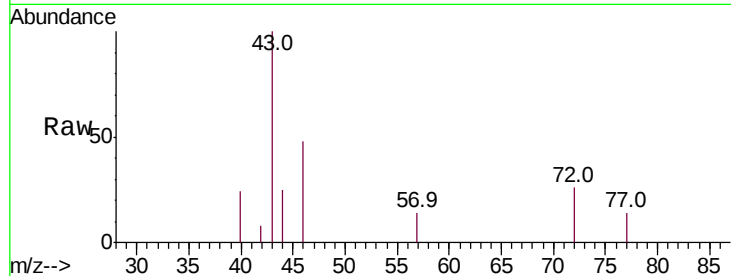
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 4867

Ion Ratio Lower Upper

43 100

72 7.4 15.0 45.0#



#23

Bromochloromethane

Concen: 2.422 ug/L

RT: 4.31 min Scan# 1001

Delta R.T. 0.02 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Tgt Ion: 128 Resp: 2243

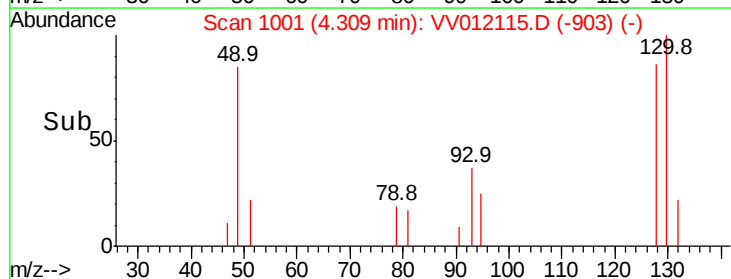
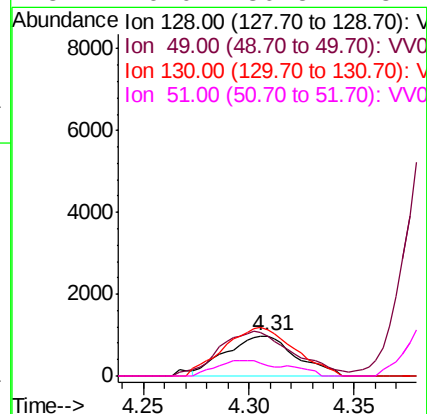
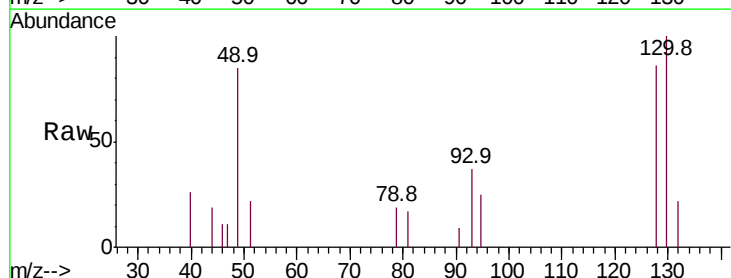
Ion Ratio Lower Upper

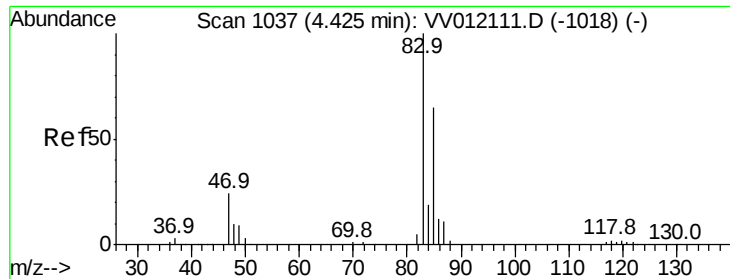
128 100

49 99.0 84.6 157.2

130 116.9 89.9 167.0

51 26.0 30.5 45.7#

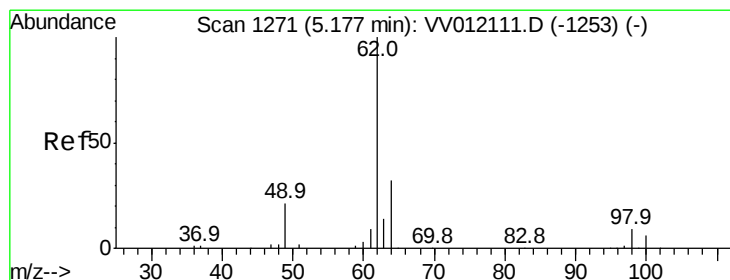
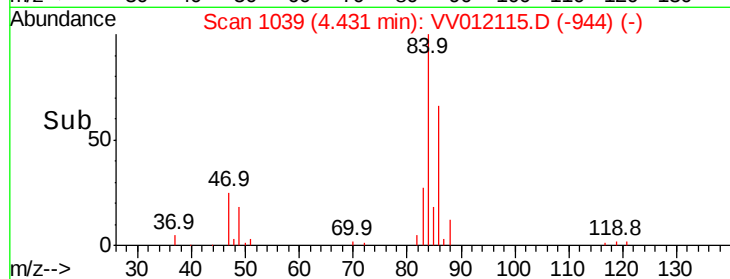
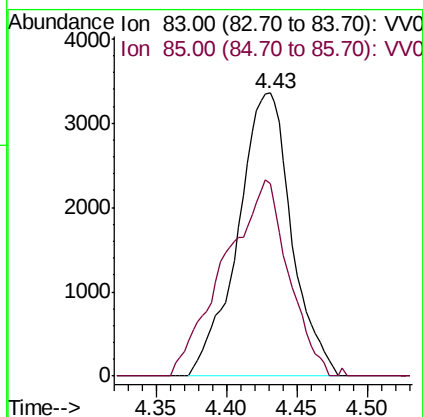
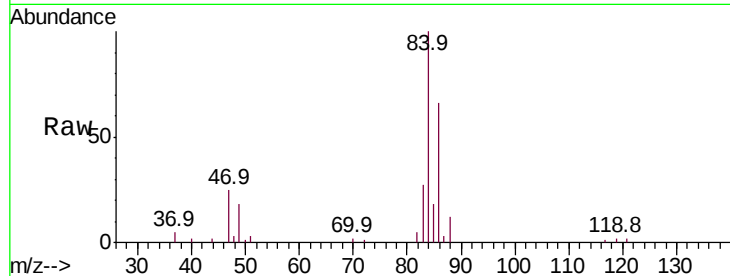




#25
Chloroform
Concen: 3.024 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.01 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

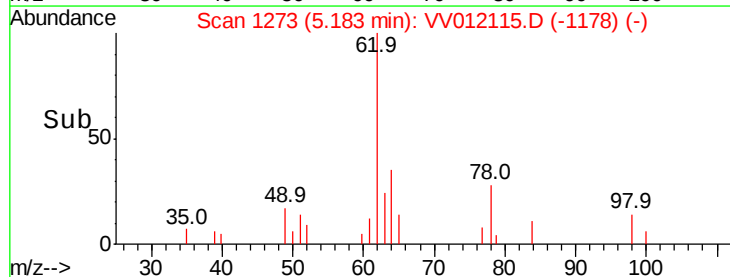
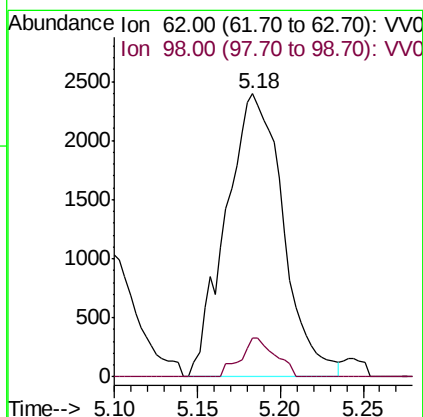
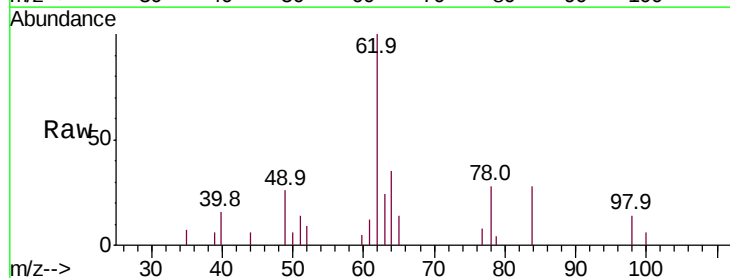
Instrument :
MSVOA_V
ClientSampleId :

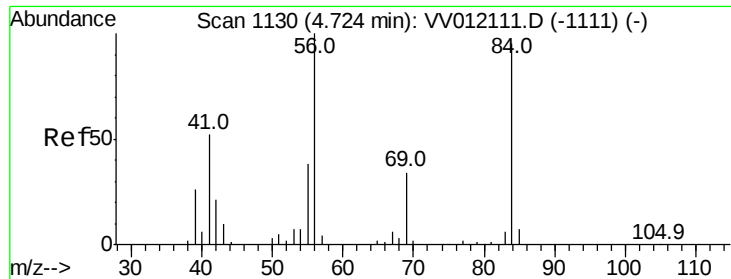
Tot Ion: 83 Resp: 8939
Ion Ratio Lower Upper
83 100
85 68.1 45.8 85.2



#27
1,2-Dichloroethane
Concen: 2.508 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Tgt Ion: 62 Resp: 5761
Ion Ratio Lower Upper
62 100
98 13.7 7.5 11.3#

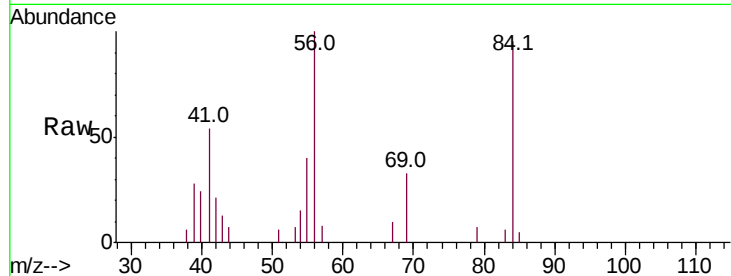




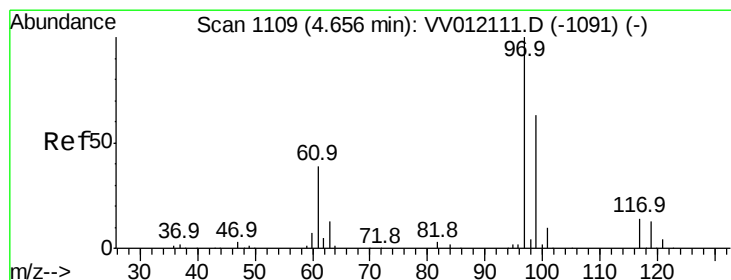
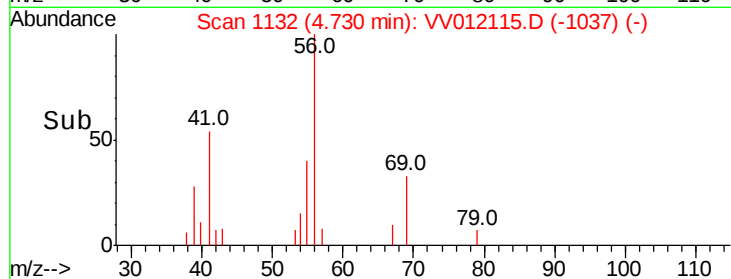
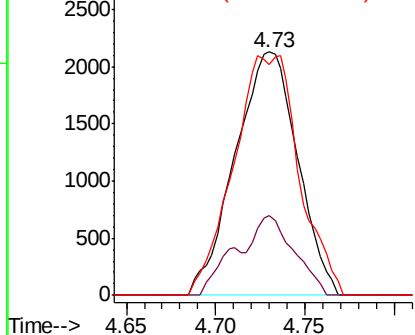
#29
Cvclohexane
Concen: 2.437 ug/L
RT: 4.73 min Scan# 1132
Delta R.T. 0.01 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 56 Resp: 5198
Ion Ratio Lower Upper
56 100
69 20.9 25.8 38.8#
84 58.9 76.0 114.0#

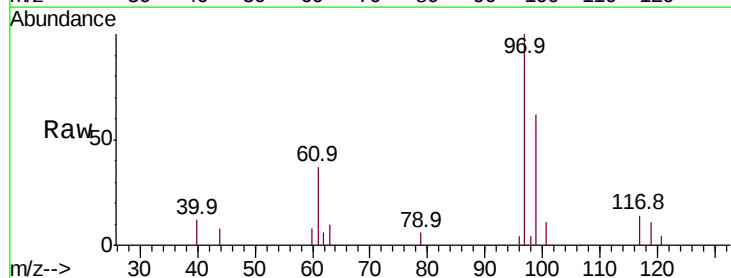


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

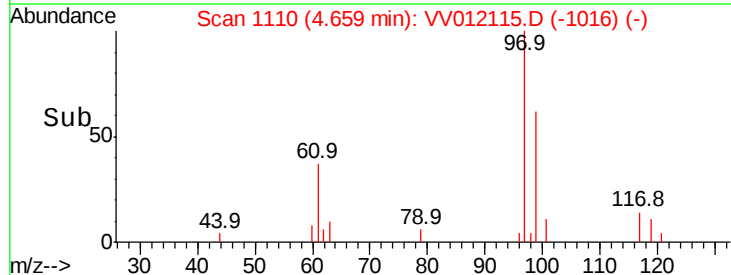
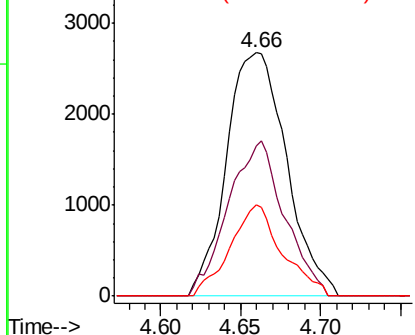


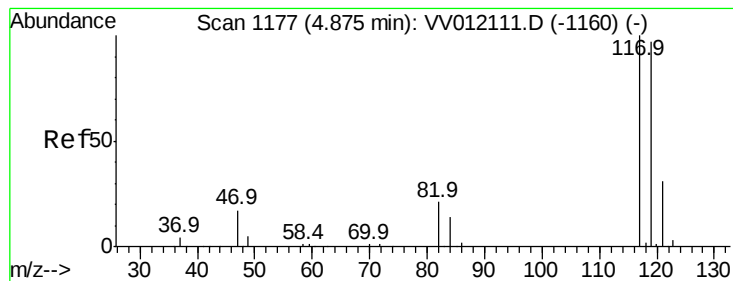
#30
1,1,1-Trichloroethane
Concen: 2.543 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Tgt Ion: 97 Resp: 6892
Ion Ratio Lower Upper
97 100
99 59.7 51.1 76.7
61 32.5 31.3 46.9



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: 2.407 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

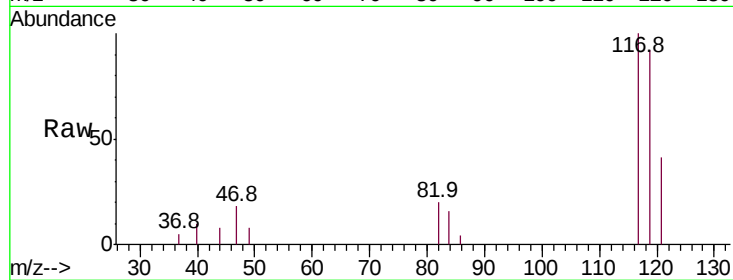
ClientSampleId :

Tot Ion:117 Resp: 6052

Ion Ratio Lower Upper

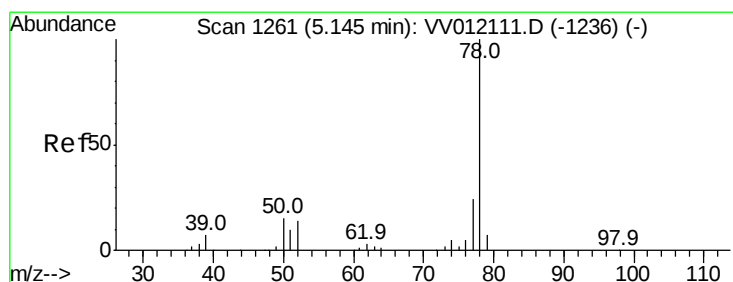
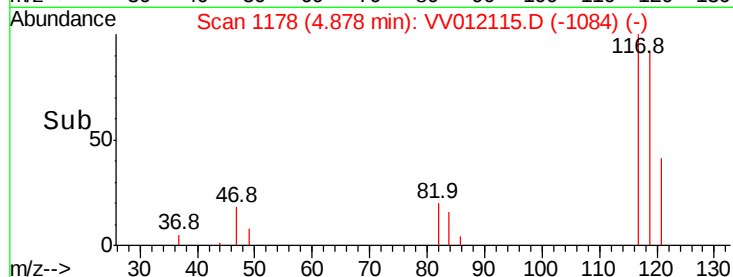
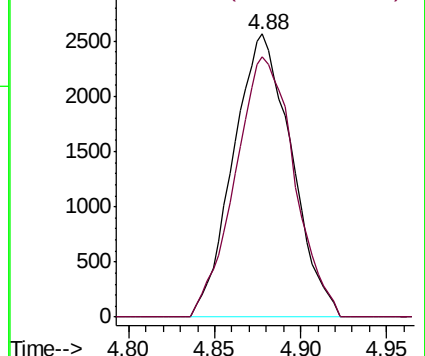
117 100

119 93.2 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.523 ug/L

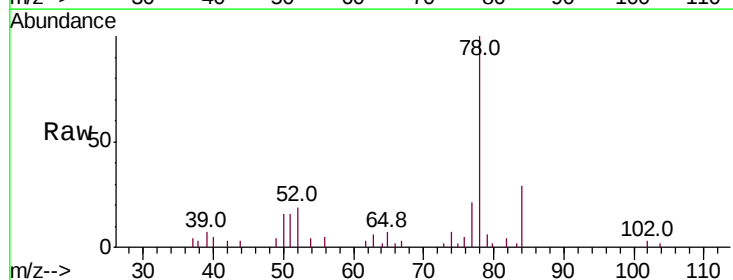
RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

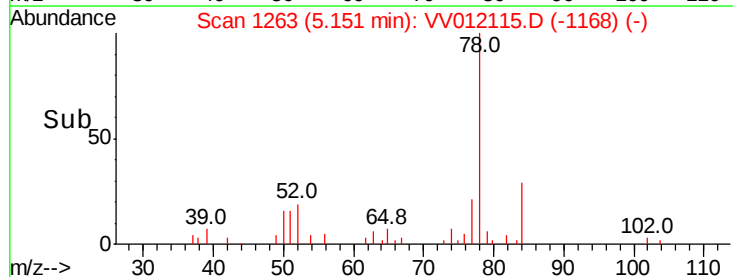
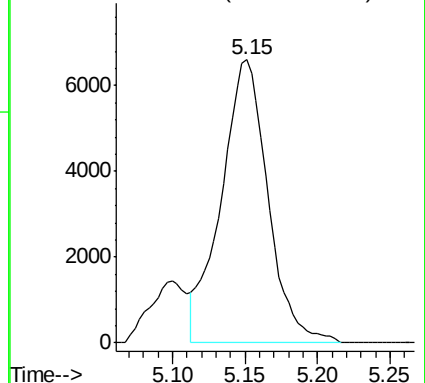
Lab File: VV012115.D

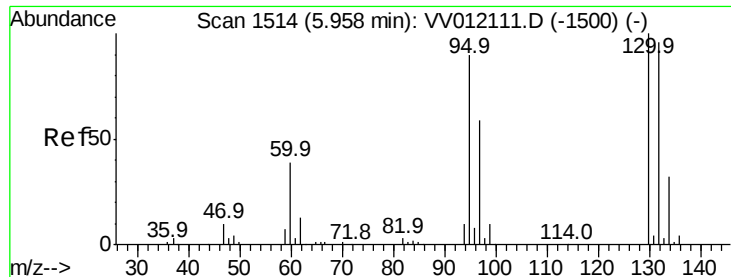
Acq: 06 Aug 2019 15:32

Tgt Ion: 78 Resp: 14817



Abundance Ion 78.00 (77.70 to 78.70): VV0



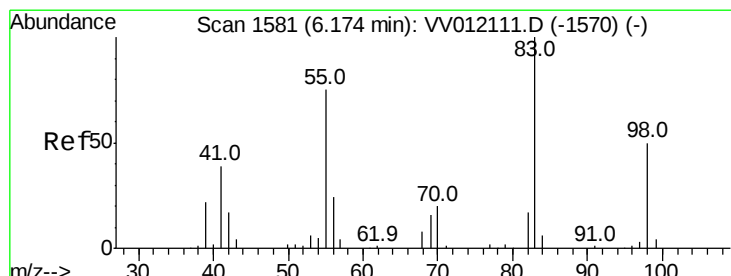
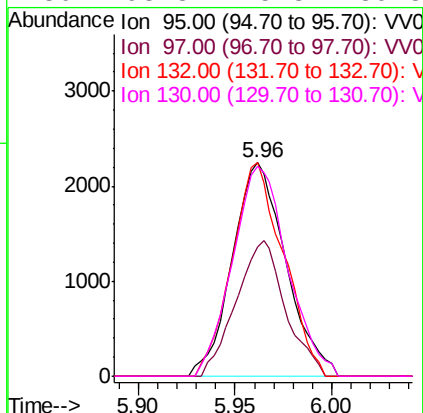
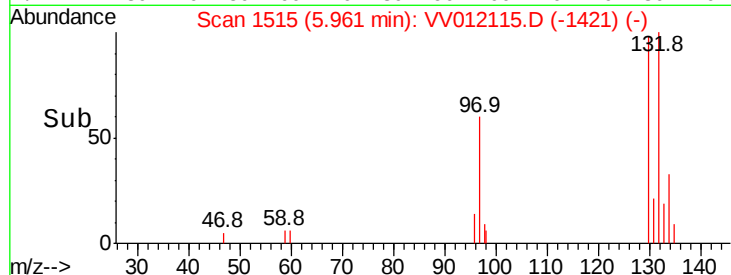
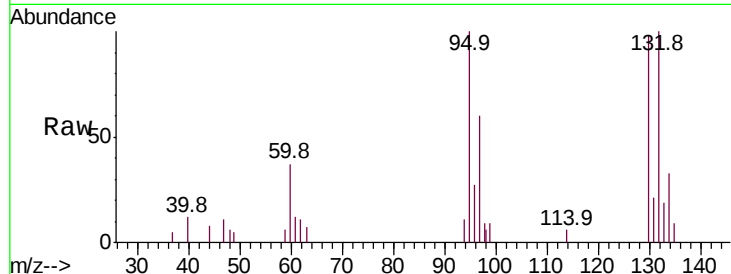


#34
 Trichloroethene
 Concen: 2.649 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 4323

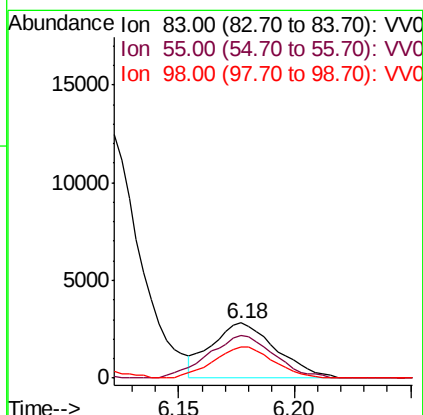
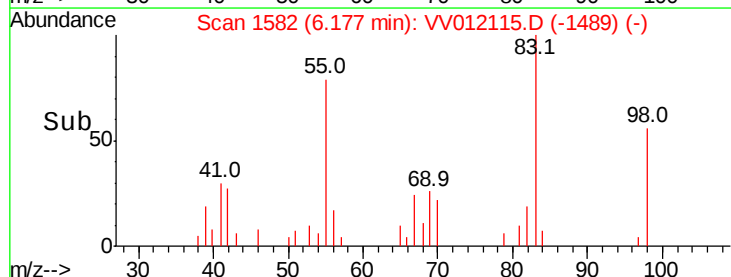
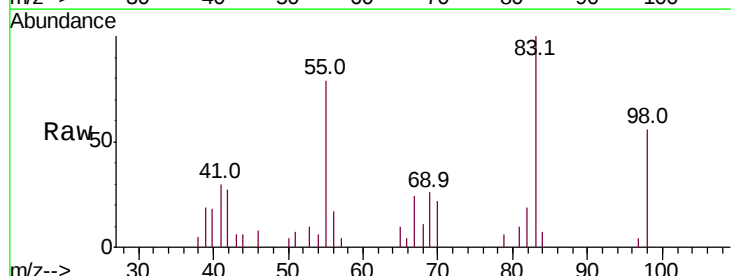
Ion	Ratio	Lower	Upper
95	100		
97	69.8	43.4	80.6
132	99.9	73.1	135.8
130	98.3	75.3	139.8

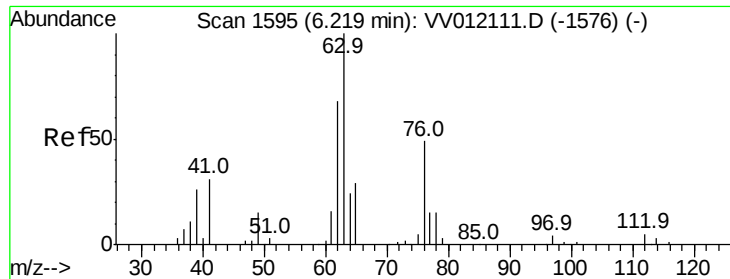


#35
 Methylcyclohexane
 Concen: 2.250 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Tgt Ion: 83 Resp: 5467

Ion	Ratio	Lower	Upper
83	100		
55	77.9	55.5	83.3
98	52.1	38.5	57.7





#37

1,2-Dichloropropane

Concen: 2.420 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

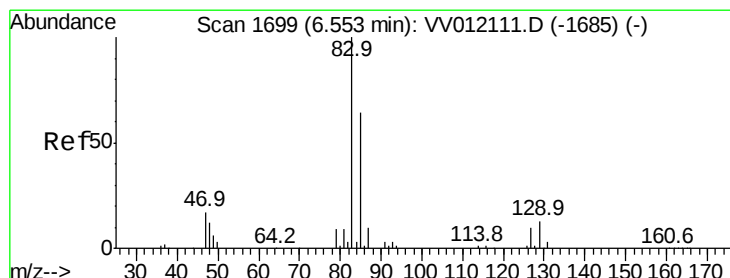
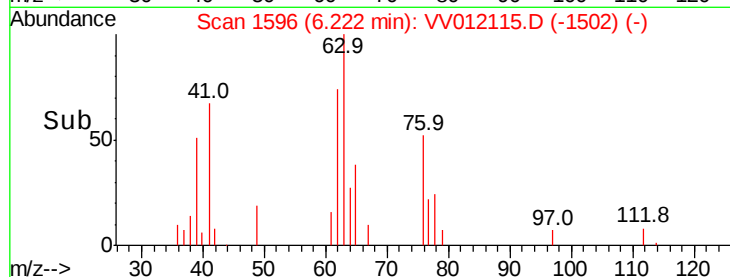
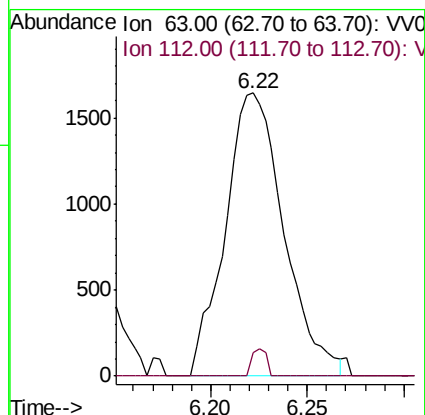
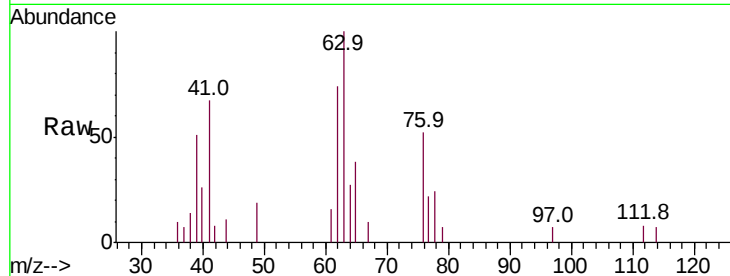
ClientSampled :

Tot Ion: 63 Resp: 3466

Ion Ratio Lower Upper

63 100

112 2.4 4.2 6.2#



#38

Bromodichloromethane

Concen: 2.516 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

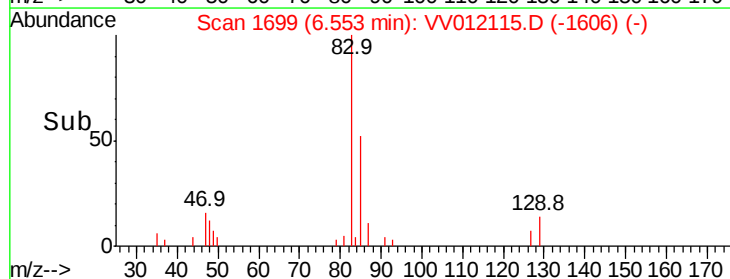
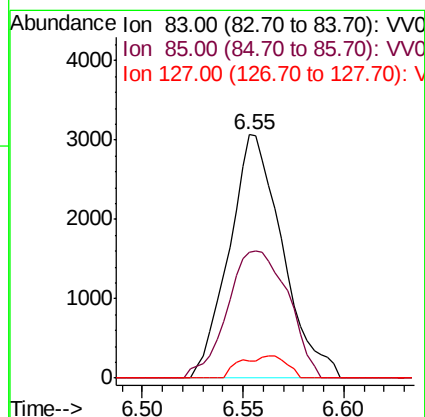
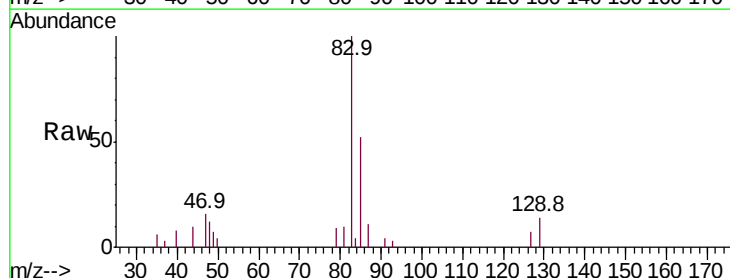
Tgt Ion: 83 Resp: 5670

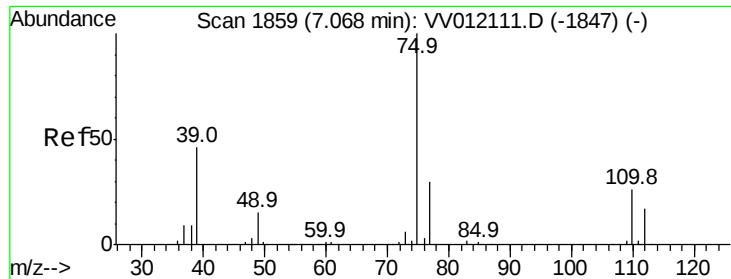
Ion Ratio Lower Upper

83 100

85 51.9 45.0 83.6

127 6.9 7.9 11.9#

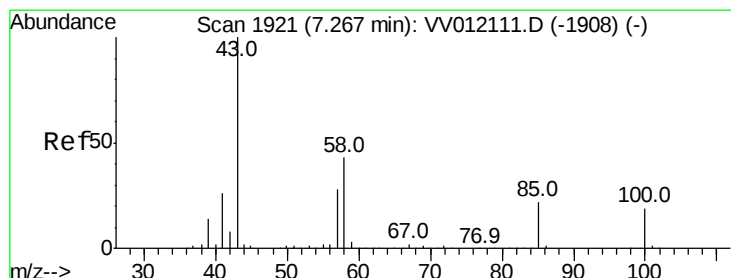
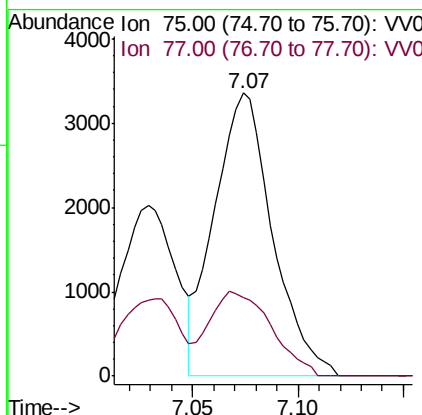
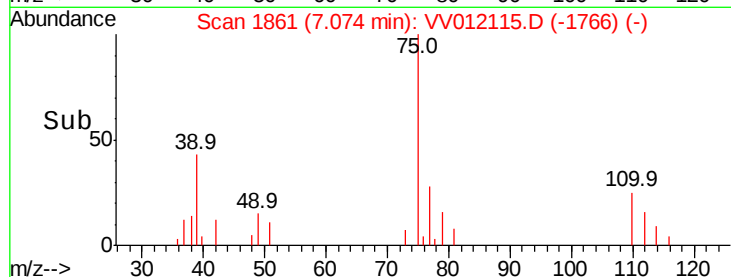
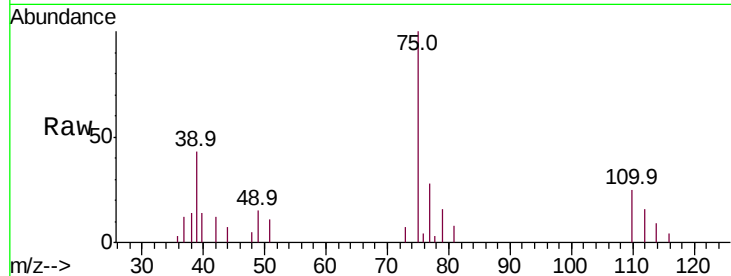




#39
 cis-1,3-Dichloropropene
 Concen: 2.545 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.01 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

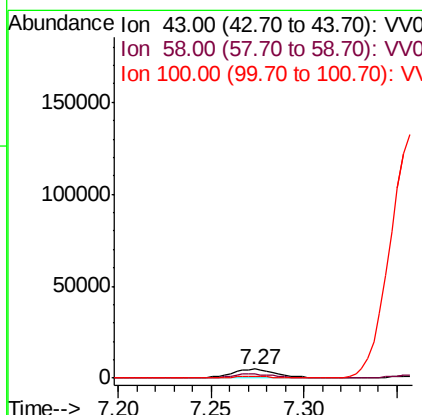
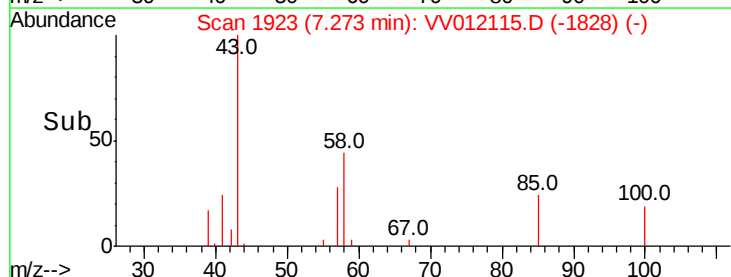
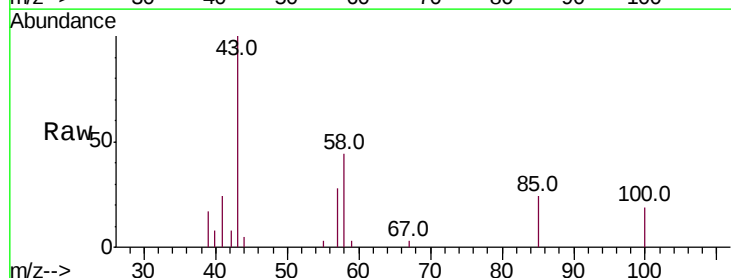
Instrument :
 MSVOA_V
 ClientSampled :

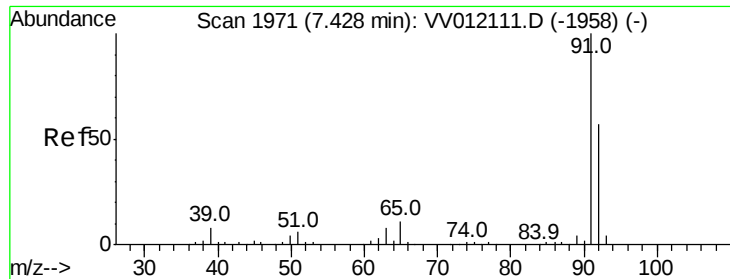
Tot Ion: 75 Resp: 6427
 Ion Ratio Lower Upper
 75 100
 77 27.7 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 4.571 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Tgt Ion: 43 Resp: 8426
 Ion Ratio Lower Upper
 43 100
 58 44.0 33.4 50.2
 100 17.3 15.0 22.4





#42

Toluene

Concen: 2.514 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

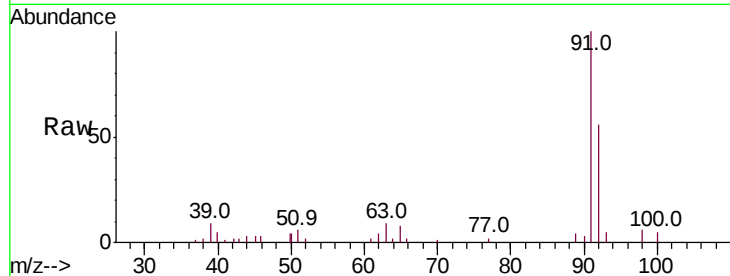
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 16404

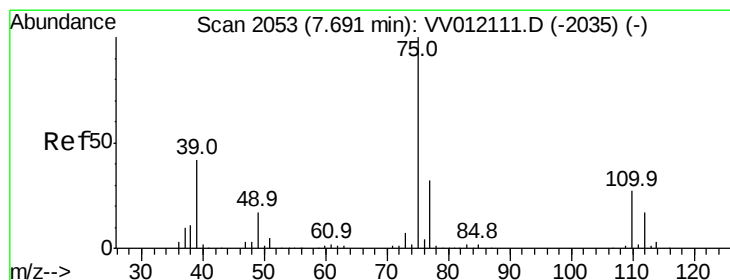
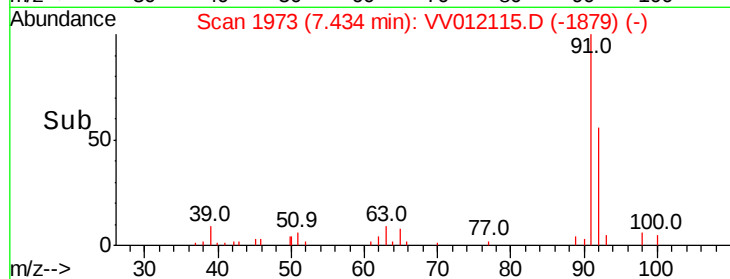
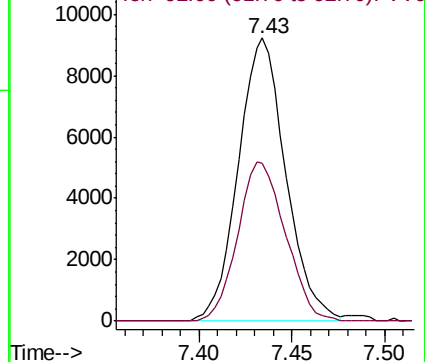
Ion Ratio Lower Upper

91 100

92 56.0 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.443 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012115.D

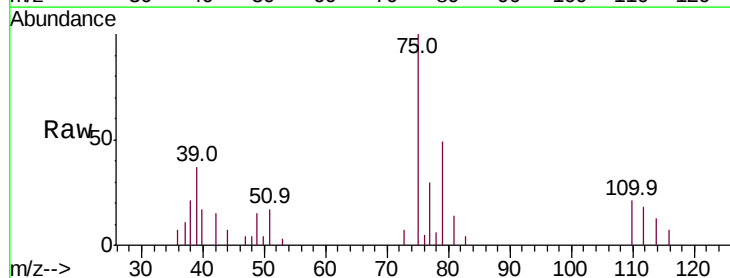
Acq: 06 Aug 2019 15:32

Tgt Ion: 75 Resp: 5823

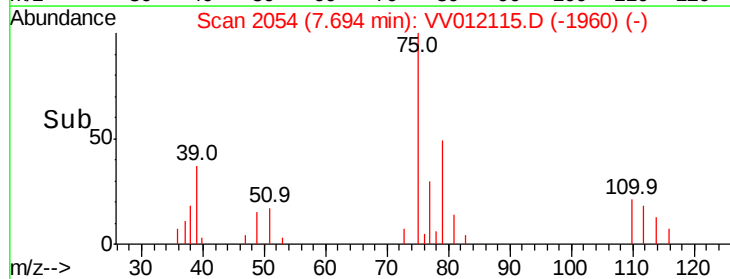
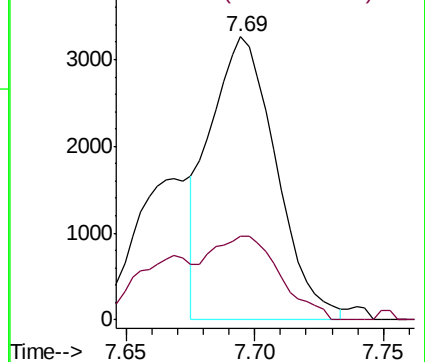
Ion Ratio Lower Upper

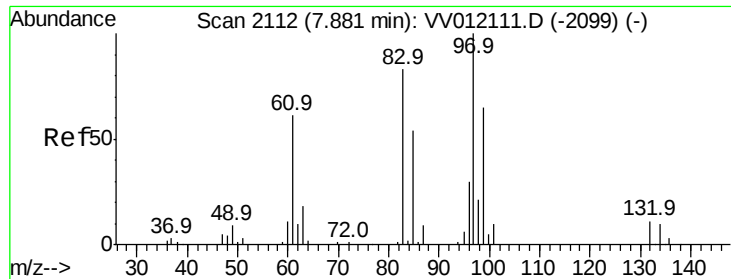
75 100

77 29.5 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0

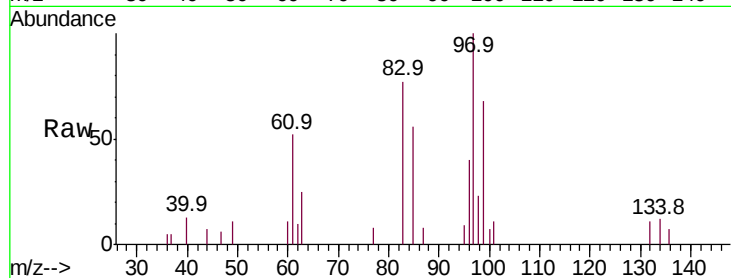




#45
1,1,2-Trichloroethane
Concen: 2.277 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:	97	Resp:	3516
Ion	Ratio	Lower	Upper
97	100		
99	68.4	47.2	87.6
83	77.1	58.0	107.6
85	56.1	38.0	70.6



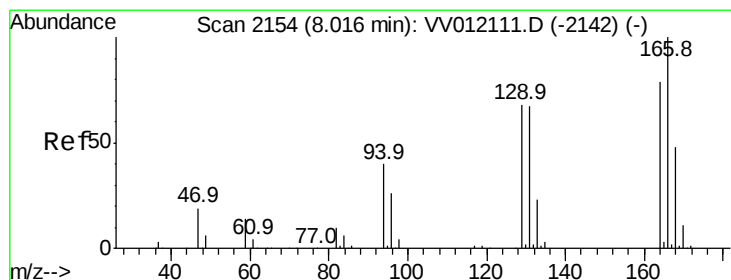
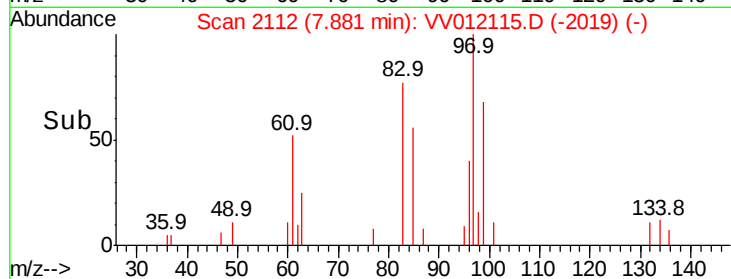
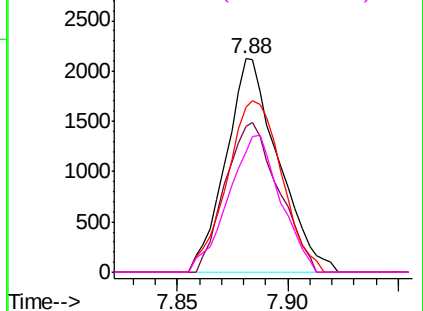
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

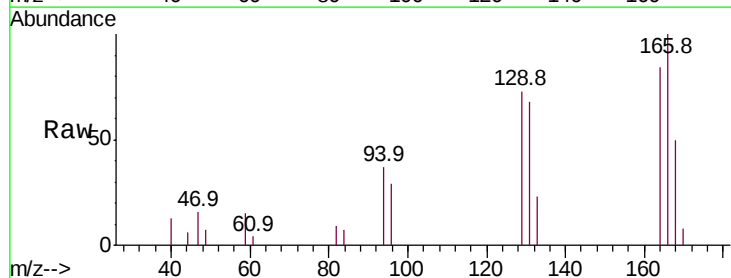
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
Tetrachloroethene
Concen: 2.515 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Tgt Ion:	164	Resp:	3825
Ion	Ratio	Lower	Upper
164	100		
129	87.7	64.3	119.5
131	81.1	60.1	111.7
166	119.6	91.8	170.6



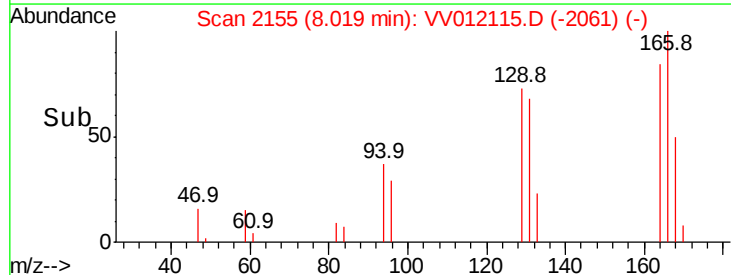
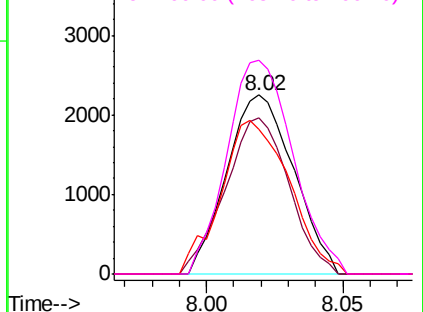
Abundance

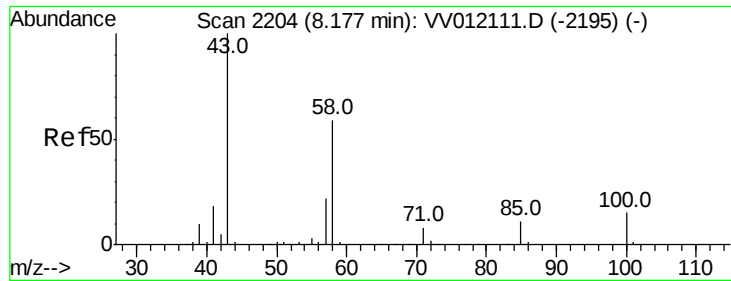
Ion 164.00 (163.70 to 164.70): V

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

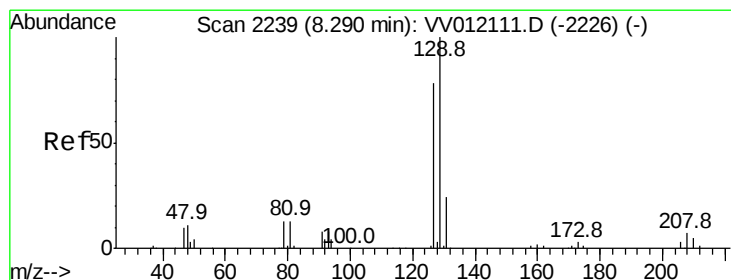
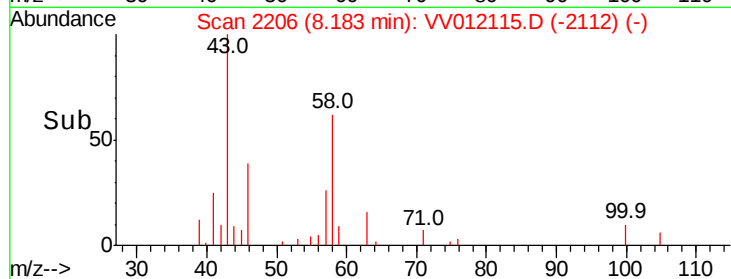
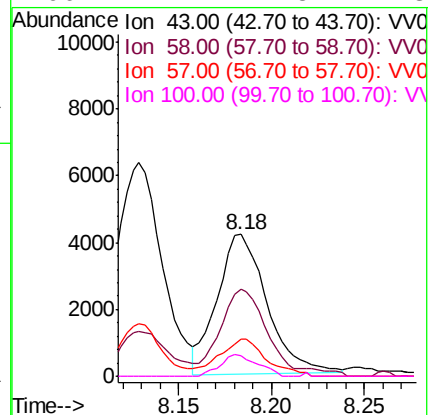
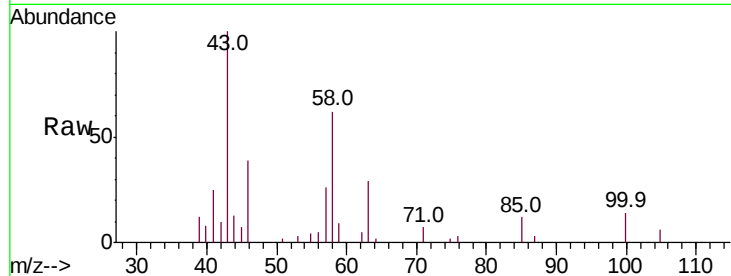




#48
2-Hexanone
Concen: 5.597 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

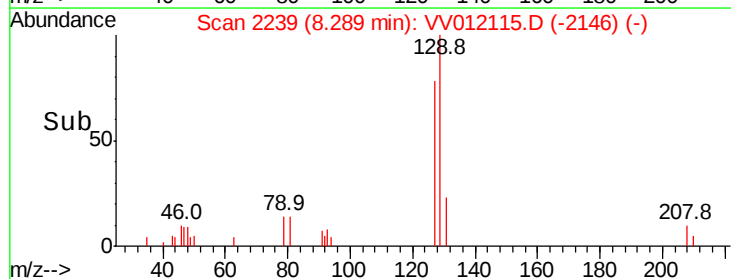
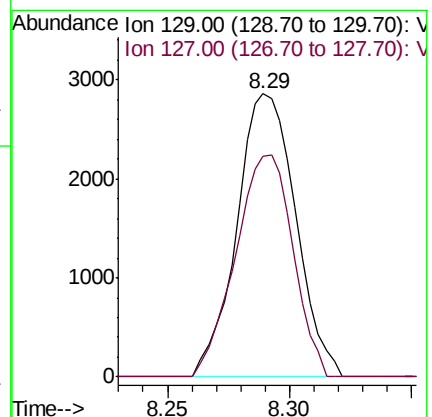
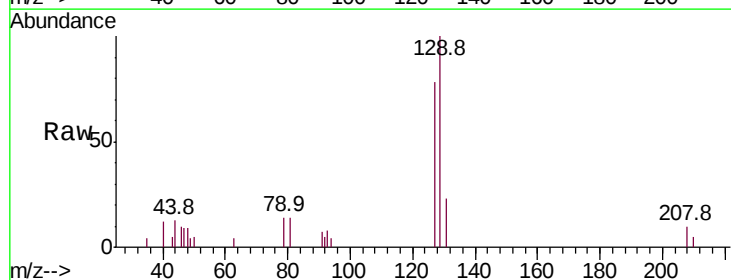
Instrument :
MSVOA_V
ClientSampled :

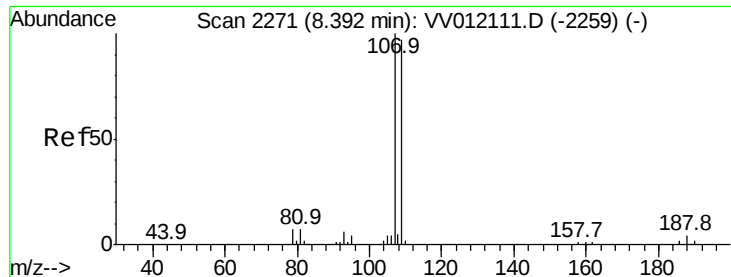
Tot Ion: 43 Resp: 7779
Ion Ratio Lower Upper
43 100
58 50.0 45.6 68.4
57 24.6 17.0 25.6
100 11.7 11.5 17.3



#49
Dibromochloromethane
Concen: 2.388 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Tgt Ion: 129 Resp: 4785
Ion Ratio Lower Upper
129 100
127 78.1 53.8 100.0

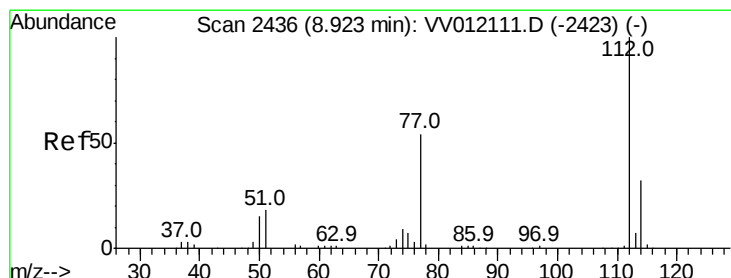
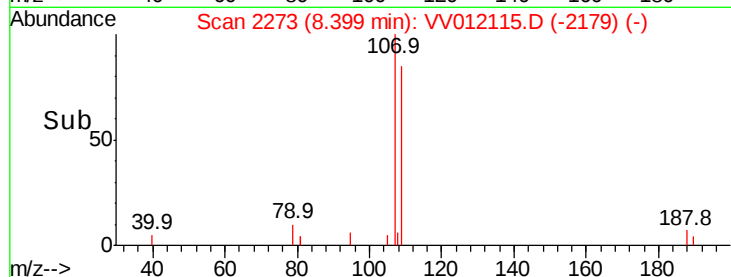
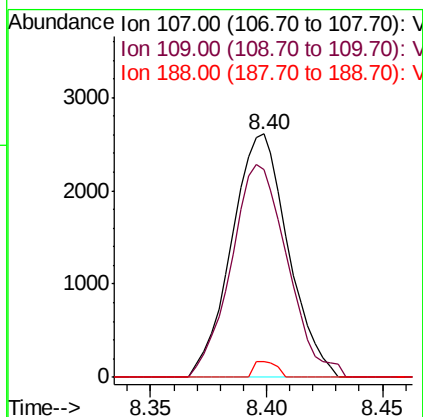
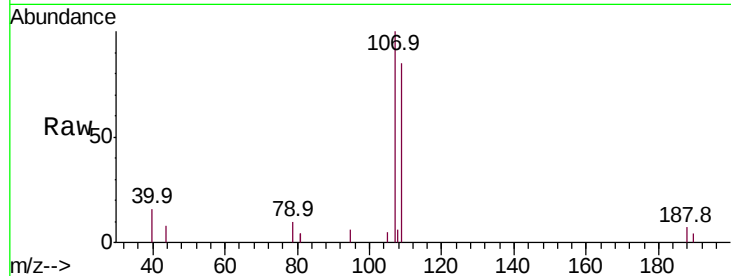




#50
 1,2-Dibromoethane
 Concen: 2.592 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

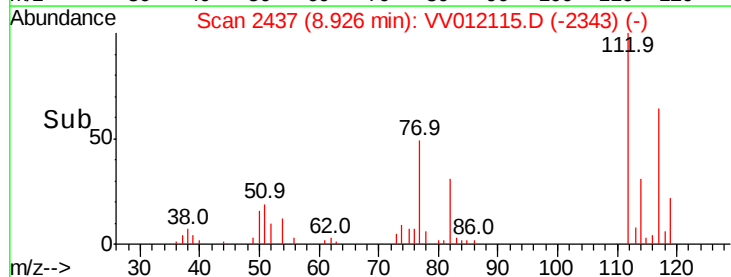
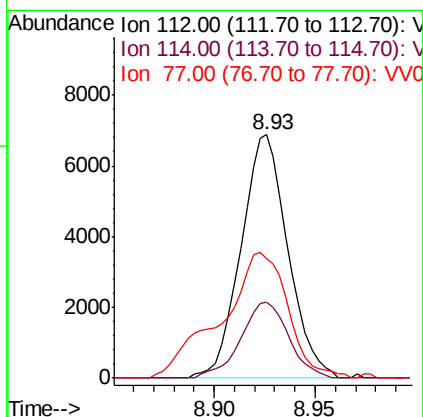
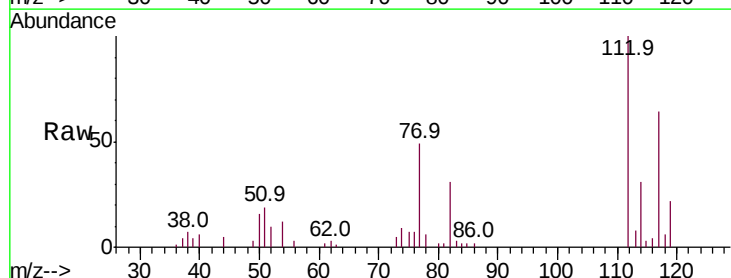
Instrument :
 MSVOA_V
 ClientSampleId :

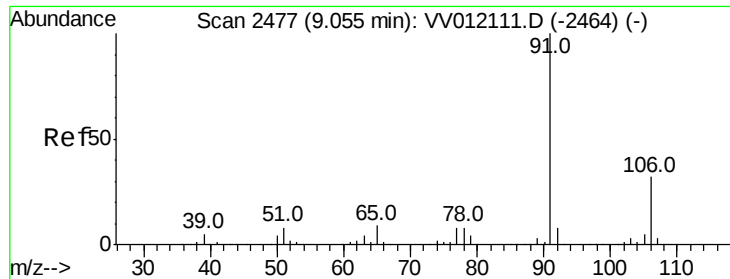
Tot Ion:107 Resp: 4426
 Ion Ratio Lower Upper
 107 100
 109 85.2 67.0 124.4
 188 6.7 3.9 5.9#



#51
 Chlorobenzene
 Concen: 2.539 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Tgt Ion:112 Resp: 11169
 Ion Ratio Lower Upper
 112 100
 114 31.3 22.8 42.4
 77 49.2 44.7 67.1





#52

Ethylbenzene

Concen: 2.430 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

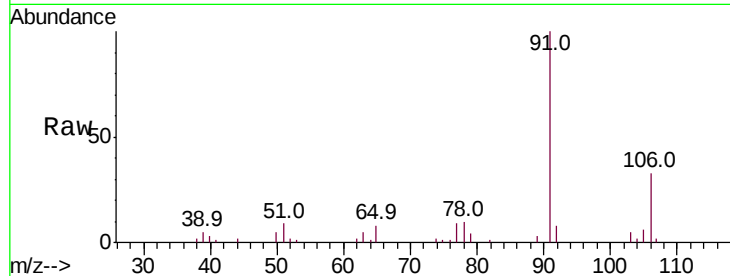
ClientSampled :

Tot Ion: 91 Resp: 17790

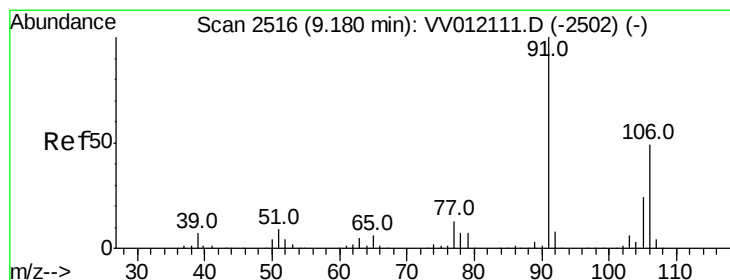
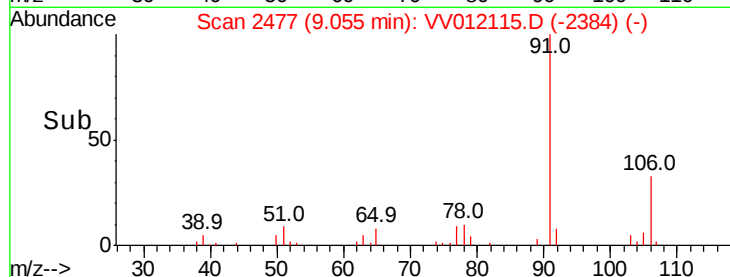
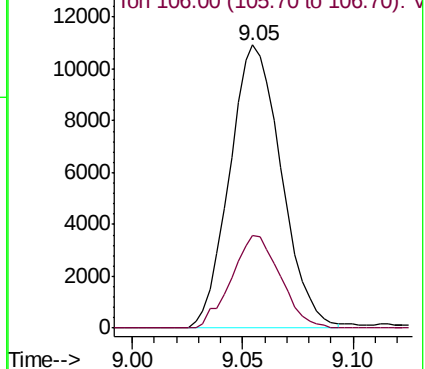
Ion Ratio Lower Upper

91 100

106 32.8 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV012115.D (-2464) (-)



#53

m,p-Xylene

Concen: 2.481 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012115.D

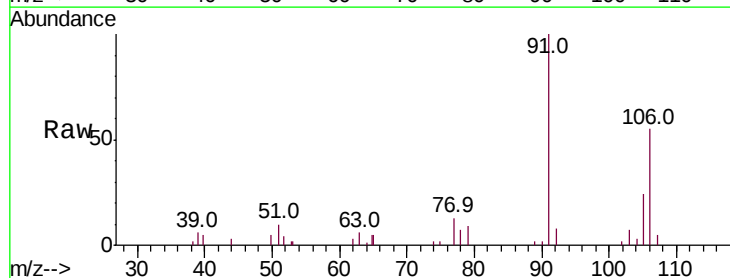
Acq: 06 Aug 2019 15:32

Tgt Ion: 106 Resp: 7007

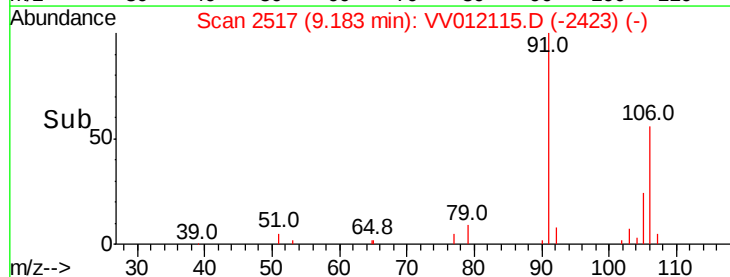
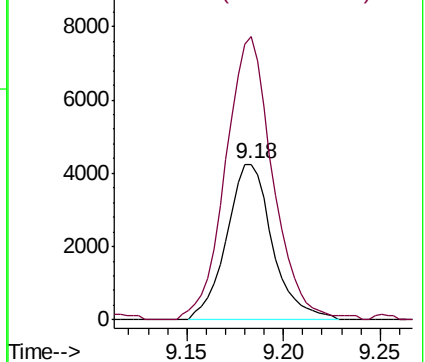
Ion Ratio Lower Upper

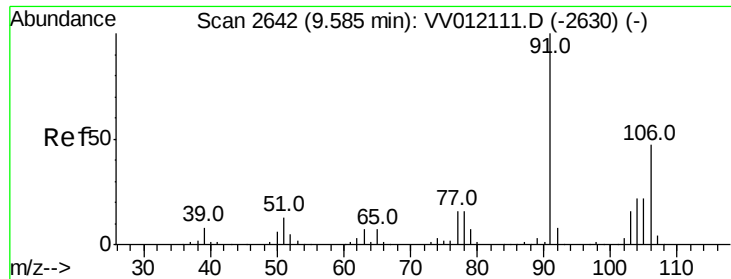
106 100

91 181.7 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV012115.D (-2502) (-)

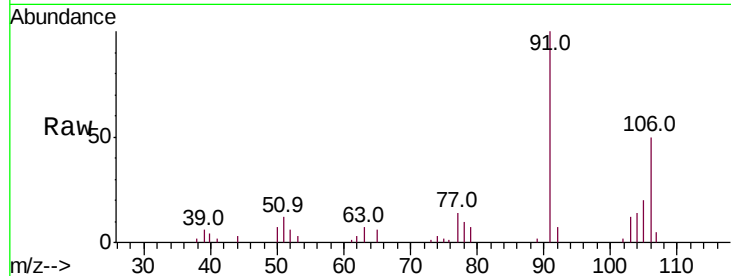




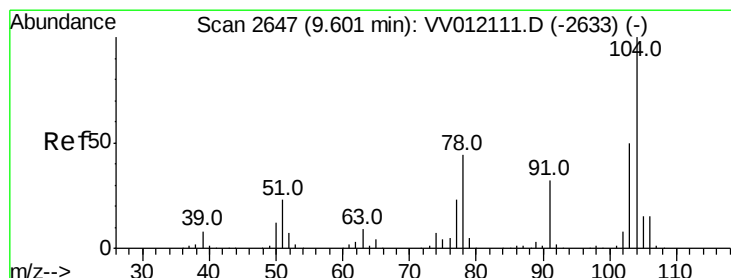
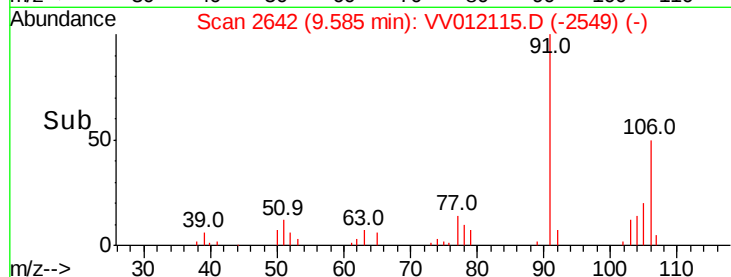
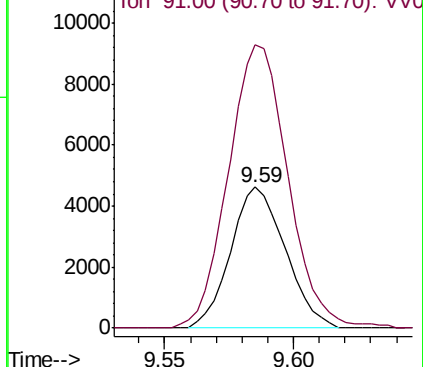
#54
o-Xylene
Concen: 2.439 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 6834
Ion Ratio Lower Upper
106 100
91 200.8 150.4 279.2

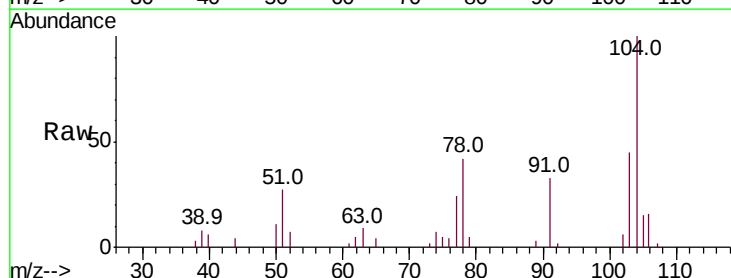


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

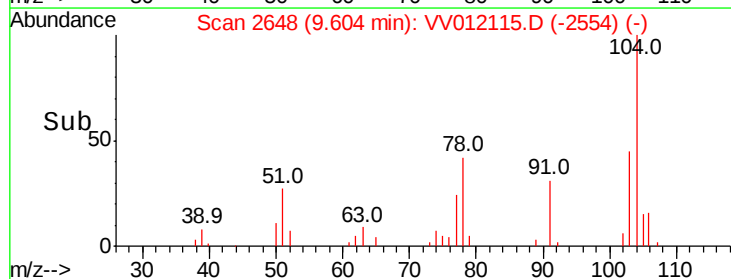
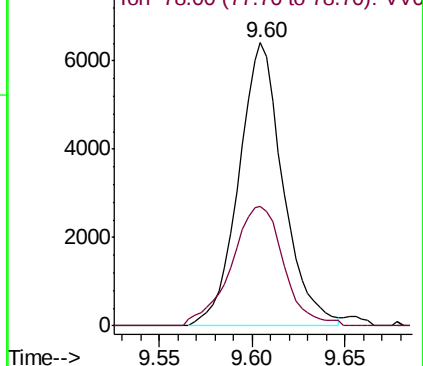


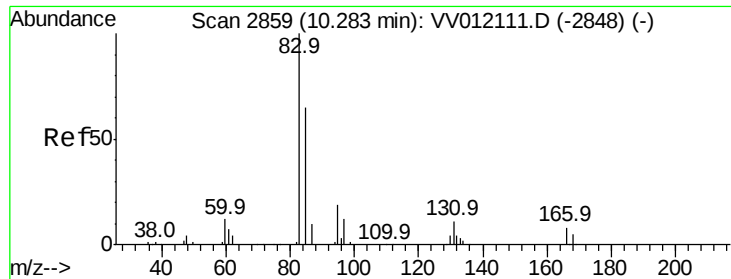
#55
Styrene
Concen: 2.255 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Tgt Ion:104 Resp: 10648
Ion Ratio Lower Upper
104 100
78 42.3 32.0 59.4



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





#57

1,1,2,2-Tetrachloroethane

Concen: 2.749 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

ClientSampleId :

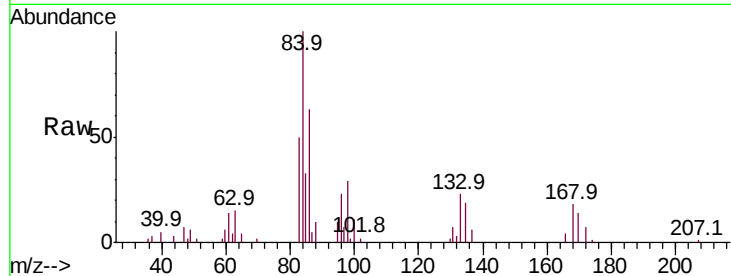
Tot Ion: 83 Resp: 6526

Ion Ratio Lower Upper

83 100

85 65.9 44.6 82.8

131 14.5 9.3 13.9#

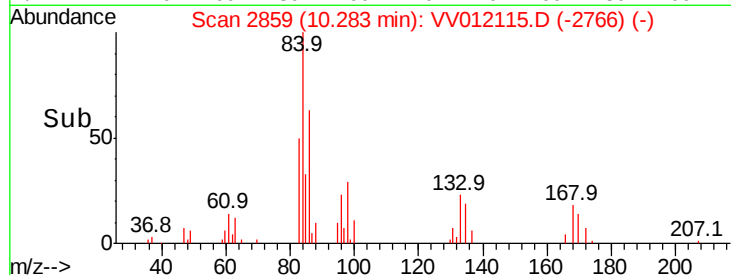


Abundance Ion 83.00 (82.70 to 83.70): VV012111.D (-2848) (-)

Ion 85.00 (84.70 to 85.70): VV012111.D (-2848) (-)

Ion 131.00 (130.70 to 131.70): VV012111.D (-2848) (-)

Time-->

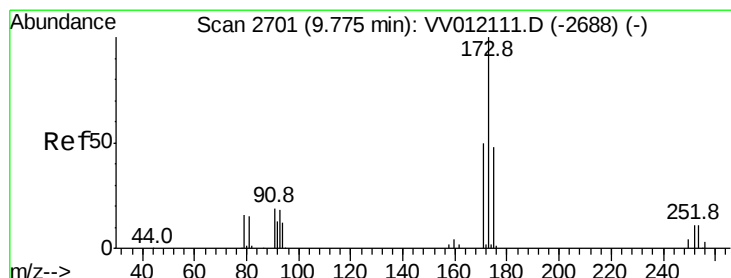


Abundance Ion 83.00 (82.70 to 83.70): VV012115.D (-2766) (-)

Ion 85.00 (84.70 to 85.70): VV012115.D (-2766) (-)

Ion 131.00 (130.70 to 131.70): VV012115.D (-2766) (-)

Time-->



#59

Bromoform

Concen: 2.217 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

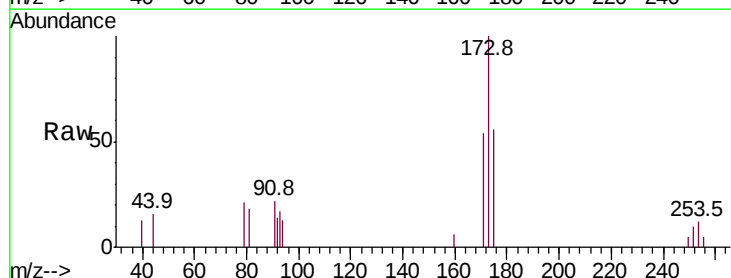
Tgt Ion: 173 Resp: 3309

Ion Ratio Lower Upper

173 100

175 52.4 38.3 57.5

254 0.0 8.9 13.3#

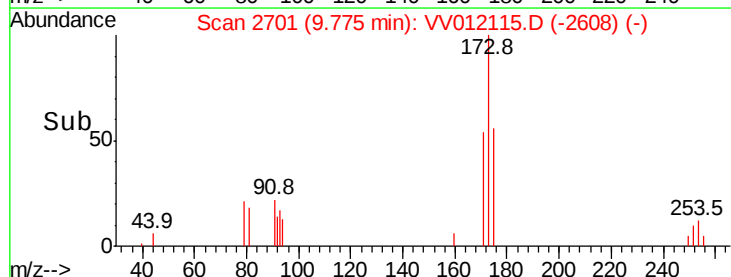


Abundance Ion 173.00 (172.70 to 173.70): VV012111.D (-2688) (-)

Ion 175.00 (174.70 to 175.70): VV012111.D (-2688) (-)

Ion 254.00 (253.70 to 254.70): VV012111.D (-2688) (-)

Time-->

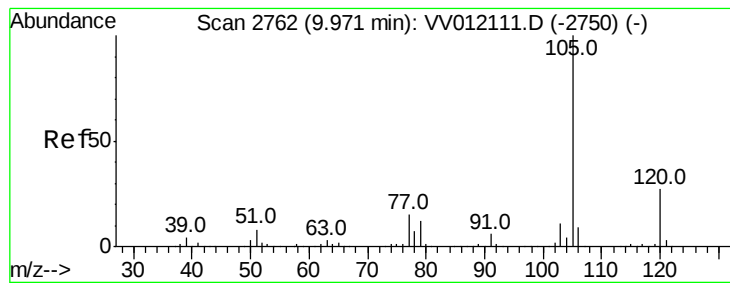


Abundance Ion 173.00 (172.70 to 173.70): VV012115.D (-2608) (-)

Ion 175.00 (174.70 to 175.70): VV012115.D (-2608) (-)

Ion 254.00 (253.70 to 254.70): VV012115.D (-2608) (-)

Time-->



#60

Isopropylbenzene

Concen: 2.519 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

ClientSampleId :

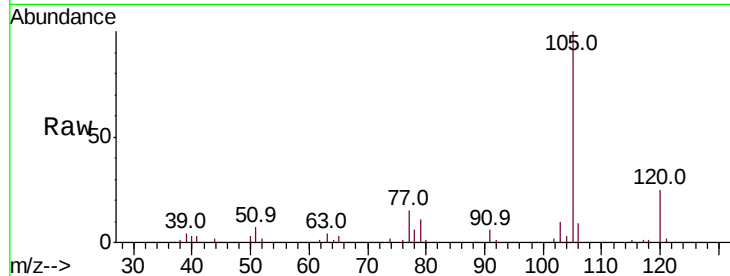
Tot Ion:105 Resp: 17547

Ion Ratio Lower Upper

105 100

120 25.4 21.4 32.0

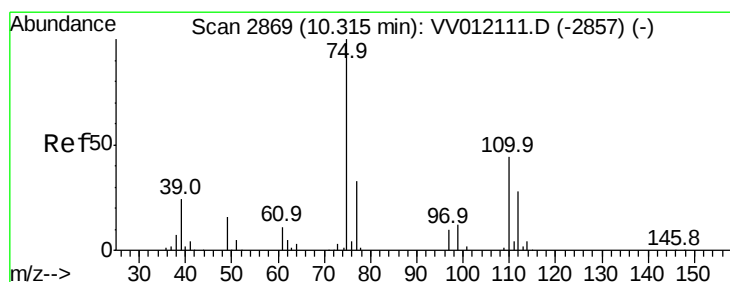
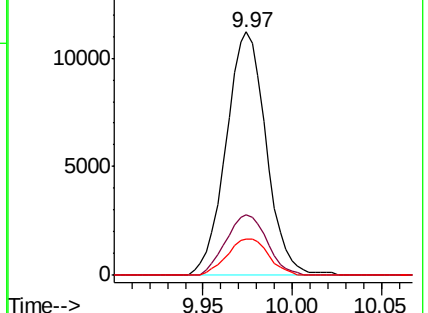
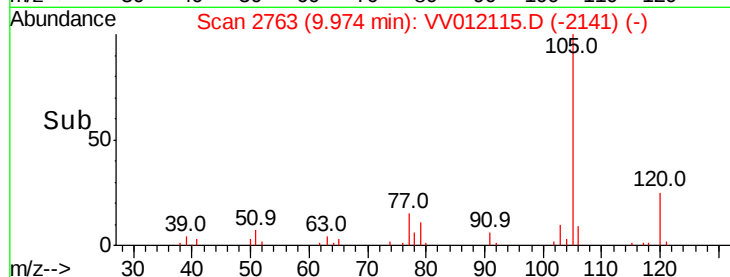
77 15.4 11.6 17.4



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



#61

1,2,3-Trichloropropane

Concen: 2.672 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

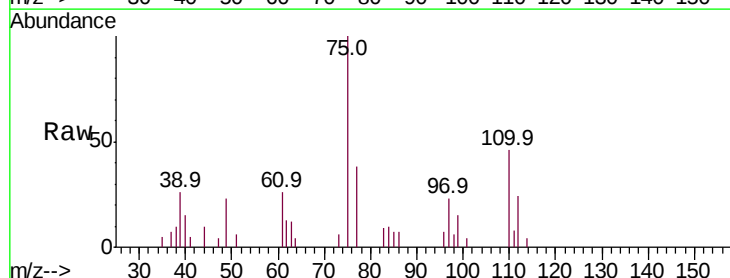
Tgt Ion: 75 Resp: 4618

Ion Ratio Lower Upper

75 100

77 36.8 25.7 38.5

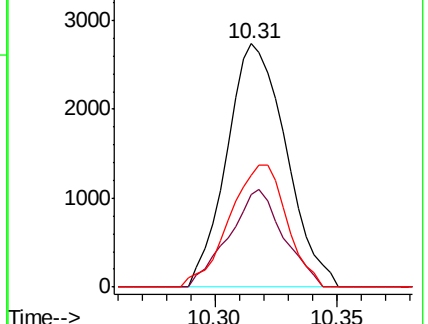
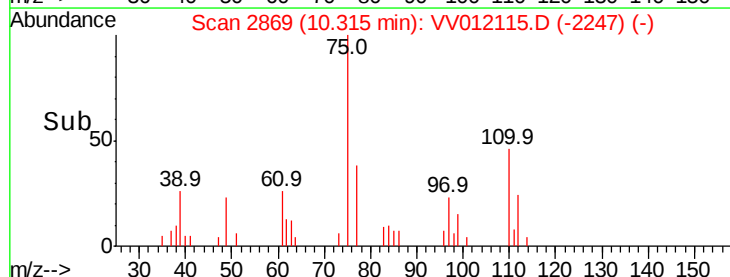
110 48.3 34.2 51.4

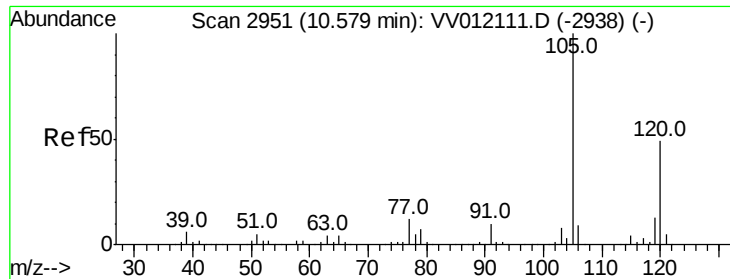


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

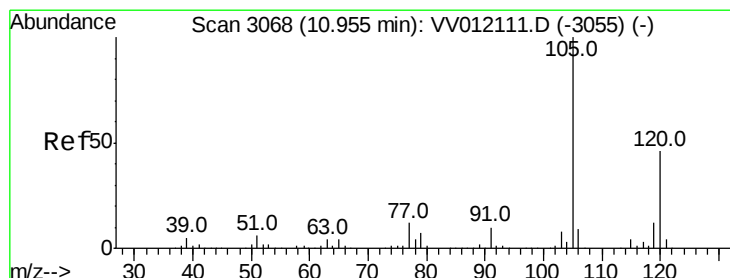
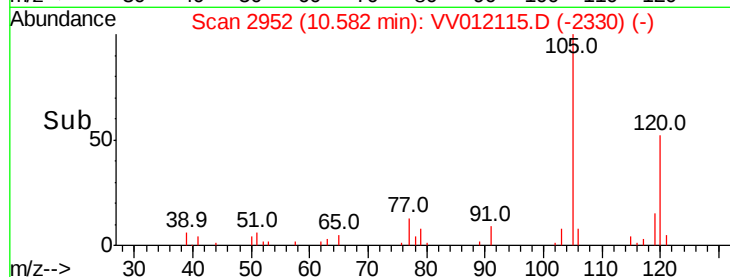
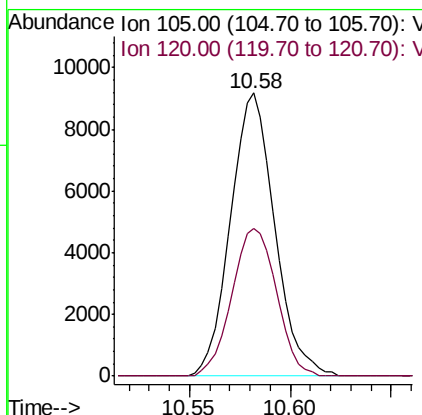
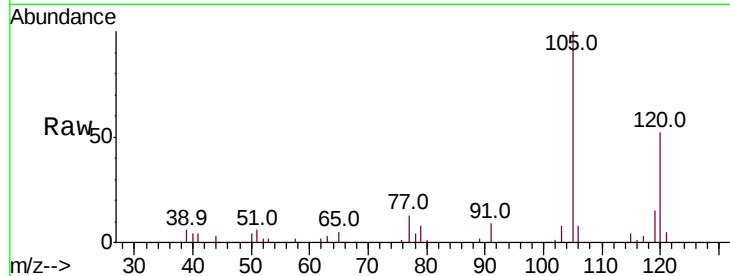




#62
 1,3,5-Trimethylbenzene
 Concen: 2.338 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. -0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

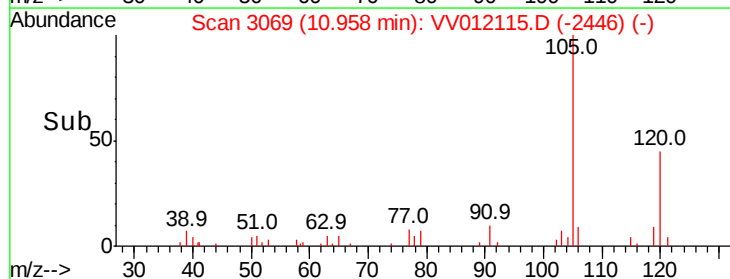
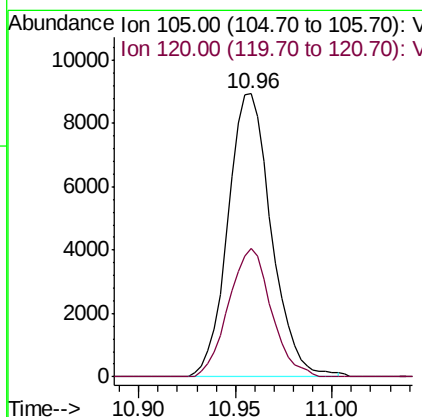
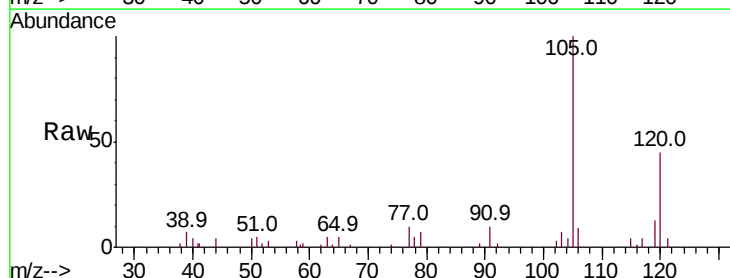
Instrument :
 MSVOA_V
 ClientSampleId :

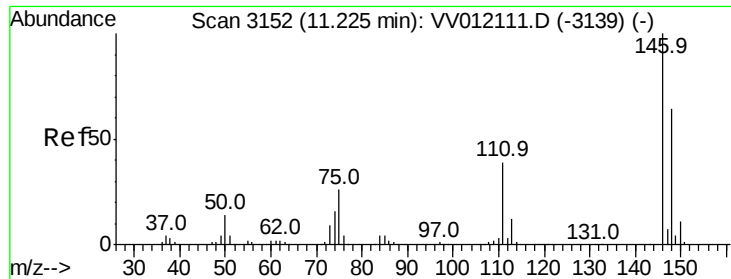
Tot Ion:105 Resp: 14080
 Ion Ratio Lower Upper
 105 100
 120 52.6 39.2 58.8



#63
 1,2,4-Trimethylbenzene
 Concen: 2.347 ug/L
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Tgt Ion:105 Resp: 13949
 Ion Ratio Lower Upper
 105 100
 120 44.6 36.7 55.1

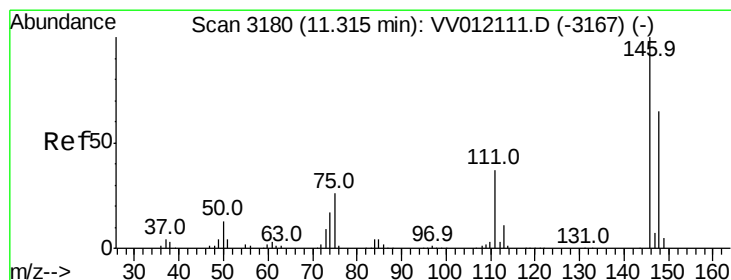
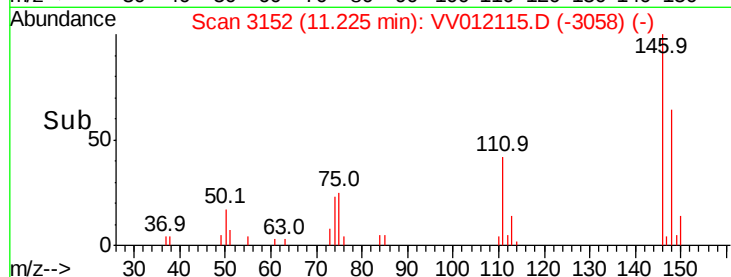
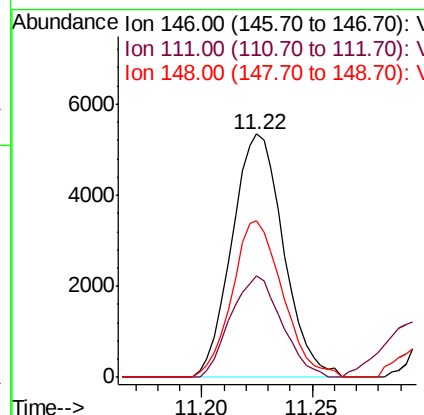
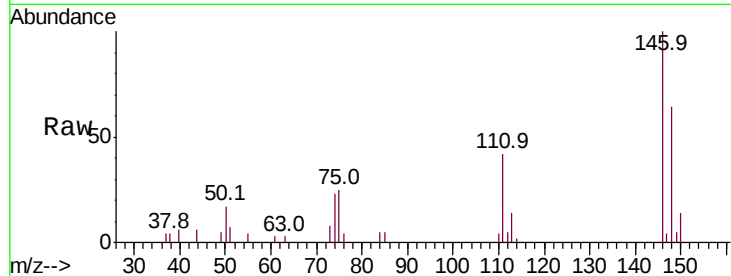




#64
 1,3-Dichlorobenzene
 Concen: 2.476 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

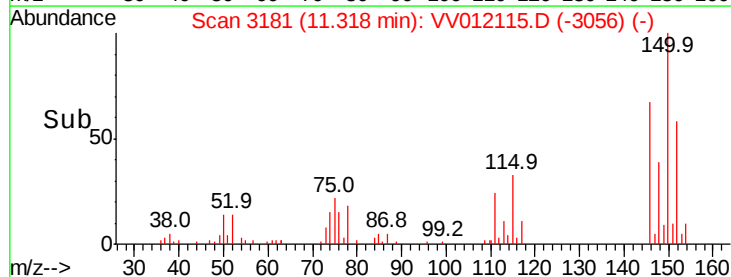
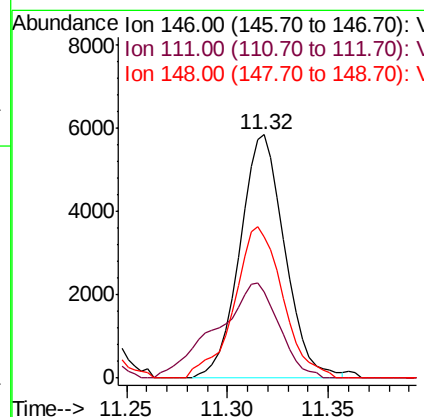
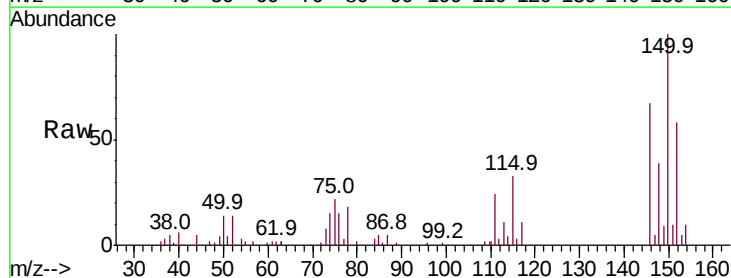
Instrument :
 MSVOA_V
 ClientSampleId :

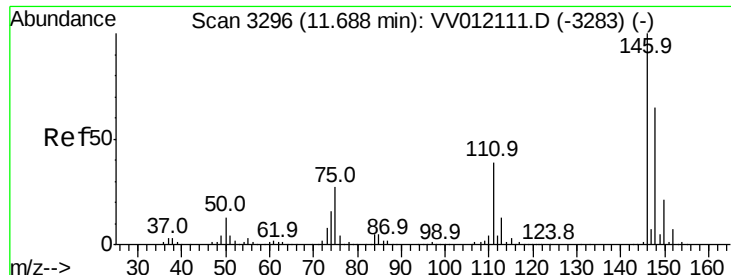
Tot Ion:146 Resp: 8703
 Ion Ratio Lower Upper
 146 100
 111 41.6 26.8 49.8
 148 64.2 44.6 82.8



#65
 1,4-Dichlorobenzene
 Concen: 2.564 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Tgt Ion:146 Resp: 9111
 Ion Ratio Lower Upper
 146 100
 111 35.4 25.8 47.8
 148 58.2 45.2 84.0





#67

1,2-Dichlorobenzene

Concen: 2.575 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

Instrument :

MSVOA_V

ClientSampled :

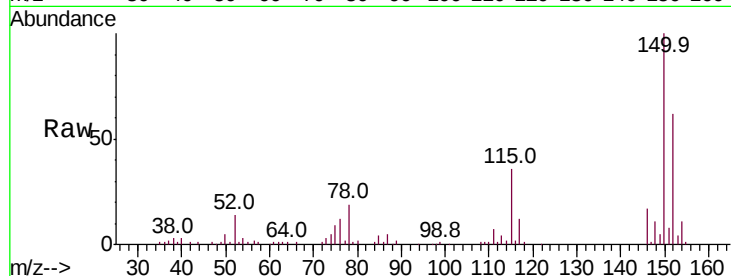
Tot Ion:146 Resp: 9236

Ion Ratio Lower Upper

146 100

111 43.9 32.2 48.2

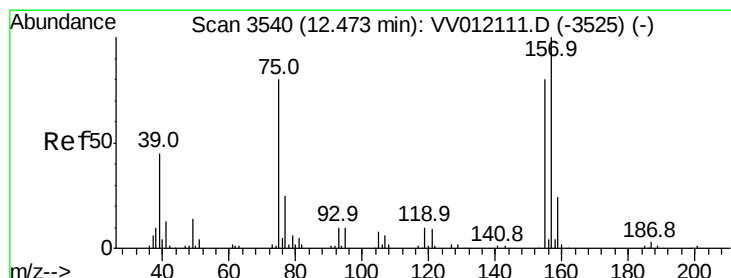
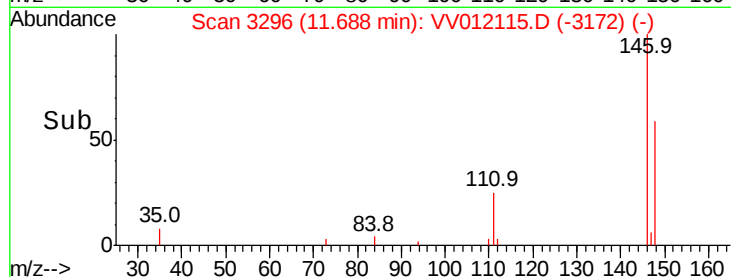
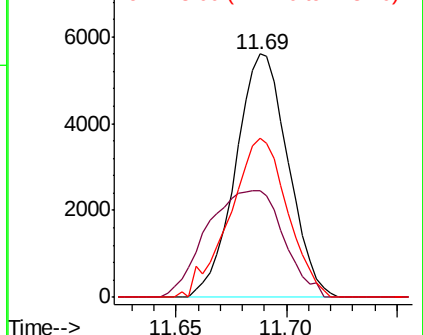
148 65.1 53.2 79.8



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



#68

1,2-Dibromo-3-chloropropane

Concen: 2.551 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012115.D

Acq: 06 Aug 2019 15:32

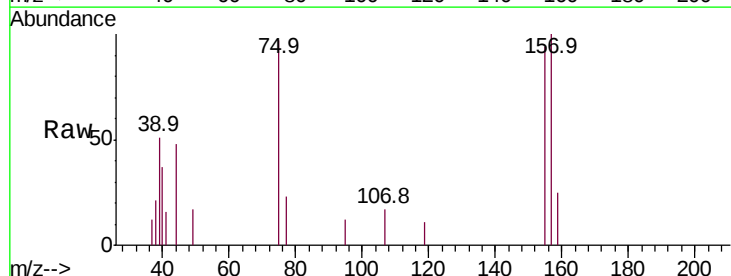
Tgt Ion: 75 Resp: 1453

Ion Ratio Lower Upper

75 100

155 96.6 81.2 121.8

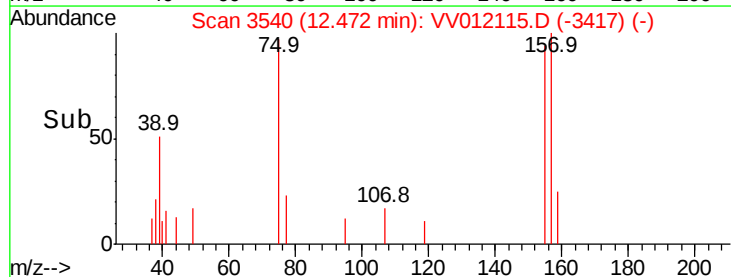
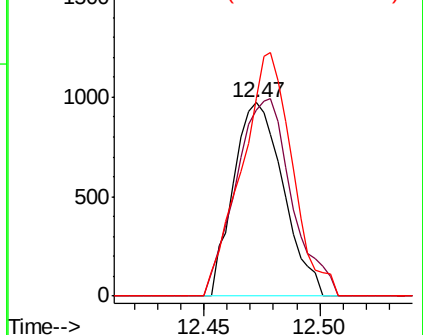
157 102.6 102.3 153.5

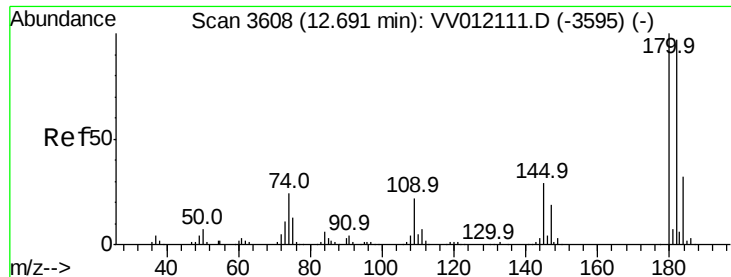


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

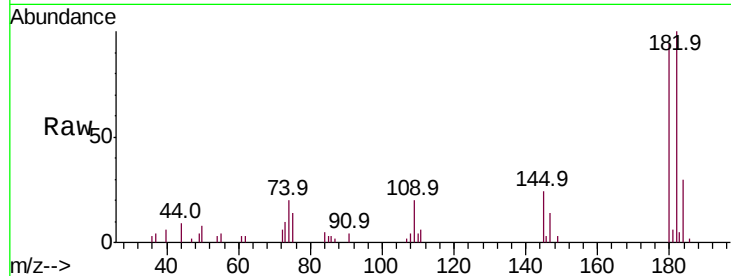




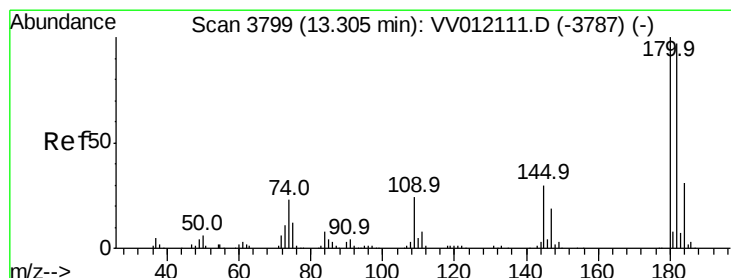
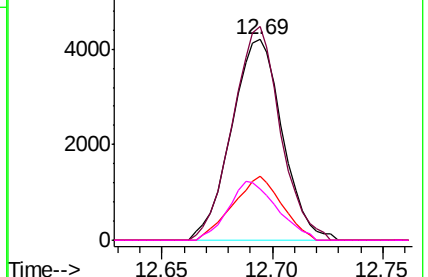
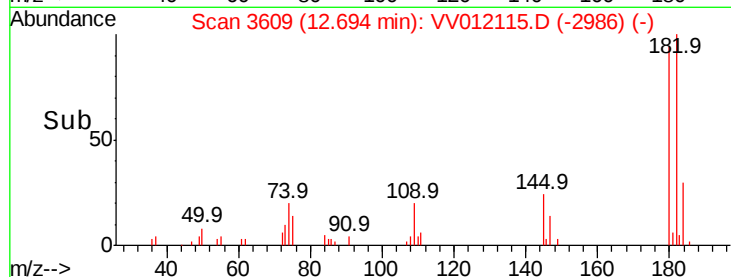
#69
 1,3,5-Trichlorobenzene
 Concen: 2.367 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 6745
 Ion Ratio Lower Upper
 180 100
 182 100.2 76.5 114.7
 184 30.7 24.6 36.8
 145 28.1 22.5 33.7

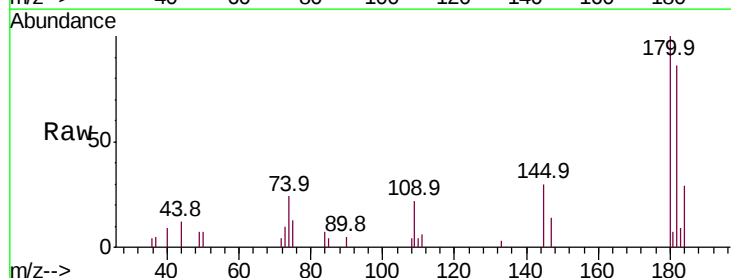


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

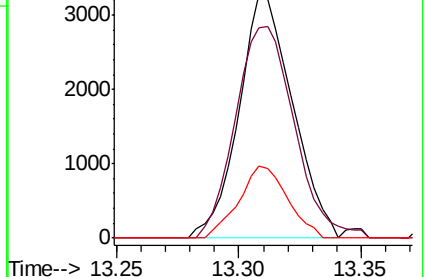
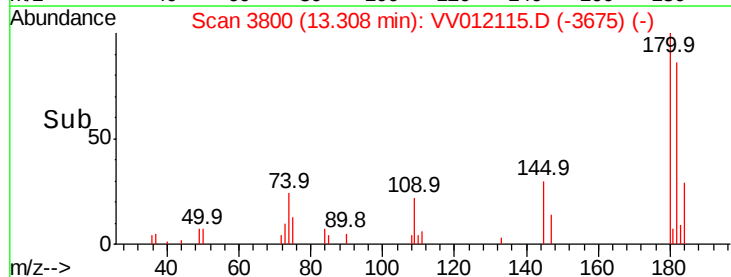


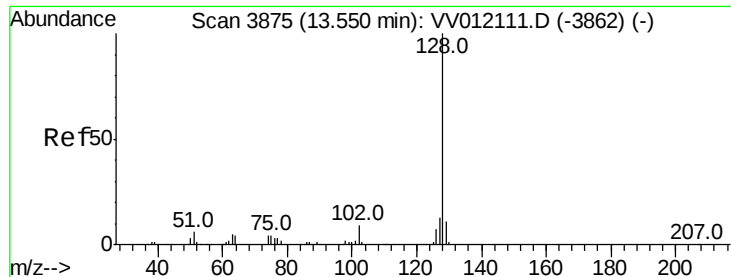
#70
 1,2,4-trichlorobenzene
 Concen: 2.022 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012115.D
 Acq: 06 Aug 2019 15:32

Tgt Ion:180 Resp: 4996
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.5 114.7
 145 26.9 23.3 34.9



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

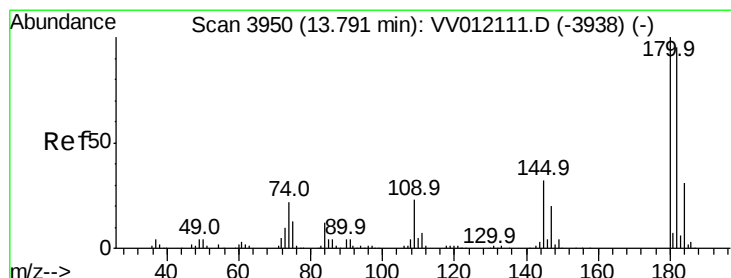
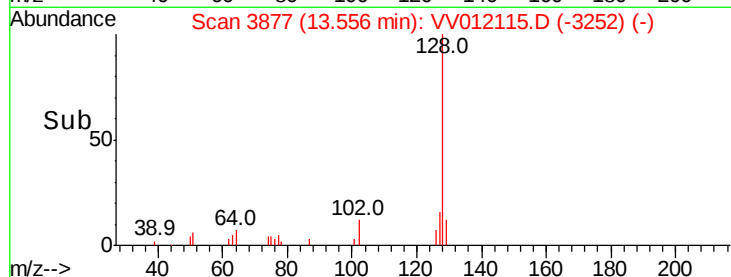
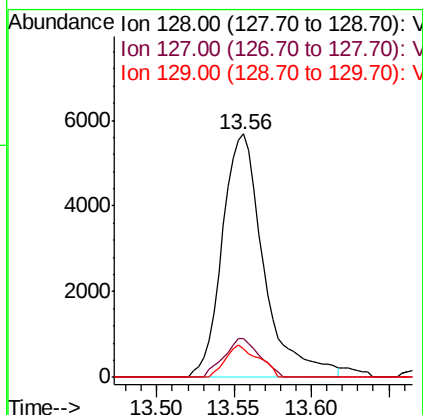
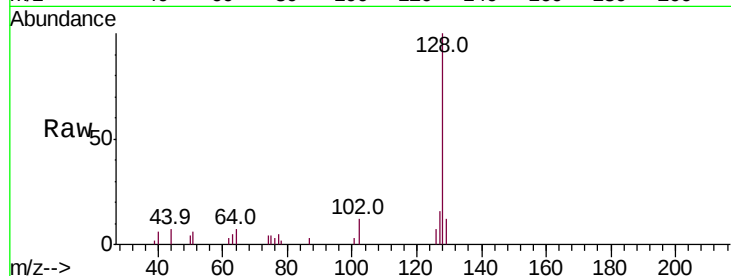




#71
Naphthalene
Concen: 1.692 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.01 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:128 Resp: 10595
Ion Ratio Lower Upper
128 100
127 13.7 10.6 15.8
129 10.4 8.6 12.8



#72
1,2,3-Trichlorobenzene
Concen: 1.924 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012115.D
Acq: 06 Aug 2019 15:32

Tgt Ion:180 Resp: 4784
Ion Ratio Lower Upper
180 100
182 106.6 77.2 115.8
145 33.6 24.6 36.8

