

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081219\
 Data File : VV012199.D
 Acq On : 12 Aug 2019 10:47
 Operator : SY/MD
 Sample : VSTDIC005
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 12 14:03:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 12 14:00:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	496345	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	474682	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	230099	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	15945	7.64	ug/L	0.00
7) Chloroethane-d5	1.58	69	13604	9.26	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	29802	7.58	ug/L	0.00
21) 2-Butanone-d5	3.93	46	22790	17.86	ug/L	0.01
24) Chloroform-d	4.40	84	34764	7.75	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	21774	8.23	ug/L	0.00
32) Benzene-d6	5.10	84	67660	7.71	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	20578	8.20	ug/L	0.00
41) Toluene-d8	7.36	98	59306	7.18	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	9895	7.50	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	12766	12.68	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	30035	8.66	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	25530	7.92	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	23784	5.592	ug/L 98
3) Chloromethane	1.25	50	22119	6.991	ug/L 100
5) Vinyl chloride	1.32	62	22650	7.579	ug/L 94
6) Bromomethane	1.53	94	12164	7.046	ug/L 98
8) Chloroethane	1.60	64	12742	7.973	ug/L 92
9) Trichlorofluoromethane	1.77	101	30327	6.313	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	17339	7.377	ug/L 97
12) 1,1-Dichloroethene	2.14	96	16476	7.595	ug/L 93
13) Acetone	2.18	43	32929	22.705	ug/L 97
14) Carbon disulfide	2.32	76	53351	7.035	ug/L 99
15) Methyl Acetate	2.46	43	20286	7.169	ug/L 99
16) Methylene chloride	2.53	84	19920	6.292	ug/L 97
17) trans-1,2-Dichloroethene	2.79	96	19096	6.378	ug/L 96
18) Methyl tert-butyl Ether	2.80	73	52697	5.556	ug/L 97
19) 1,1-Dichloroethane	3.23	63	33618	6.307	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	19943	5.891	ug/L 95
22) 2-Butanone	4.01	43	33009	15.697	ug/L 94
23) Bromochloromethane	4.30	128	10760	5.878	ug/L 88
25) Chloroform	4.42	83	34869	5.917	ug/L 95
27) 1,2-Dichloroethane	5.18	62	25877	5.648	ug/L 96
29) Cyclohexane	4.72	56	27011	5.839	ug/L 94
30) 1,1,1-Trichloroethane	4.65	97	29643	5.447	ug/L 96
31) Carbon tetrachloride	4.87	117	26118	5.170	ug/L 99
33) Benzene	5.15	78	72970	5.975	ug/L 100
34) Trichloroethene	5.96	95	20719	6.306	ug/L 98
35) Methylcyclohexane	6.17	83	29459	5.609	ug/L 97
37) 1,2-Dichloropropane	6.22	63	18410	6.212	ug/L 99
38) Bromodichloromethane	6.55	83	24534	5.477	ug/L # 94
39) cis-1,3-Dichloropropene	7.07	75	25757	5.151	ug/L 97
40) 4-Methyl-2-pentanone	7.27	43	45576	11.837	ug/L 98

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 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 3 Sample Multiplier: 1

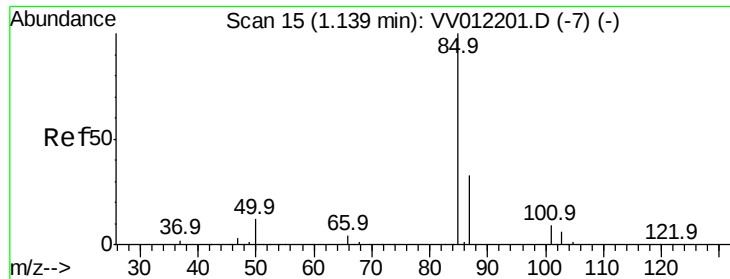
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 12 14:03:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 12 14:00:58 2019
 Response via : Initial Calibration

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

42) Toluene	7.43	91	74724	5.561	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	24530	5.406	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	17993	5.622	ug/L	95
46) Tetrachloroethene	8.02	164	16890	5.458	ug/L	98
48) 2-Hexanone	8.18	43	40806	13.767	ug/L	97
49) Dibromochloromethane	8.29	129	19257	4.845	ug/L	99
50) 1,2-Dibromoethane	8.40	107	18924	5.424	ug/L #	97
51) Chlorobenzene	8.92	112	50813	5.586	ug/L	92
52) Ethylbenzene	9.05	91	81058	5.417	ug/L	100
53) m,p-Xylene	9.18	106	30603	5.182	ug/L	98
54) o-xylene	9.59	106	27923	4.813	ug/L	97
55) Styrene	9.60	104	48113	4.929	ug/L	100
56) Isopropylbenzene	9.97	105	76976	5.038	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.28	83	29569	5.945	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	23323	5.915	ug/L	98
61) Bromoform	9.78	173	13728	4.822	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	41079	5.885	ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	43333	6.185	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	42339	6.029	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	6060	5.615	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	30092	5.475	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	22521	4.960	ug/L	98
69) Naphthalene	13.55	128	56770	4.481	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	26034	5.464	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 5.592 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

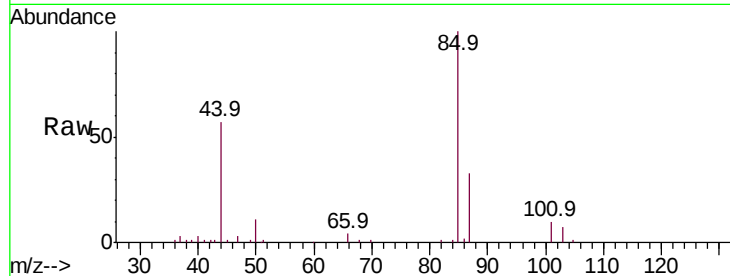
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 23784

Ion Ratio Lower Upper

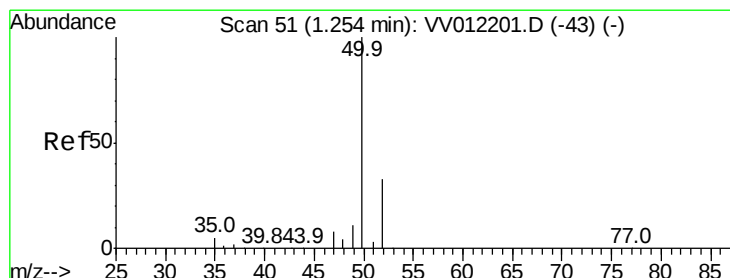
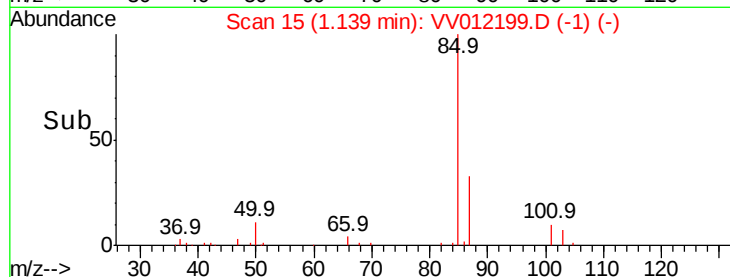
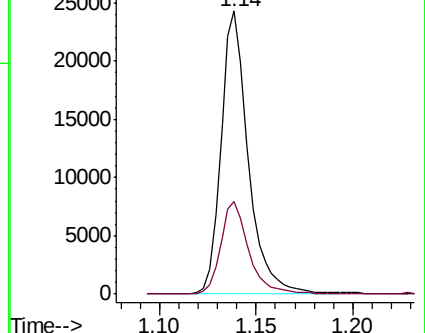
85 100

87 33.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV012201.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012201.D (-7) (-)



#3

Chloromethane

Concen: 6.991 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012199.D

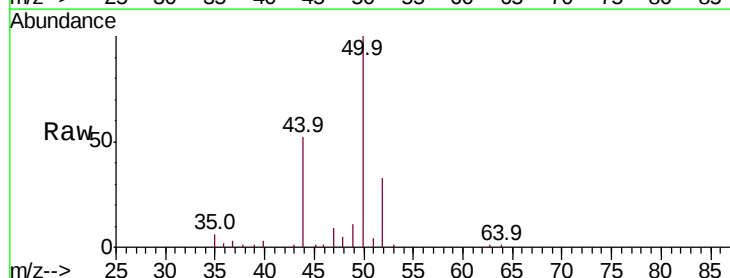
Acq: 12 Aug 2019 10:47

Tgt Ion: 50 Resp: 22119

Ion Ratio Lower Upper

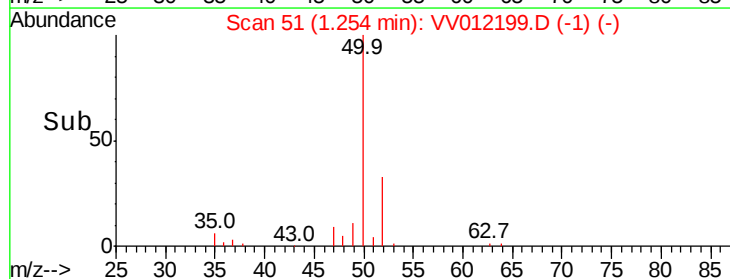
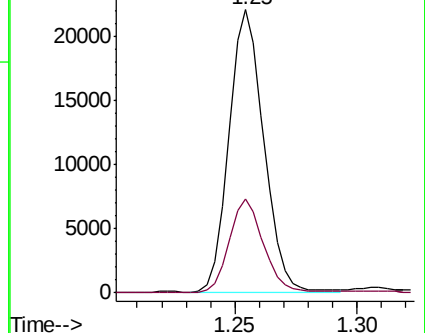
50 100

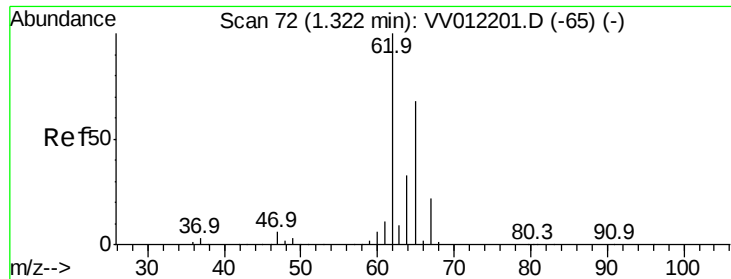
52 33.1 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VV012201.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012201.D (-43) (-)





#5

Vinyl chloride

Concen: 7.579 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

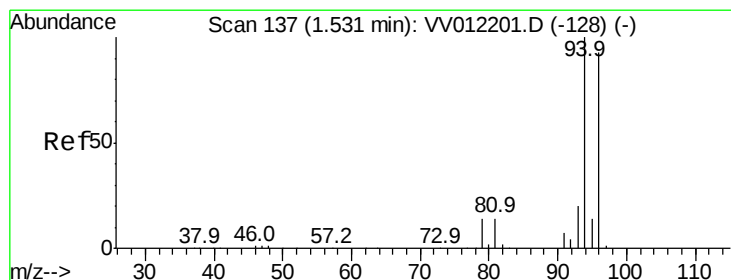
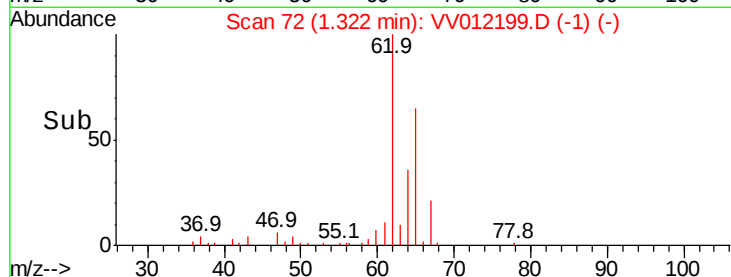
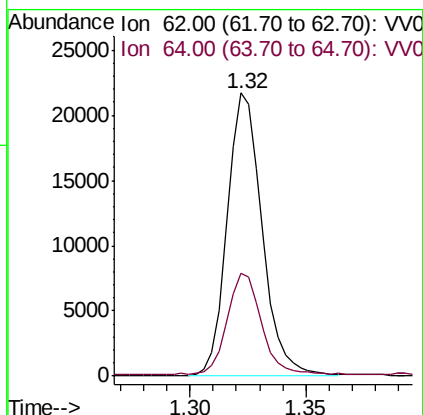
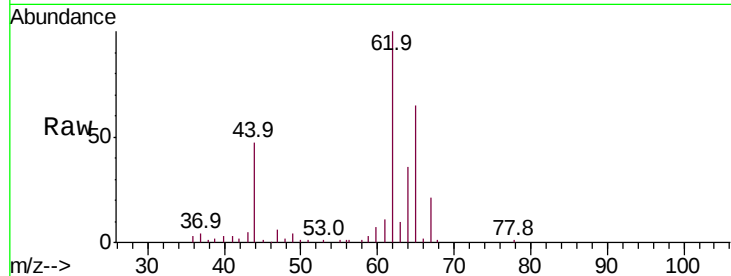
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 22650

Ion Ratio Lower Upper

62 100

64 36.4 23.1 42.9



#6

Bromomethane

Concen: 7.046 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV012199.D

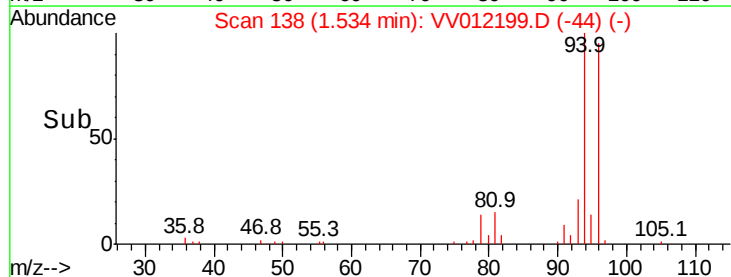
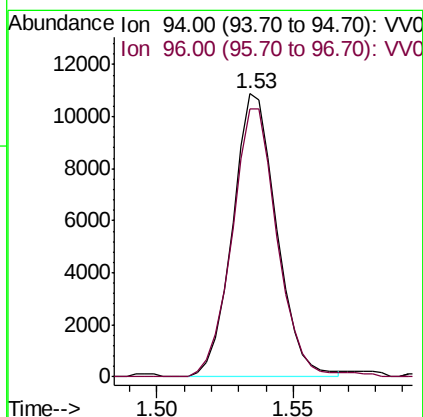
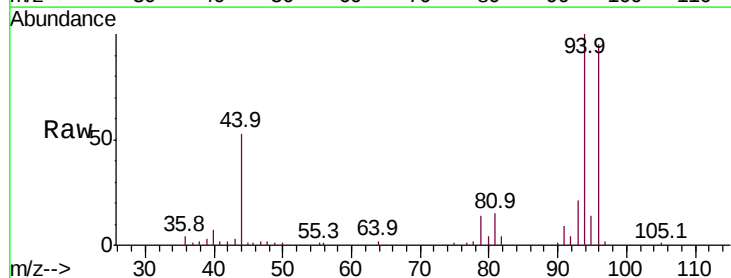
Acq: 12 Aug 2019 10:47

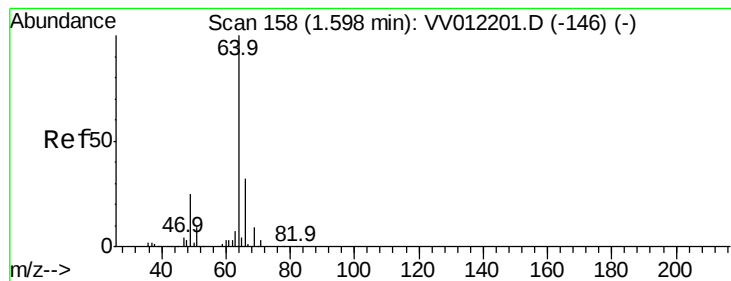
Tgt Ion: 94 Resp: 12164

Ion Ratio Lower Upper

94 100

96 94.9 65.0 120.8





#8

Chloroethane

Concen: 7.973 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

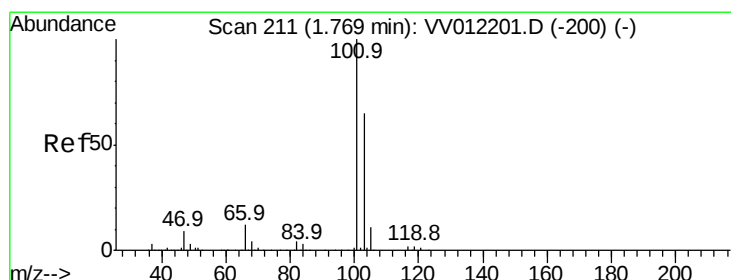
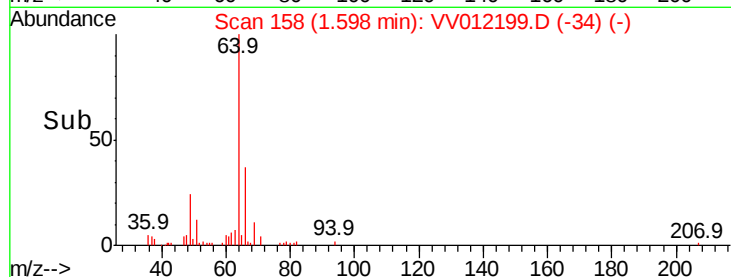
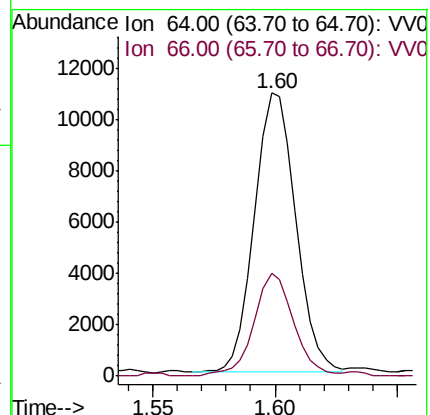
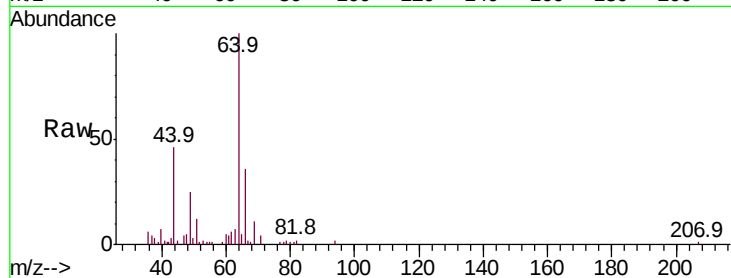
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 12742

Ion Ratio Lower Upper

64 100

66 36.3 22.3 41.3



#9

Trichlorofluoromethane

Concen: 6.313 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012199.D

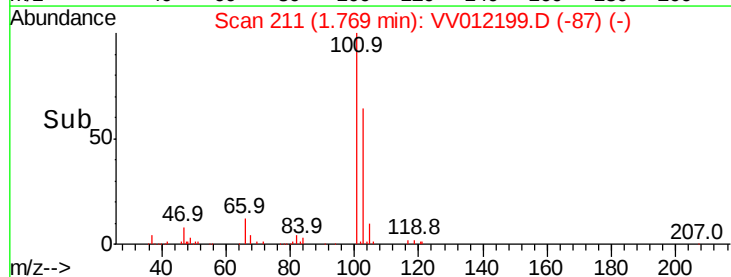
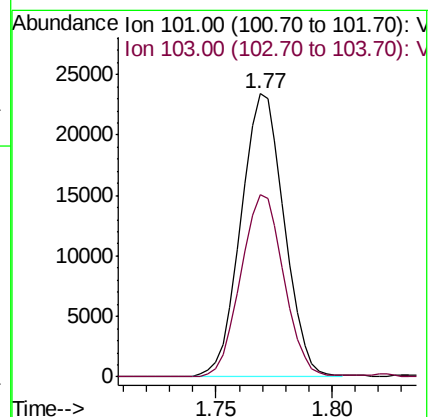
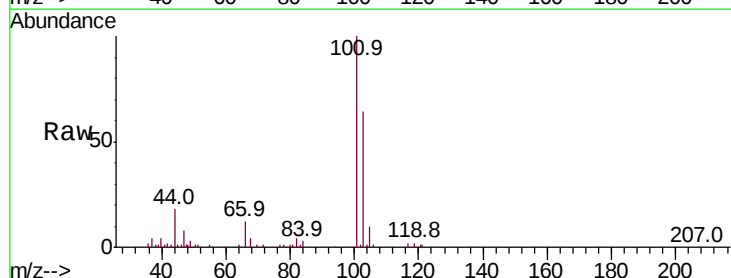
Acq: 12 Aug 2019 10:47

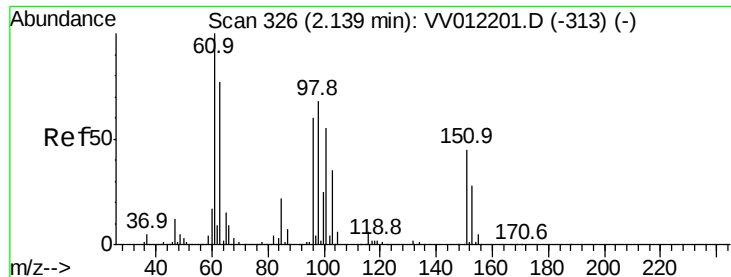
Tgt Ion: 101 Resp: 30327

Ion Ratio Lower Upper

101 100

103 64.3 51.8 77.6





#10

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

Concen: 7.377 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

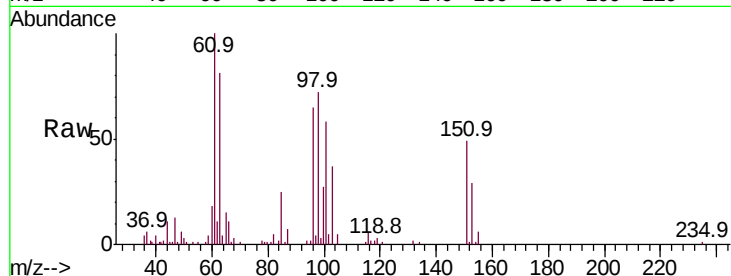
Instrument :

MSVOA_V

ClientSampled :

Tot Ion:101 Resp: 17339

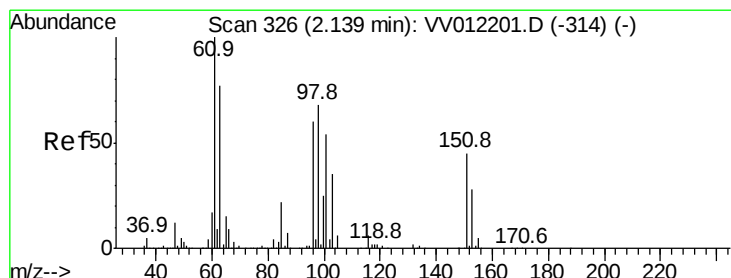
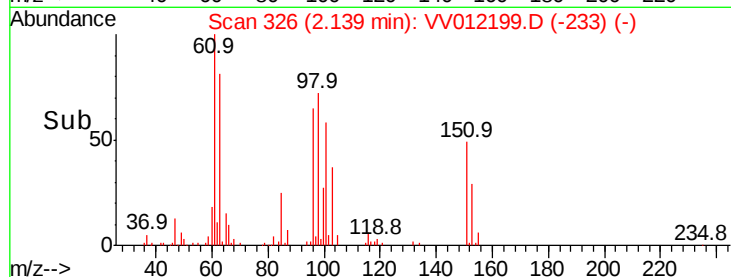
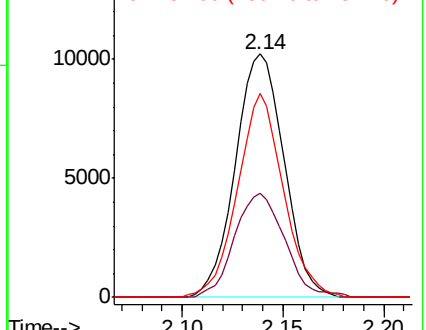
Ion	Ratio	Lower	Upper
101	100		
85	43.8	32.8	49.2
151	78.9	65.0	97.6



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: 7.595 ug/L

RT: 2.14 min Scan# 326

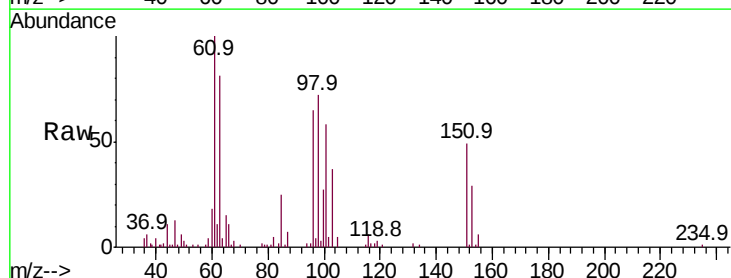
Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Tgt Ion: 96 Resp: 16476

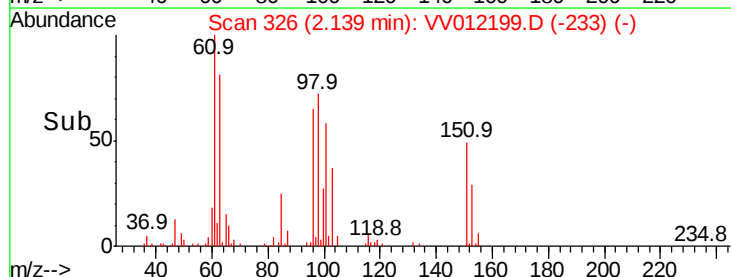
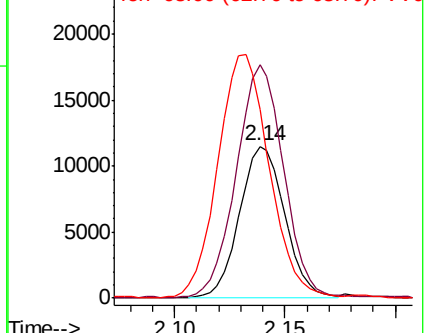
Ion	Ratio	Lower	Upper
96	100		
61	153.9	115.9	215.3
63	124.2	90.0	167.2

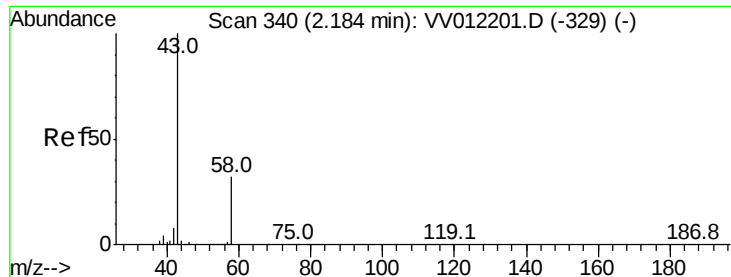


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 22.705 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

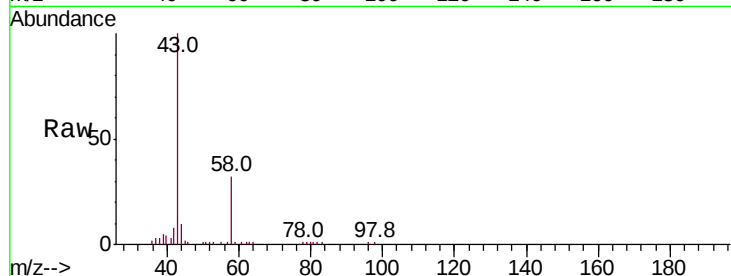
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 32929

Ion Ratio Lower Upper

43 100

58 33.2 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VV012201.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV012201.D (-329) (-)

2.18

25000

20000

15000

10000

5000

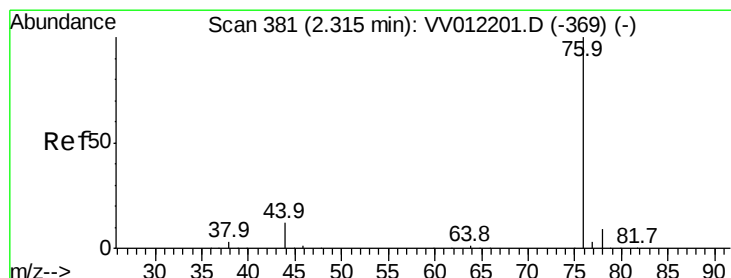
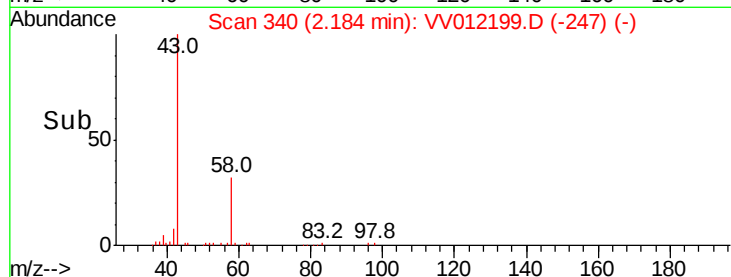
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Time-->

2.15

2.20

2.25



#14

Carbon disulfide

Concen: 7.035 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012199.D

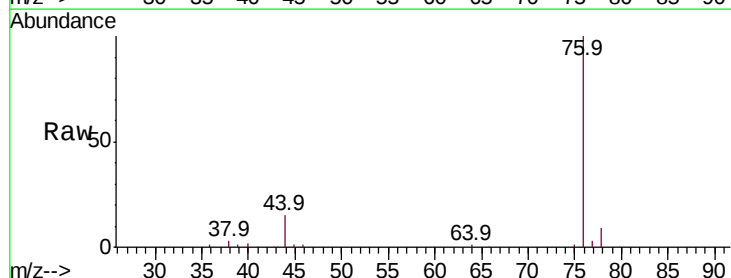
Acq: 12 Aug 2019 10:47

Tgt Ion: 76 Resp: 53351

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV012201.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV012201.D (-369) (-)

2.32

40000

30000

20000

10000

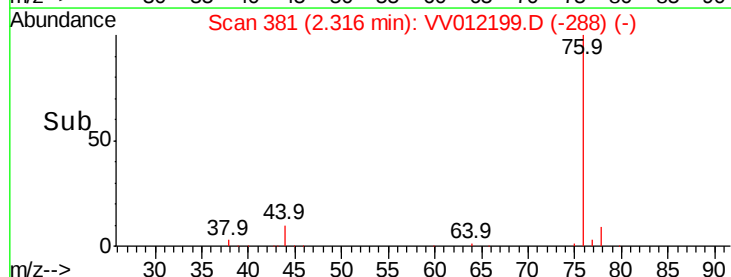
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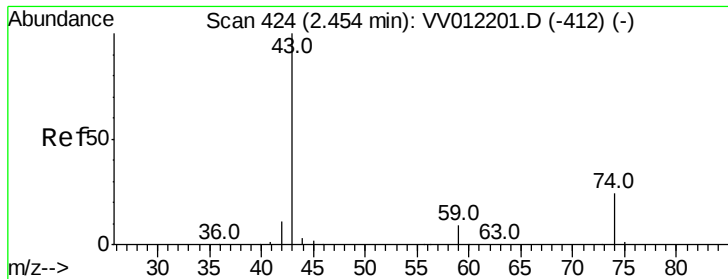
Time-->

2.25

2.30

2.35

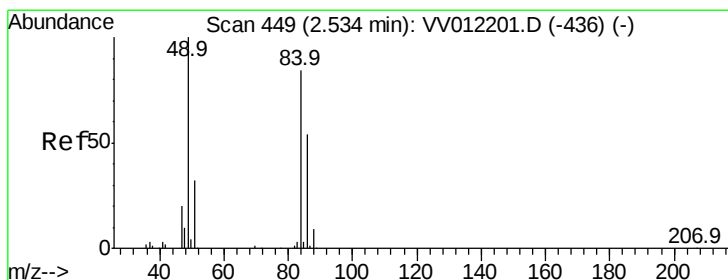
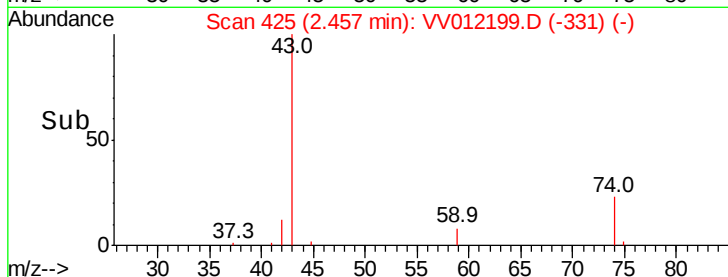
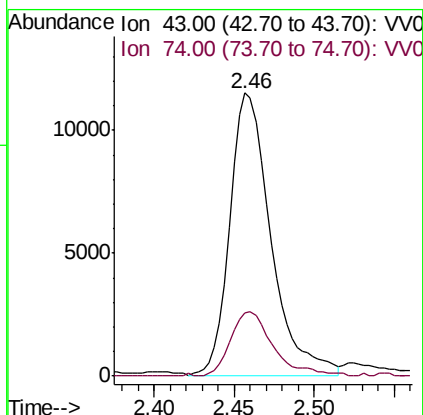
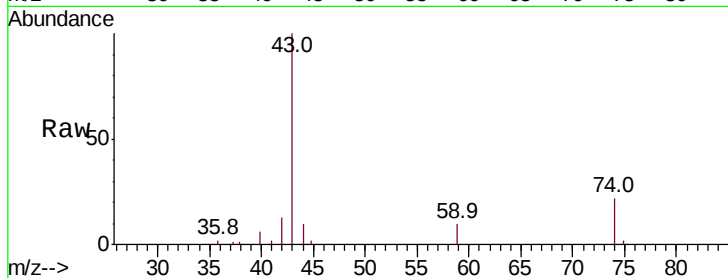




#15
Methvl Acetate
Concen: 7.169 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

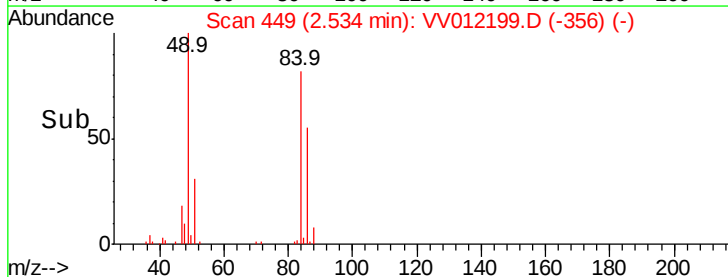
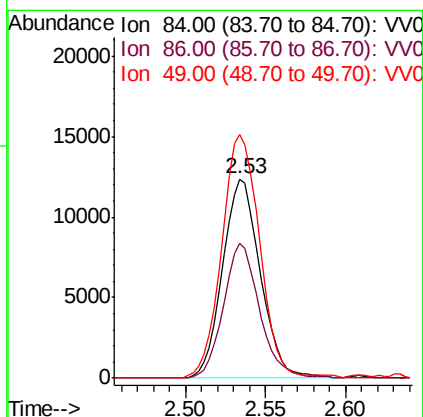
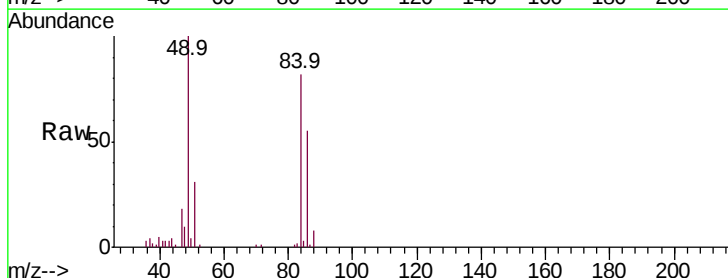
Instrument :
MSVOA_V
ClientSampleId :

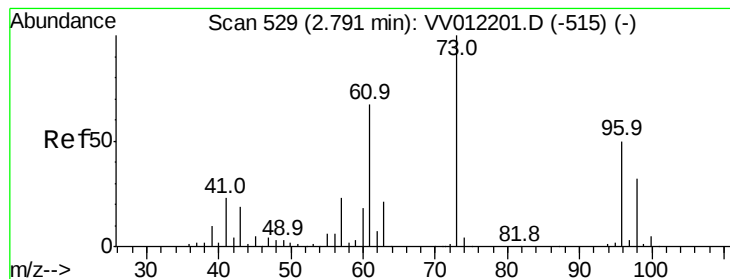
Tot Ion: 43 Resp: 20286
Ion Ratio Lower Upper
43 100
74 23.7 19.4 29.0



#16
Methylene chloride
Concen: 6.292 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Tgt Ion: 84 Resp: 19920
Ion Ratio Lower Upper
84 100
86 67.3 44.9 83.5
49 122.2 83.7 155.5





#17

trans-1,2-Dichloroethene

Concen: 6.378 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Instrument :
MSVOA_V
ClientSampled :

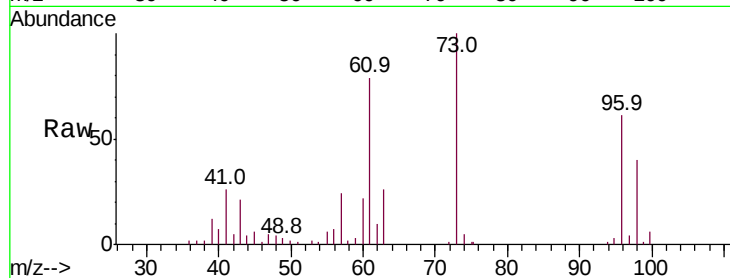
Tot Ion: 96 Resp: 19096

Ion Ratio Lower Upper

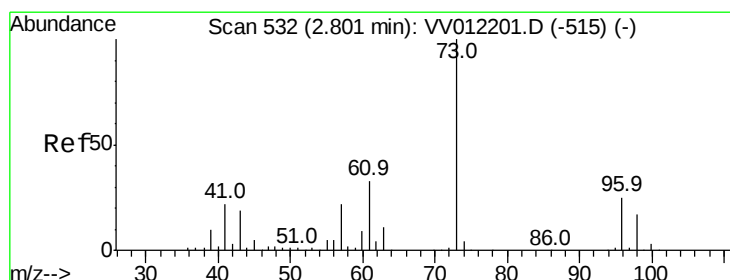
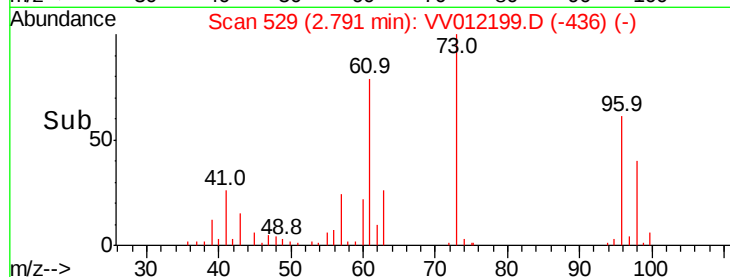
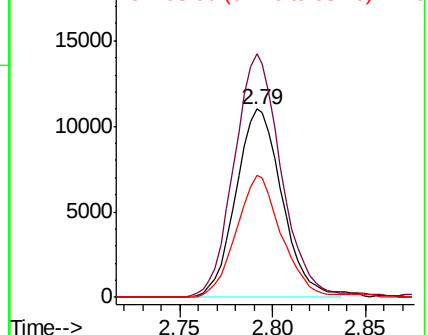
96 100

61 129.5 94.8 176.2

98 65.1 44.9 83.5



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: 5.556 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

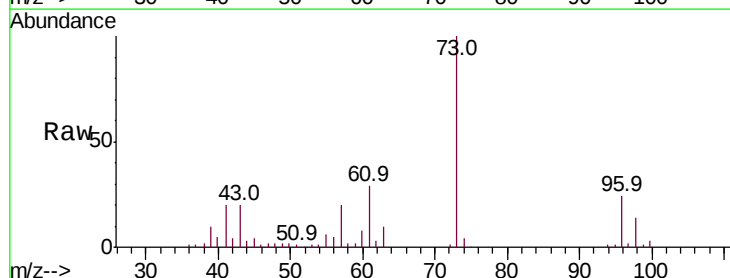
Tgt Ion: 73 Resp: 52697

Ion Ratio Lower Upper

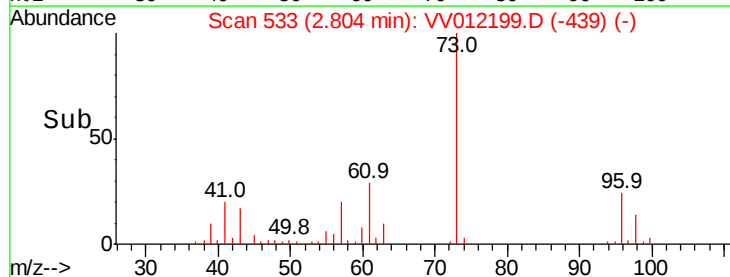
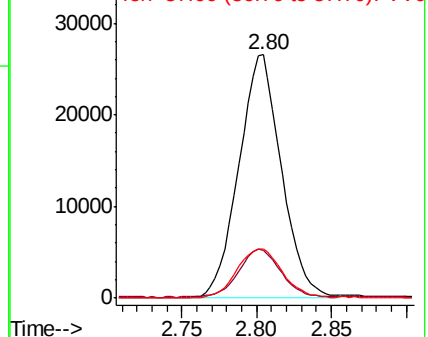
73 100

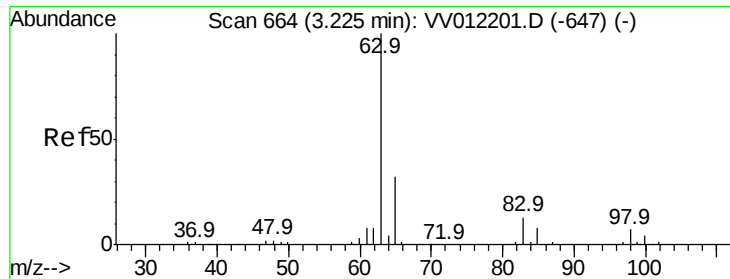
43 20.5 15.1 22.7

57 21.4 18.0 27.0



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

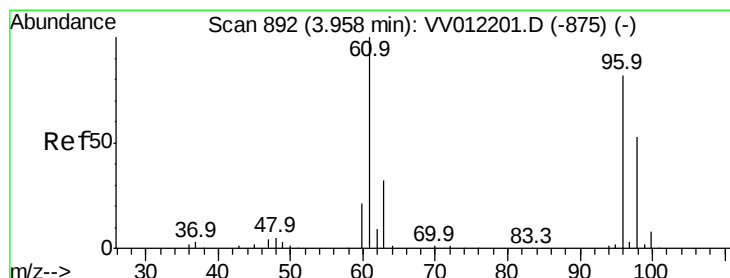
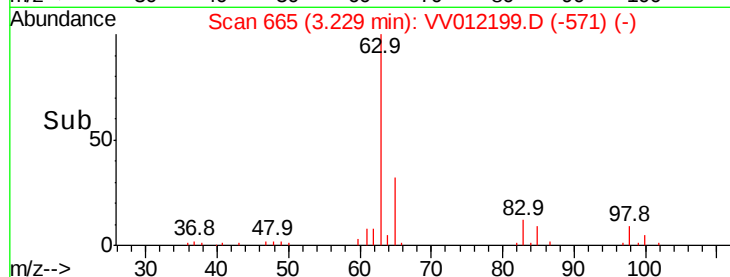
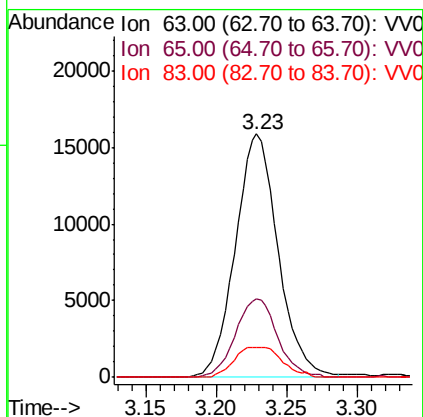
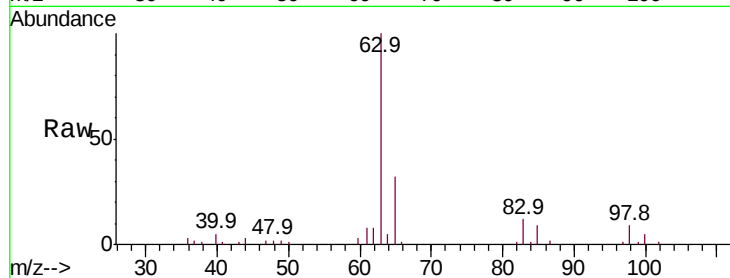




#19
 1,1-Dichloroethane
 Concen: 6.307 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

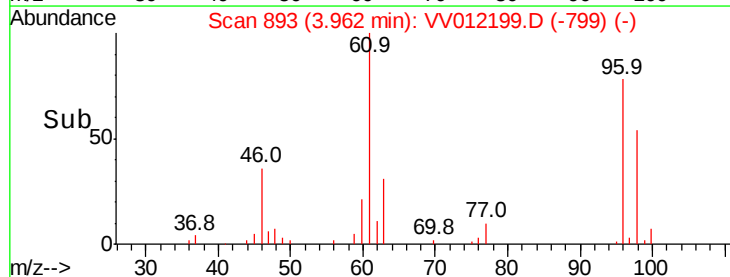
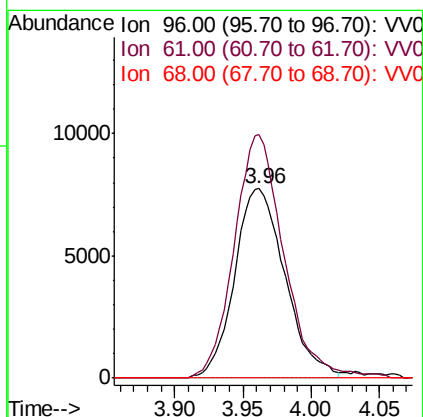
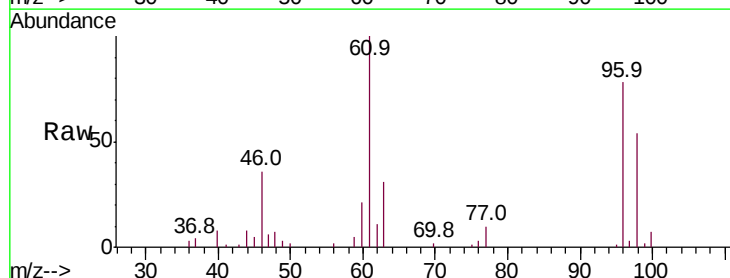
Instrument :
 MSVOA_V
 ClientSampleId :

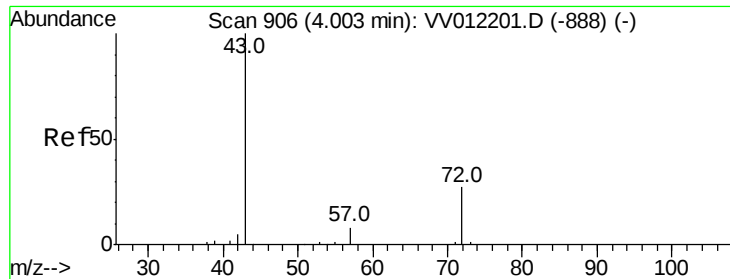
Tot Ion: 63 Resp: 33618
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.0 41.0
 83 12.3 9.2 17.0



#20
 cis-1,2-Dichloroethene
 Concen: 5.891 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

Tgt Ion: 96 Resp: 19943
 Ion Ratio Lower Upper
 96 100
 61 128.5 85.8 159.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 15.697 ug/L

RT: 4.01 min Scan# 909

Delta R.T. 0.01 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

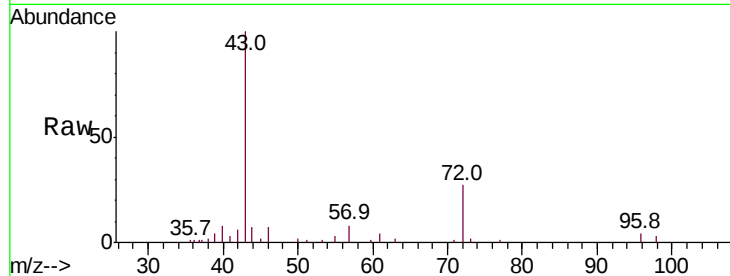
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 33009

Ion Ratio Lower Upper

43 100

72 23.6 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VV012201.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV012201.D (-888) (-)

4.01

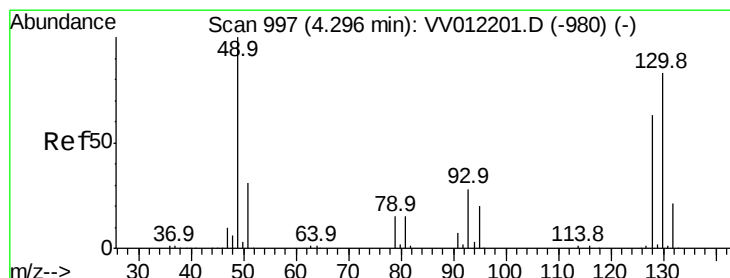
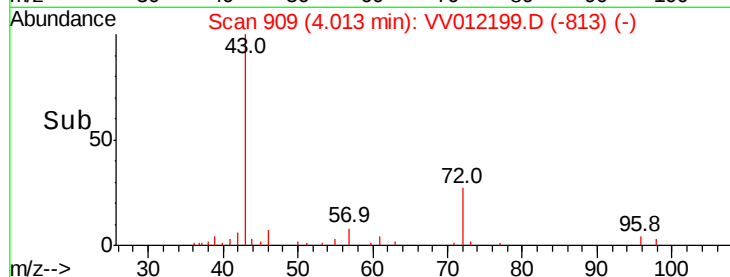
10000

5000

0

Time-->

3.95 4.00 4.05 4.10



#23

Bromochloromethane

Concen: 5.878 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Tgt Ion:128 Resp: 10760

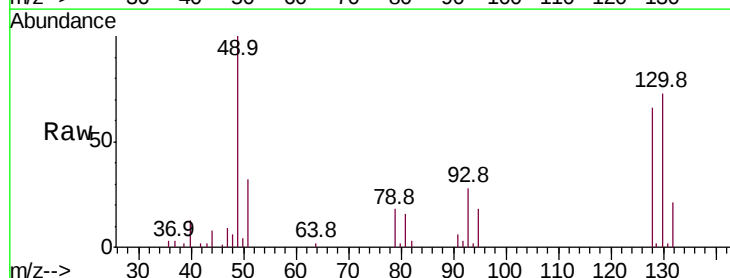
Ion Ratio Lower Upper

128 100

49 148.1 111.0 206.2

130 108.6 91.3 169.6

51 46.8 39.8 59.6



Abundance Ion 128.00 (127.70 to 128.70): VV012201.D (-980) (-)

Ion 49.00 (48.70 to 49.70): VV012201.D (-980) (-)

Ion 130.00 (129.70 to 130.70): VV012201.D (-980) (-)

Ion 51.00 (50.70 to 51.70): VV012201.D (-980) (-)

10000

8000

6000

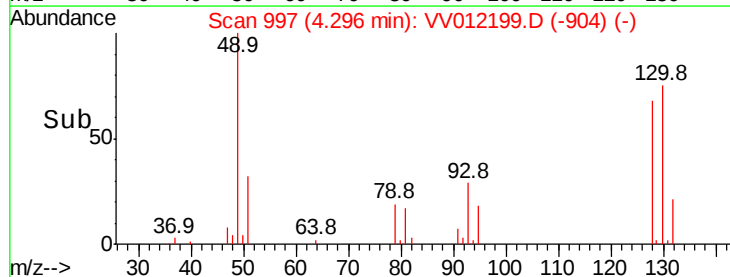
4000

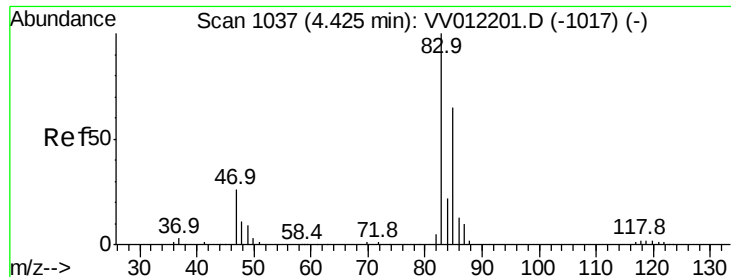
2000

0

Time-->

4.25 4.30 4.35

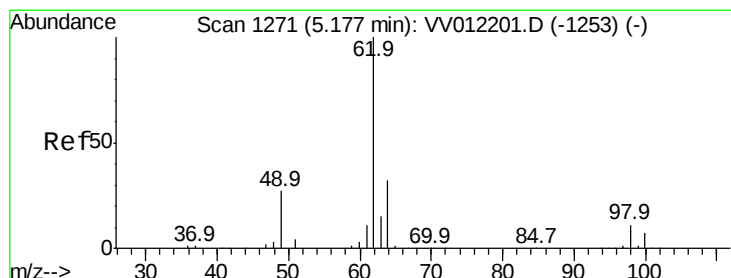
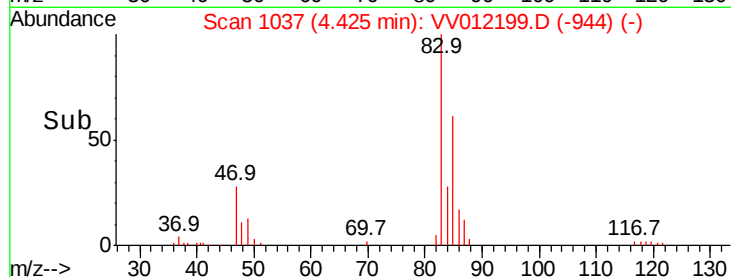
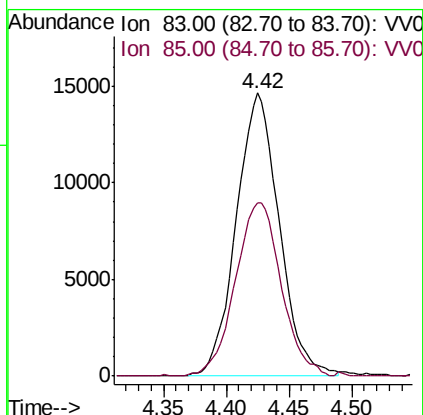
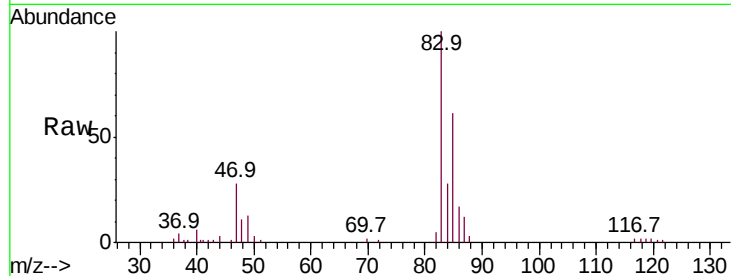




#25
Chloroform
Concen: 5.917 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

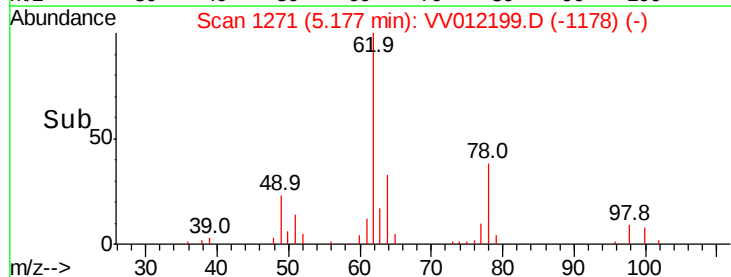
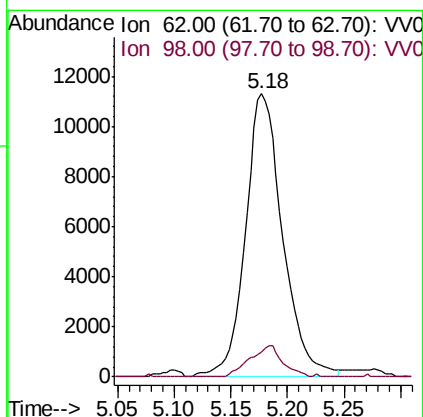
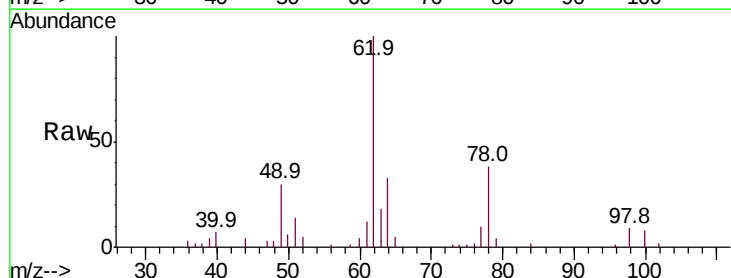
Instrument :
MSVOA_V
ClientSampleId :

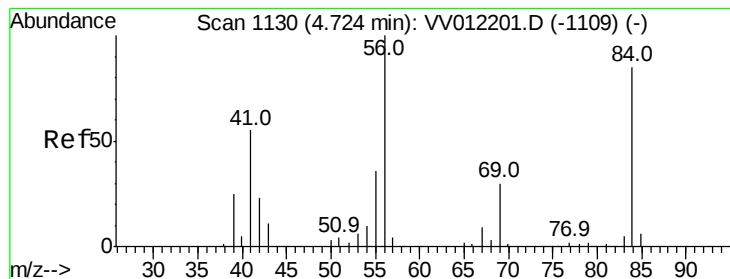
Tot Ion: 83 Resp: 34869
Ion Ratio Lower Upper
83 100
85 61.2 45.4 84.2



#27
1,2-Dichloroethane
Concen: 5.648 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Tgt Ion: 62 Resp: 25877
Ion Ratio Lower Upper
62 100
98 9.0 8.4 12.6





#29

Cyclohexane

Concen: 5.839 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Instrument :
MSVOA_V
ClientSampleId :

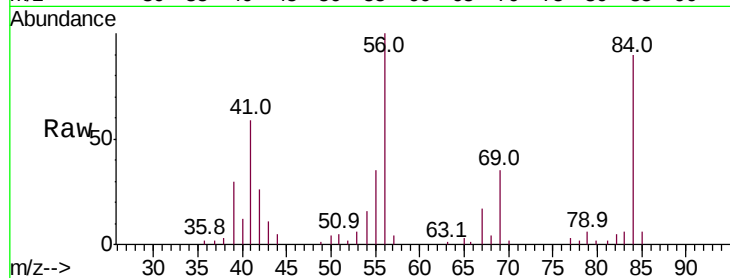
Tot Ion: 56 Resp: 27011

Ion Ratio Lower Upper

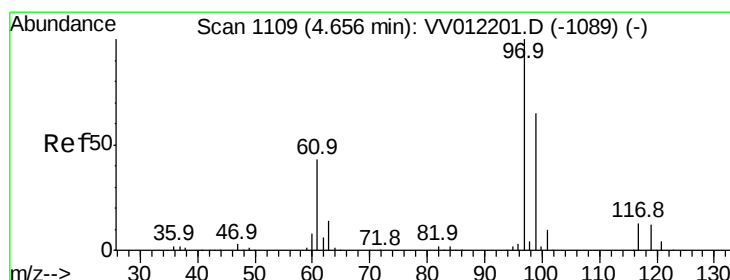
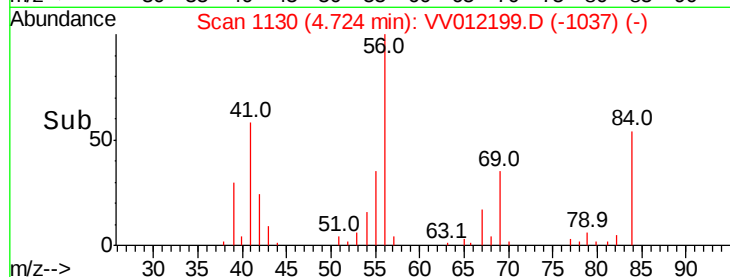
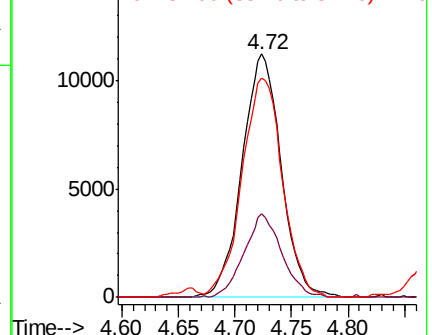
56 100

69 33.1 24.1 36.1

84 93.5 70.3 105.5



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: 5.447 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

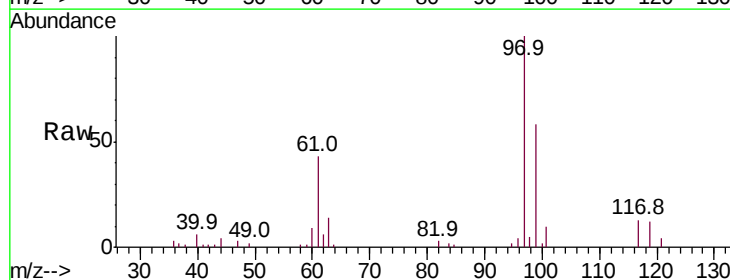
Tgt Ion: 97 Resp: 29643

Ion Ratio Lower Upper

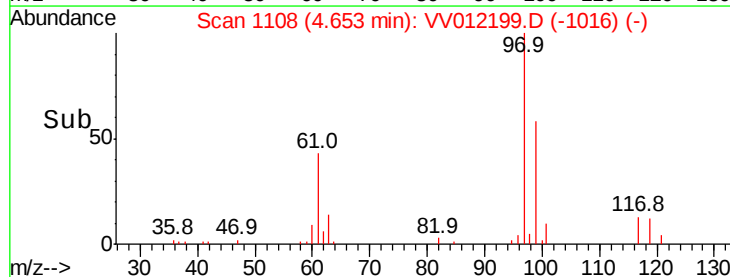
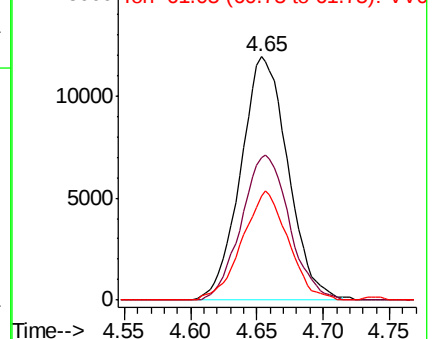
97 100

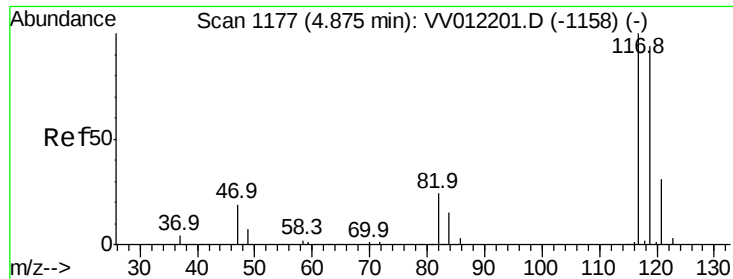
99 60.1 51.4 77.2

61 43.6 34.4 51.6



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: 5.170 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

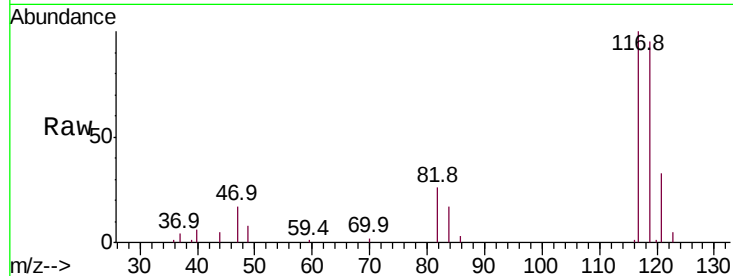
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:117 Resp: 26118

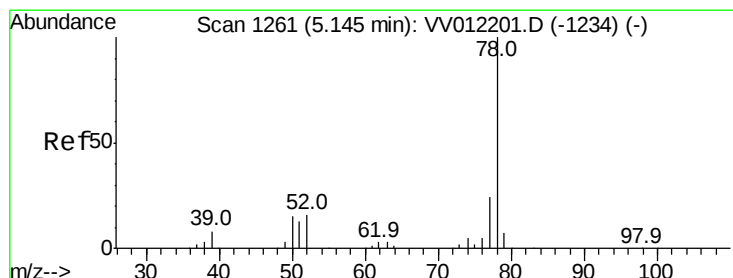
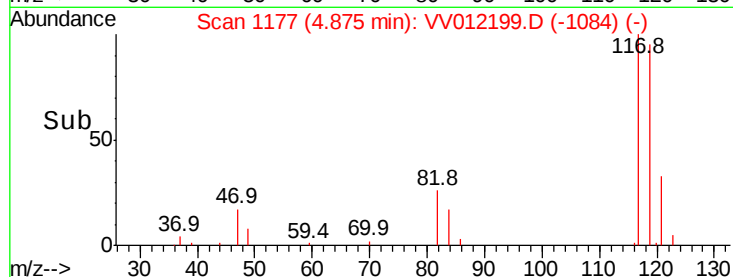
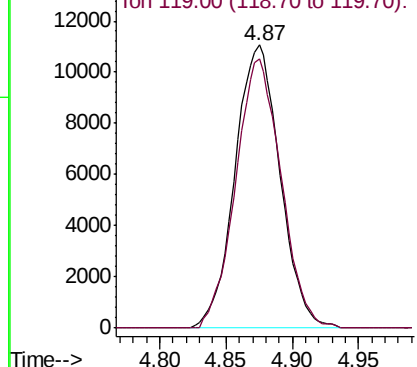
Ion Ratio Lower Upper

117 100

119 95.5 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 5.975 ug/L

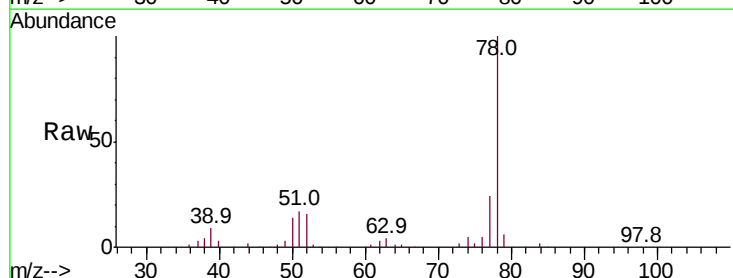
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

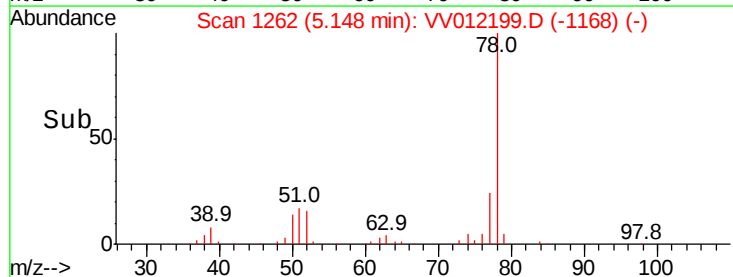
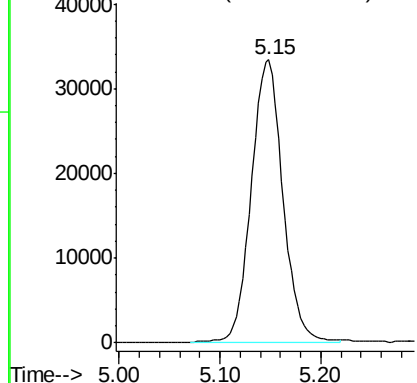
Lab File: VV012199.D

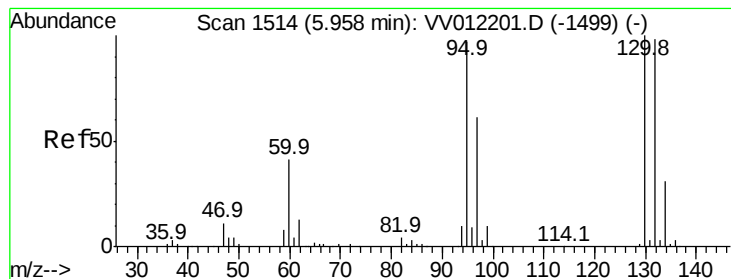
Acq: 12 Aug 2019 10:47

Tgt Ion: 78 Resp: 72970



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 6.306 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 20719

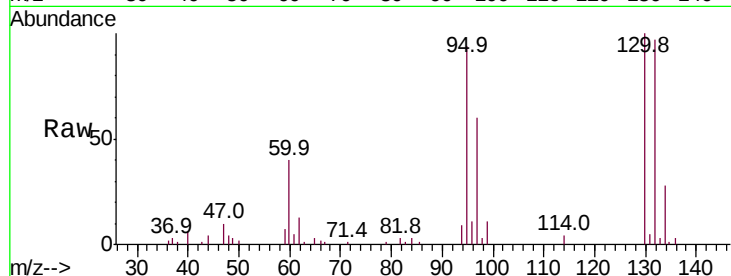
Ion Ratio Lower Upper

95 100

97 64.2 44.3 82.3

132 103.1 70.7 131.3

130 106.5 72.3 134.3

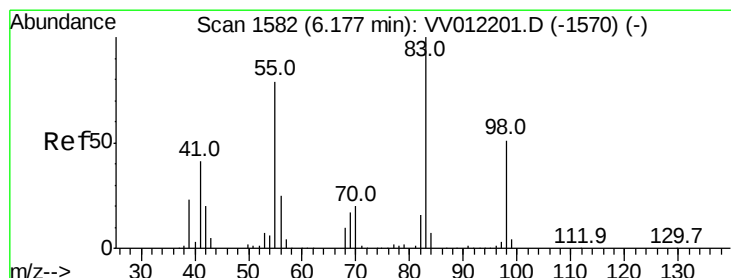
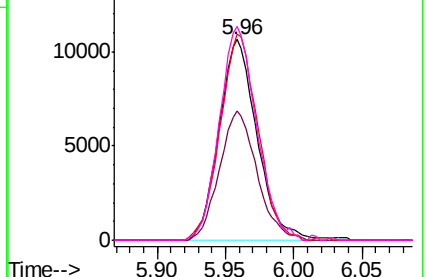
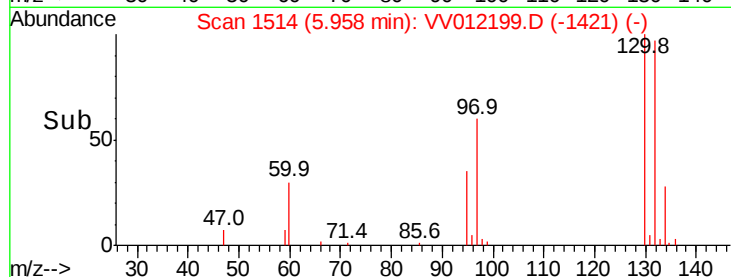


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 5.609 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

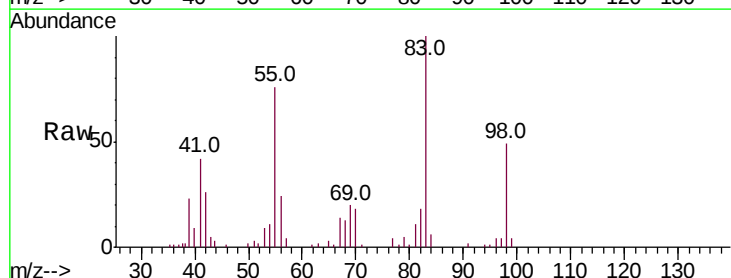
Tgt Ion: 83 Resp: 29459

Ion Ratio Lower Upper

83 100

55 79.6 60.7 91.1

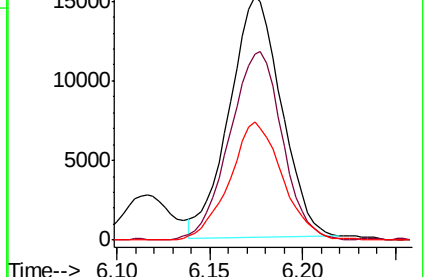
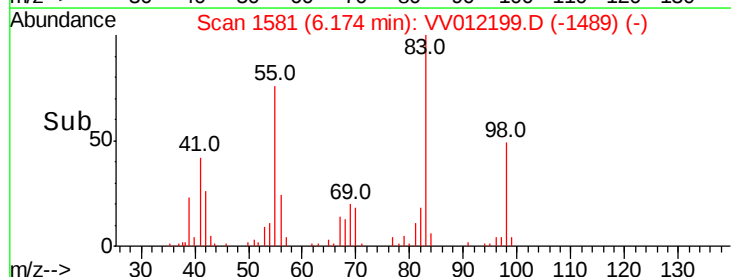
98 50.0 40.1 60.1

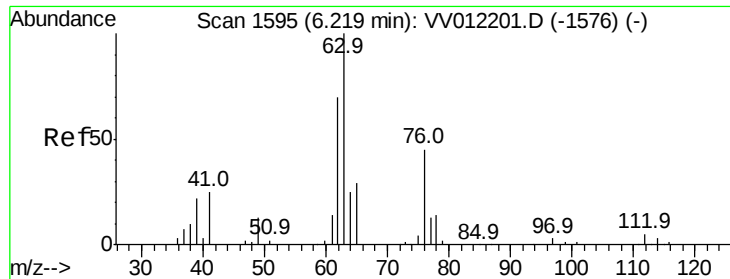


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

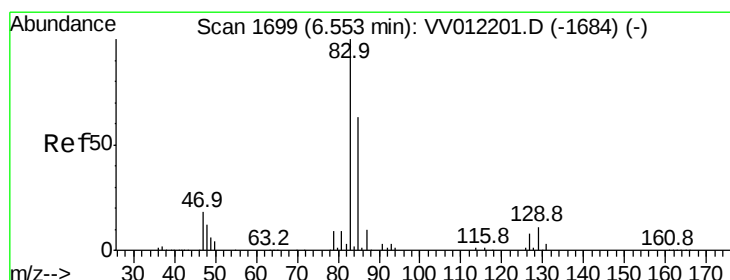
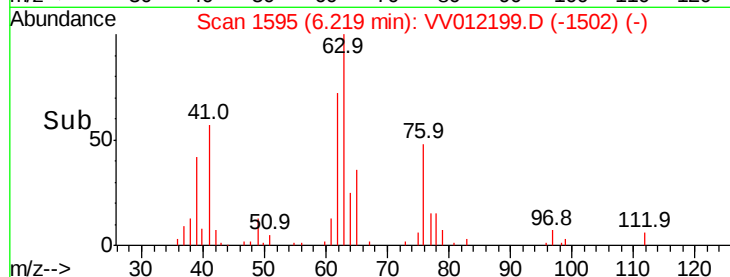
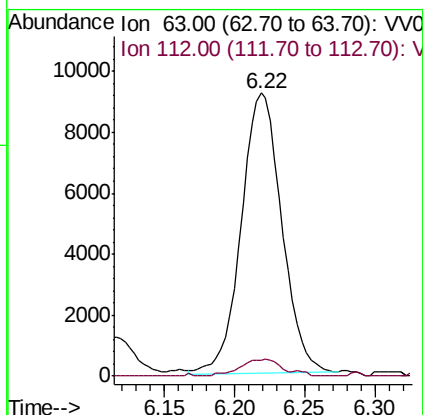
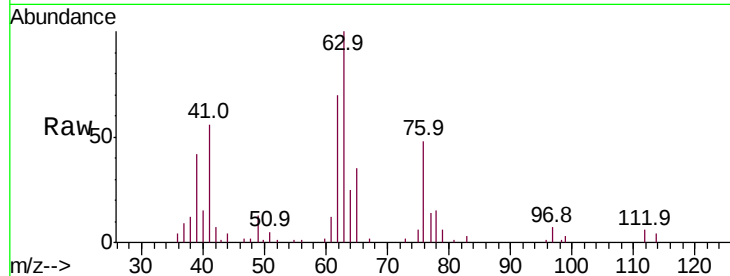




#37
 1,2-Dichloropropane
 Concen: 6.212 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

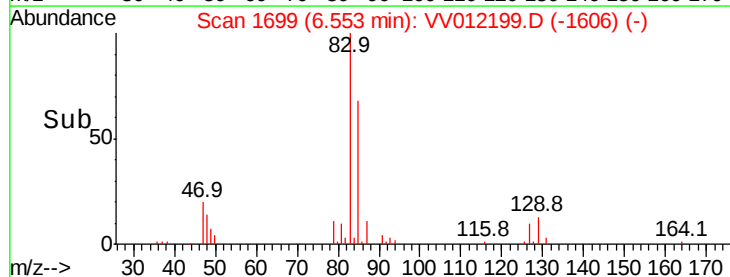
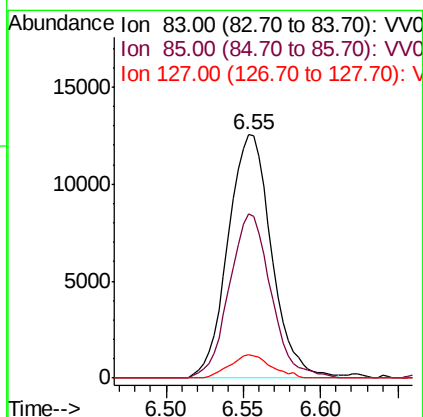
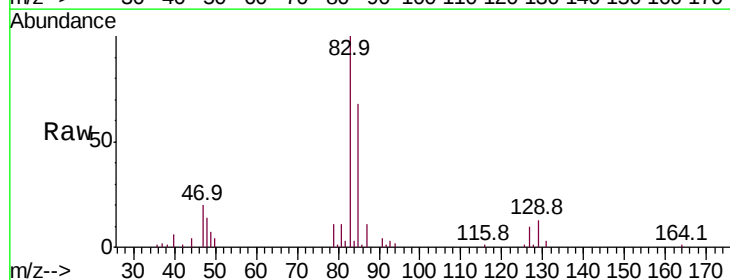
Instrument :
 MSVOA_V
 ClientSampled :

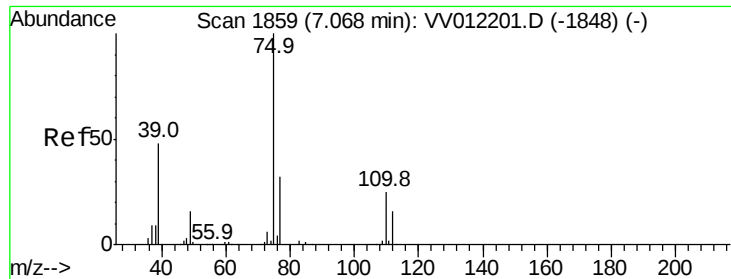
Tot Ion: 63 Resp: 18410
 Ion Ratio Lower Upper
 63 100
 112 4.6 4.0 6.0



#38
 Bromodichloromethane
 Concen: 5.477 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

Tgt Ion: 83 Resp: 24534
 Ion Ratio Lower Upper
 83 100
 85 67.6 44.2 82.0
 127 10.7 6.7 10.1#

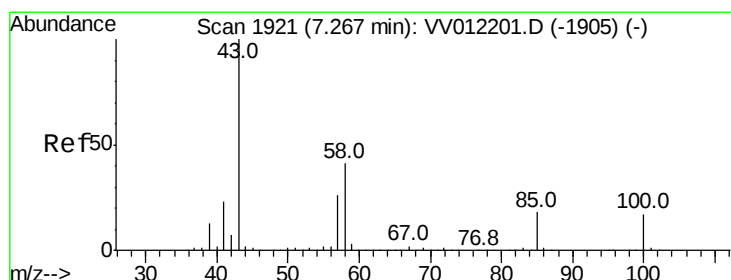
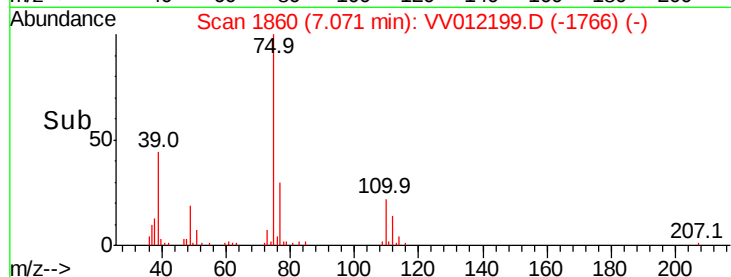
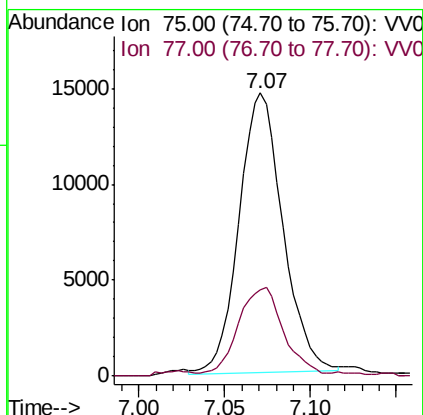
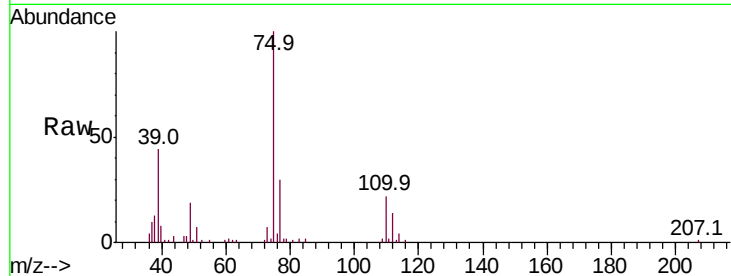




#39
 cis-1,3-Dichloropropene
 Concen: 5.151 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

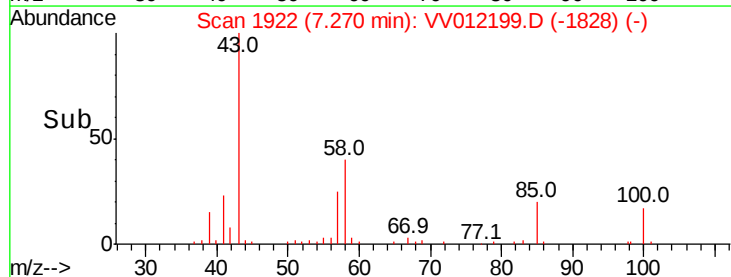
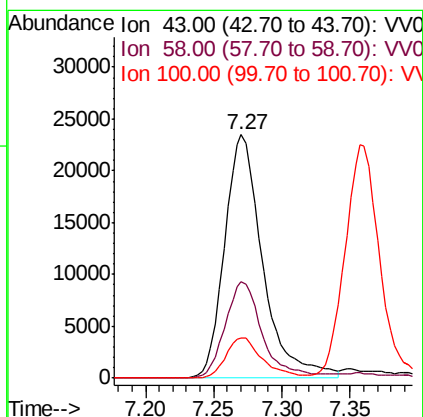
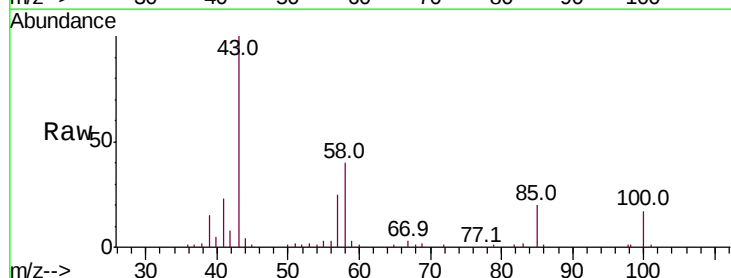
Instrument :
 MSVOA_V
 ClientSampleId :

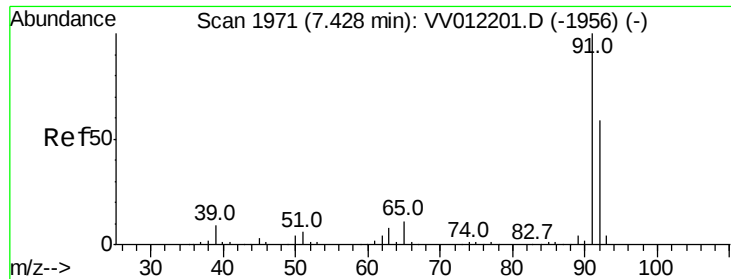
Tot Ion: 75 Resp: 25757
 Ion Ratio Lower Upper
 75 100
 77 30.5 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 11.837 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

Tgt Ion: 43 Resp: 45576
 Ion Ratio Lower Upper
 43 100
 58 38.5 32.3 48.5
 100 16.0 13.2 19.8





#42

Toluene

Concen: 5.561 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

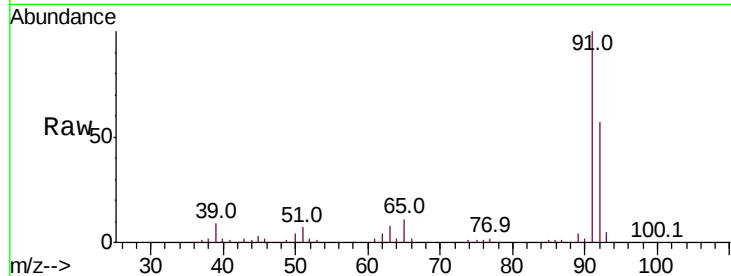
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 74724

Ion Ratio Lower Upper

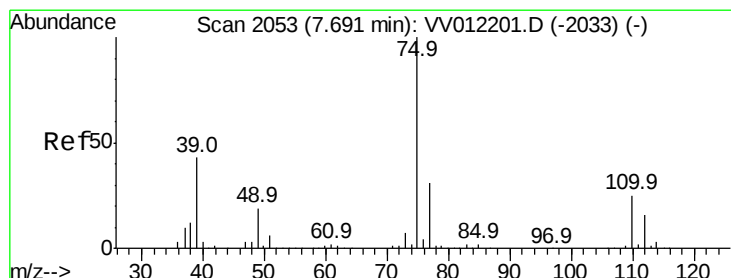
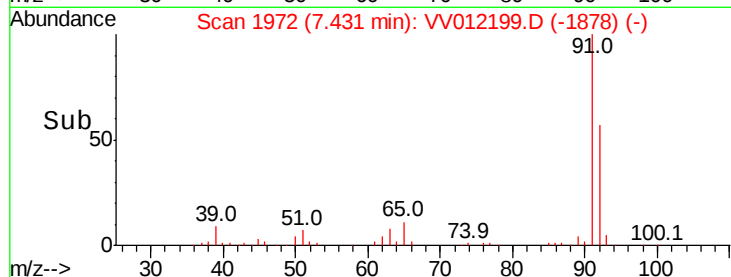
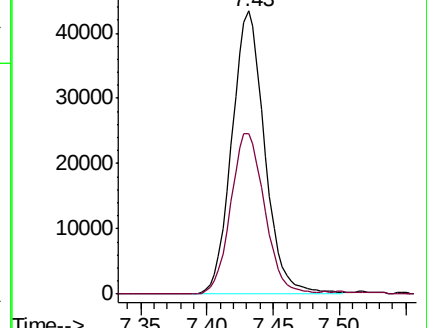
91 100

92 56.9 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV012201.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV012201.D (-1956) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.406 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012199.D

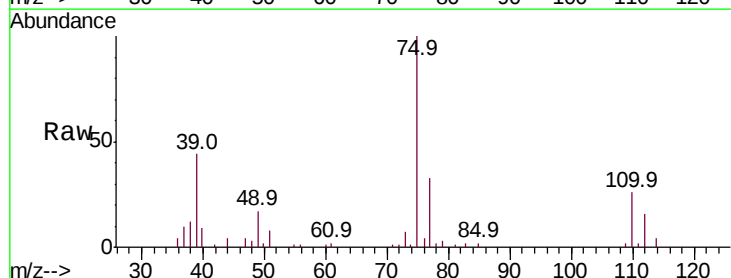
Acq: 12 Aug 2019 10:47

Tgt Ion: 75 Resp: 24530

Ion Ratio Lower Upper

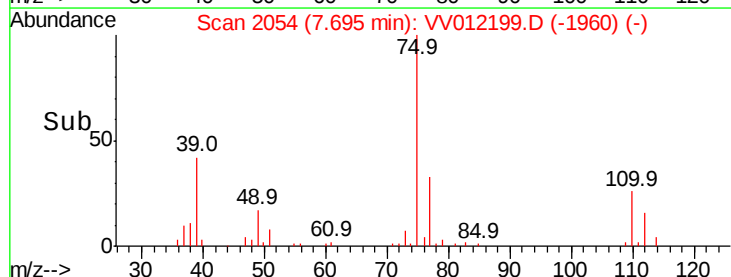
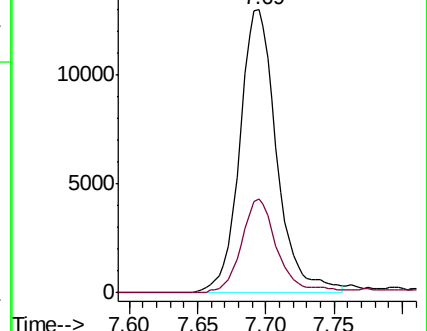
75 100

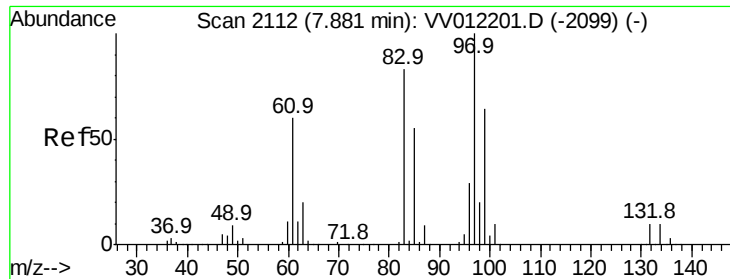
77 33.1 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV012201.D (-2033) (-)

Ion 77.00 (76.70 to 77.70): VV012201.D (-2033) (-)

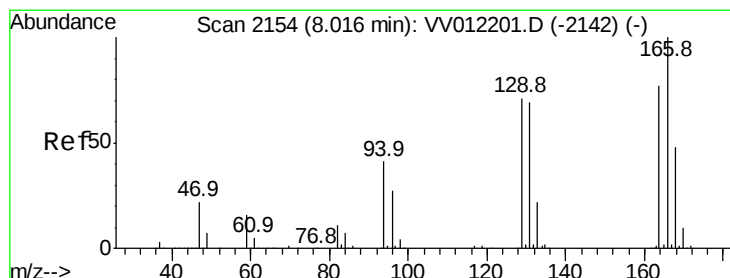
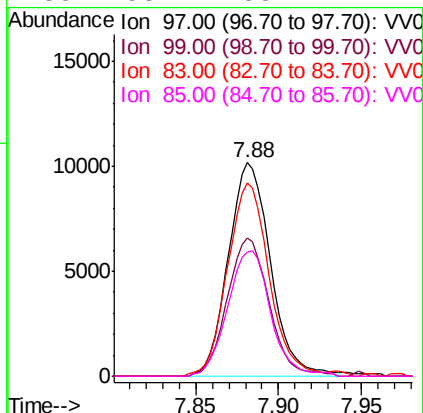
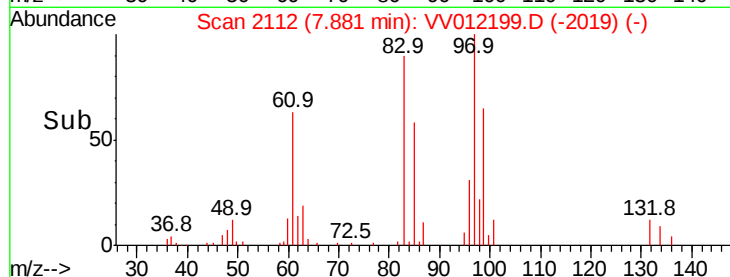
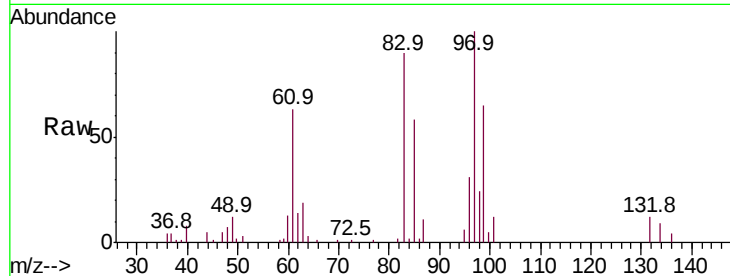




#45
1,1,2-Trichloroethane
Concen: 5.622 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

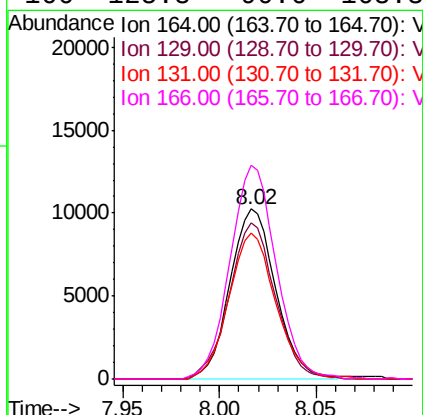
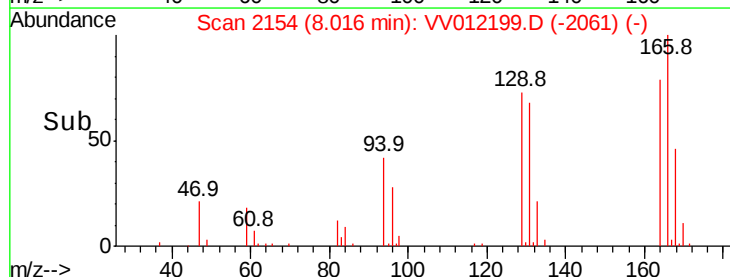
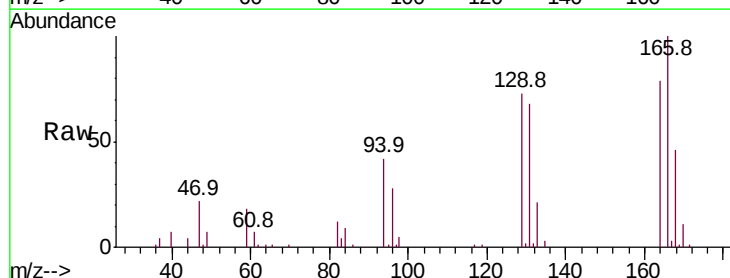
Instrument :
MSVOA_V
ClientSampleId :

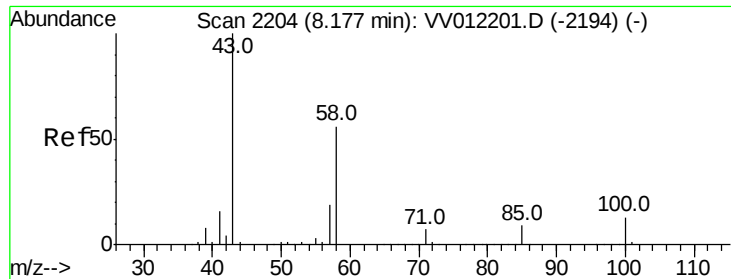
Tot Ion:	97	Resp:	17993
Ion	Ratio	Lower	Upper
97	100		
99	64.8	44.5	82.7
83	90.3	57.8	107.4
85	58.2	38.4	71.4



#46
Tetrachloroethene
Concen: 5.458 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Tgt Ion:	164	Resp:	16890
Ion	Ratio	Lower	Upper
164	100		
129	91.7	64.1	119.1
131	85.7	62.4	115.8
166	125.8	90.6	168.3

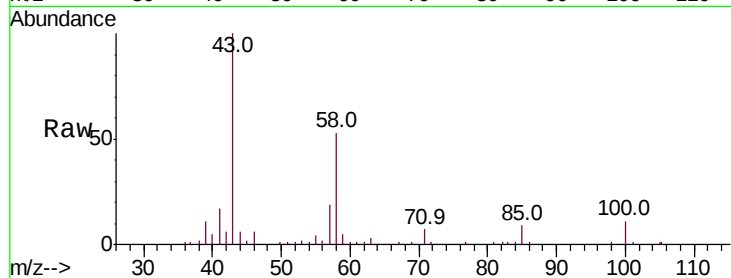




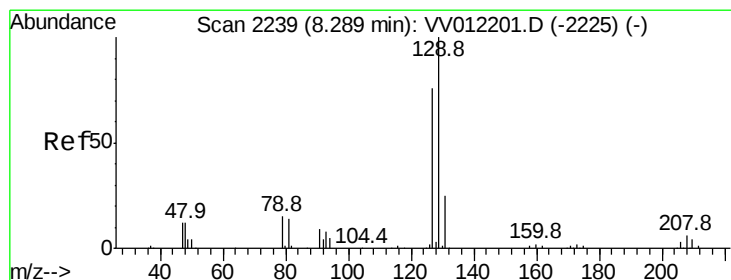
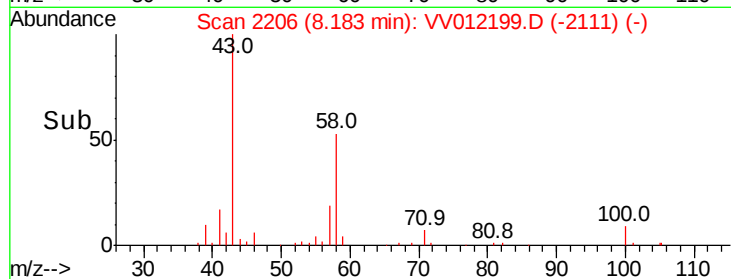
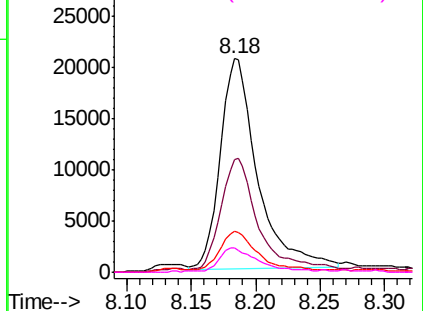
#48
2-Hexanone
Concen: 13.767 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.01 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 40806
Ion Ratio Lower Upper
43 100
58 51.4 43.5 65.3
57 18.1 15.1 22.7
100 12.3 10.4 15.6

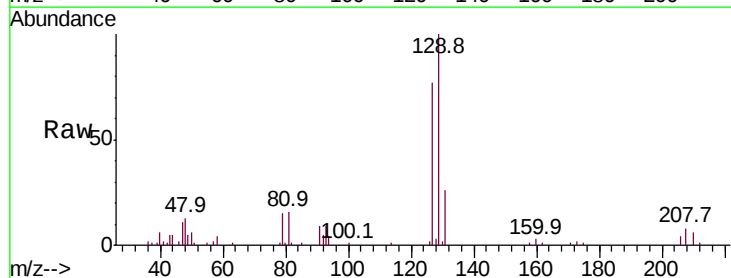


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

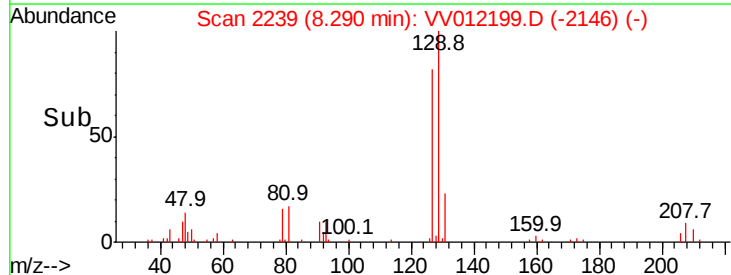
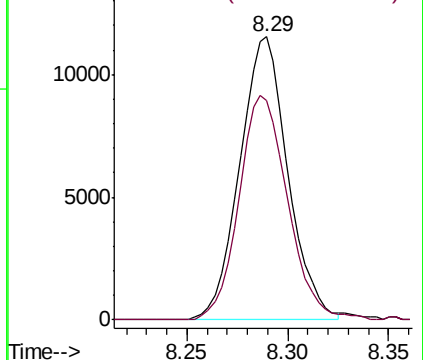


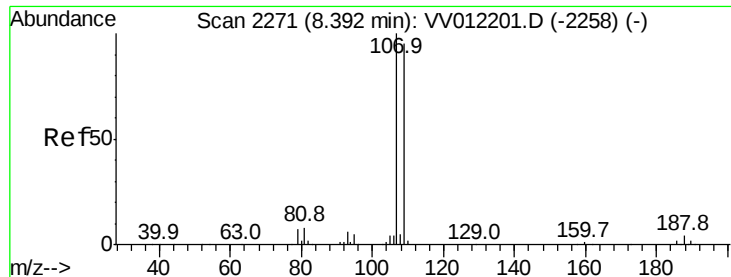
#49
Dibromochloromethane
Concen: 4.845 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Tgt Ion: 129 Resp: 19257
Ion Ratio Lower Upper
129 100
127 77.3 53.3 98.9



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

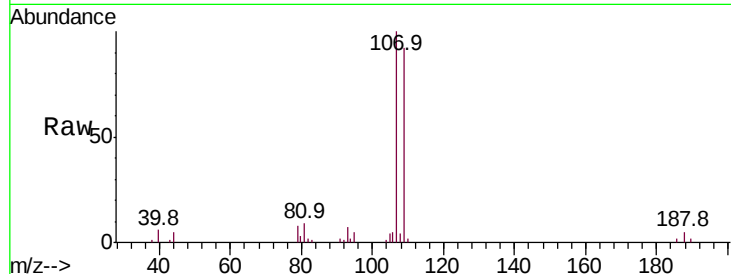




#50
1,2-Dibromoethane
Concen: 5.424 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Instrument :
MSVOA_V
ClientSampled :

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.3	66.4	123.4
188	5.1	3.0	4.6#

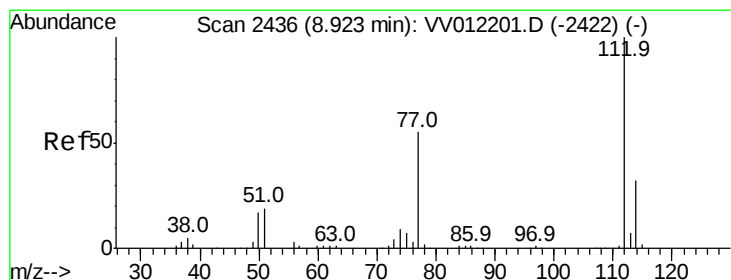
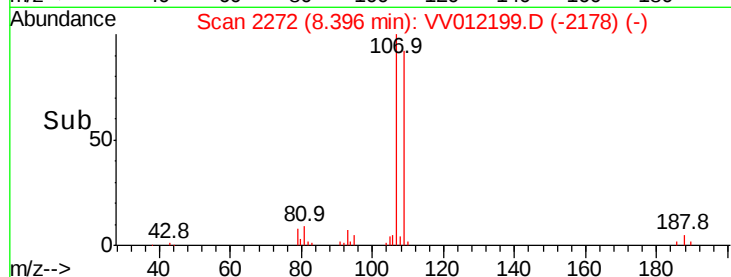
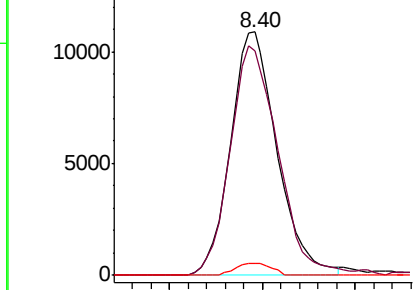


Abundance

Ion 107.00 (106.70 to 107.70): V

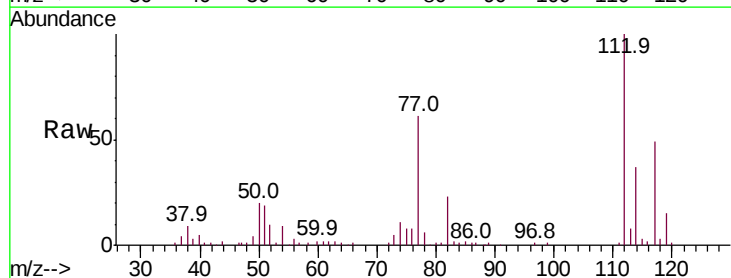
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 5.586 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	36.9	22.5	41.9
77	60.8	44.4	66.6

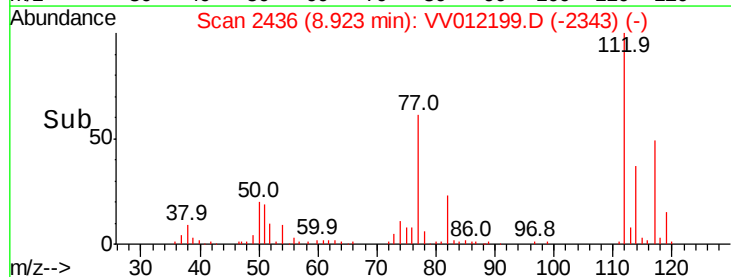
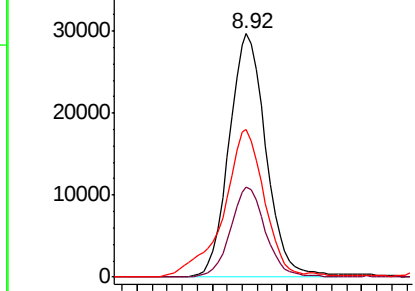


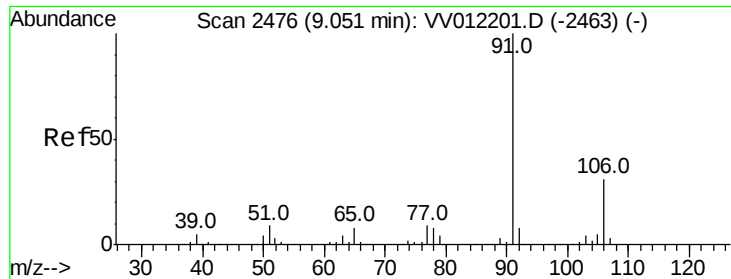
Abundance

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: 5.417 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Instrument :

MSVOA_V

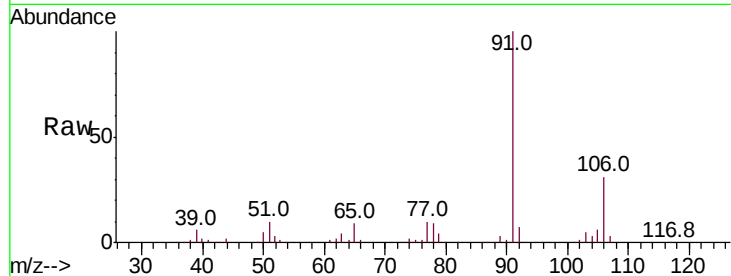
ClientSampled :

Tot Ion: 91 Resp: 81058

Ion Ratio Lower Upper

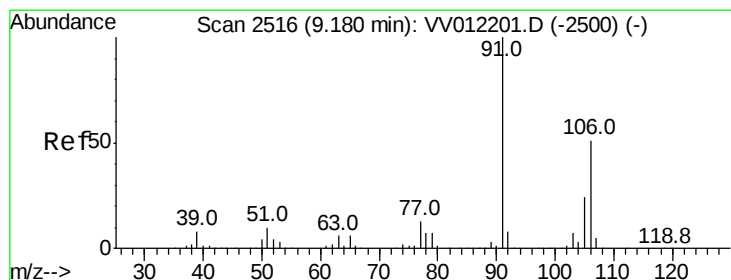
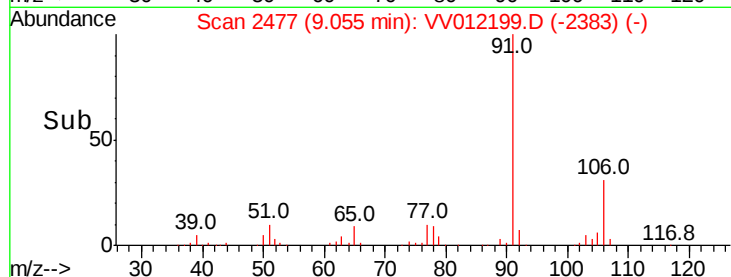
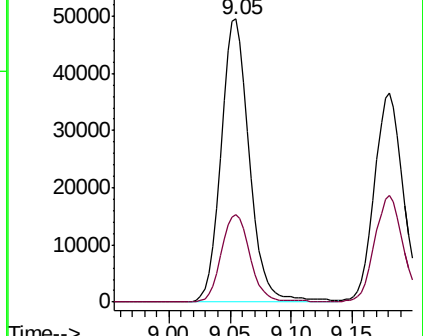
91 100

106 30.9 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV012201.D (-2463) (-)

Ion 106.00 (105.70 to 106.70): VV012201.D (-2463) (-)



#53

m,p-Xylene

Concen: 5.182 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012199.D

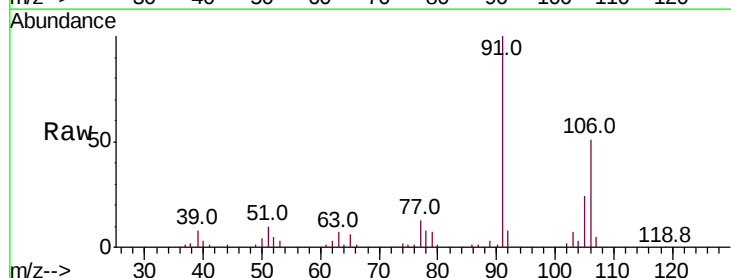
Acq: 12 Aug 2019 10:47

Tgt Ion: 106 Resp: 30603

Ion Ratio Lower Upper

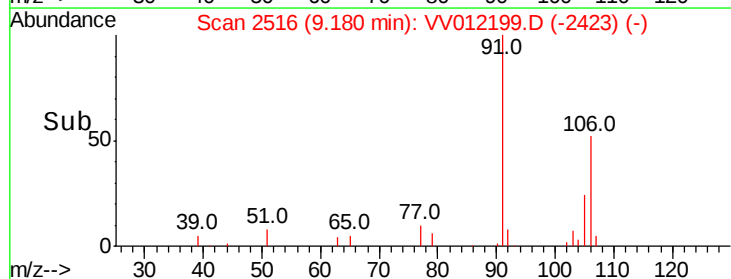
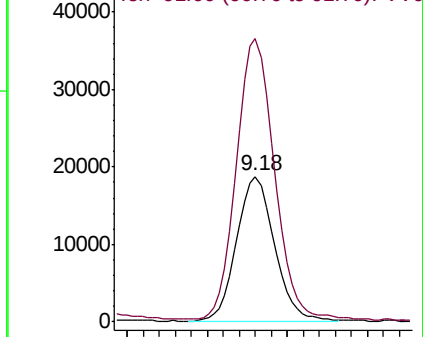
106 100

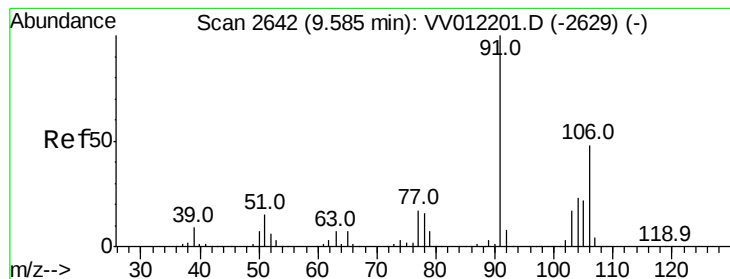
91 194.6 138.0 256.4



Abundance Ion 106.00 (105.70 to 106.70): VV012201.D (-2500) (-)

Ion 91.00 (90.70 to 91.70): VV012201.D (-2500) (-)





#54

o-xylene

Concen: 4.813 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

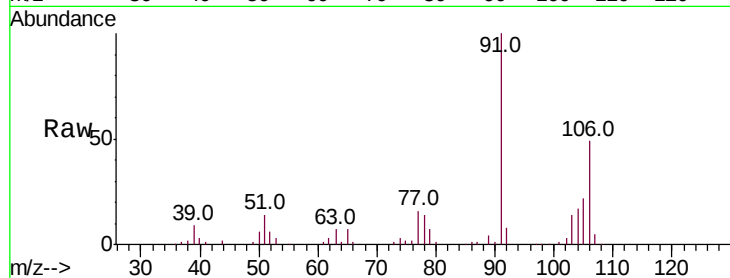
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 27923

Ion Ratio Lower Upper

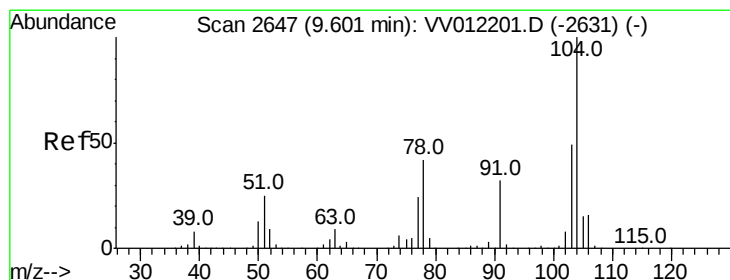
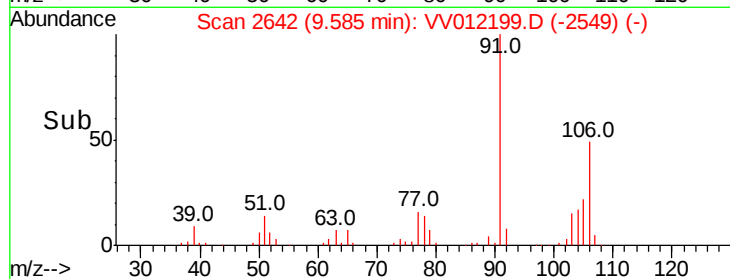
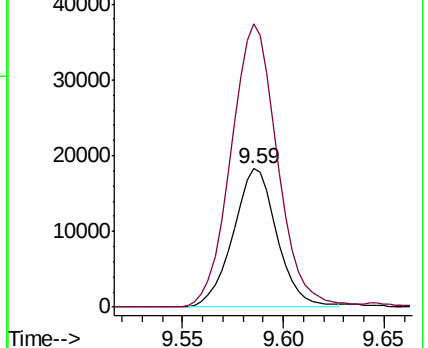
106 100

91 204.1 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 4.929 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012199.D

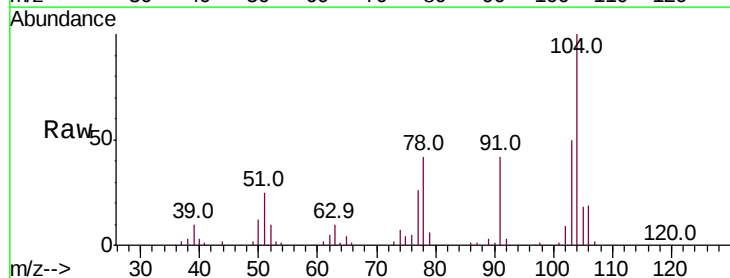
Acq: 12 Aug 2019 10:47

Tgt Ion:104 Resp: 48113

Ion Ratio Lower Upper

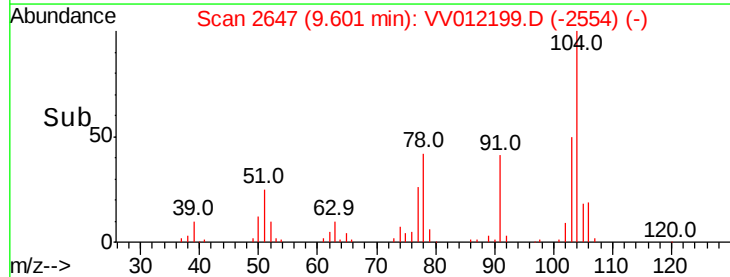
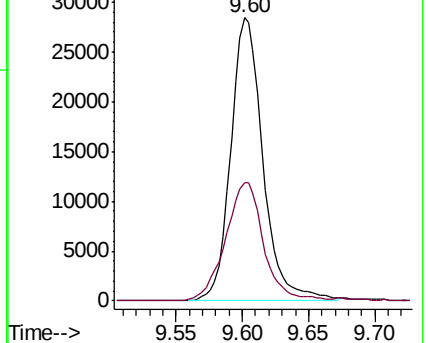
104 100

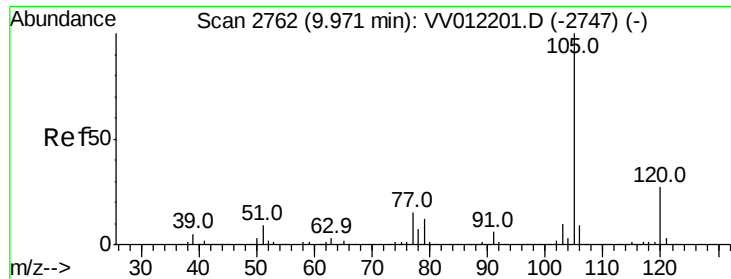
78 41.8 29.5 54.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

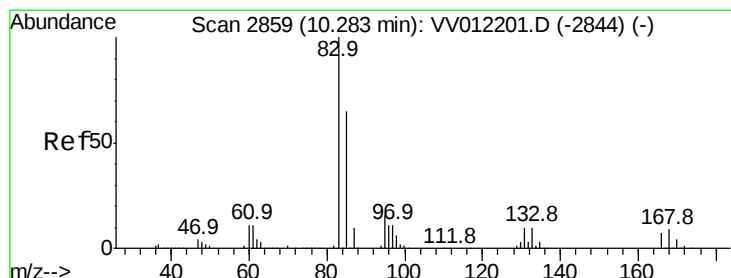
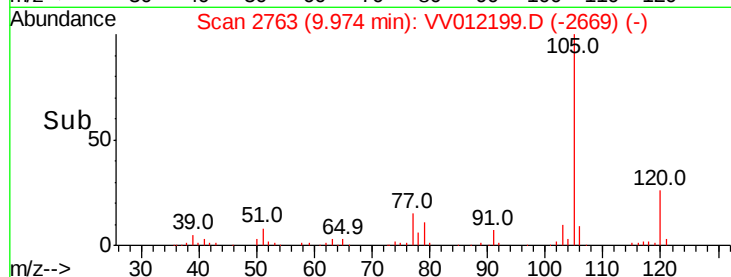
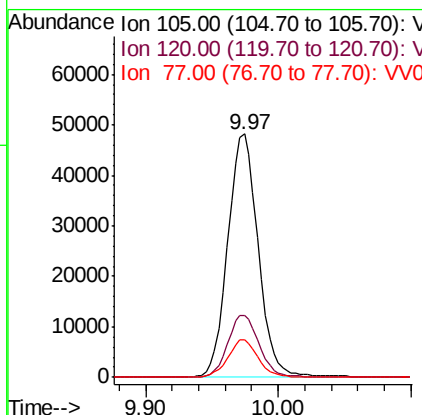
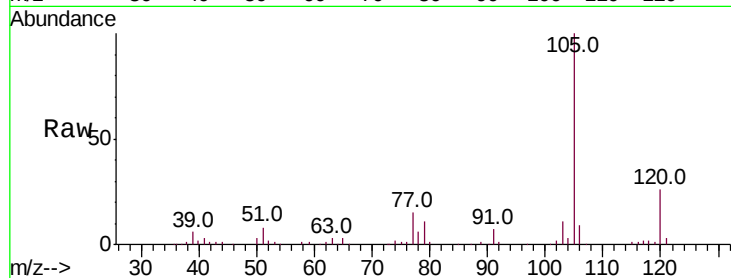




#56
Isopropylbenzene
Concen: 5.038 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

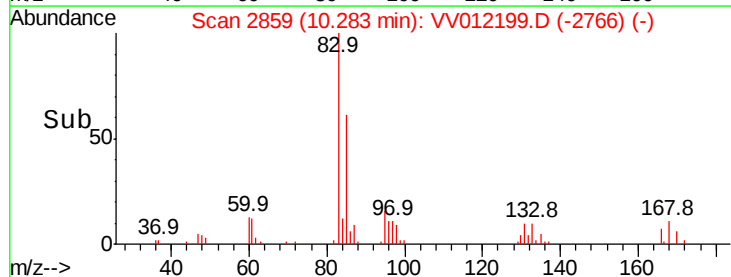
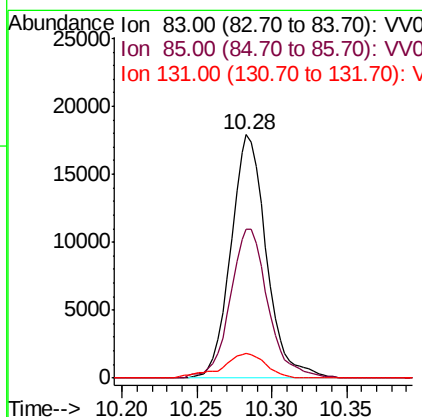
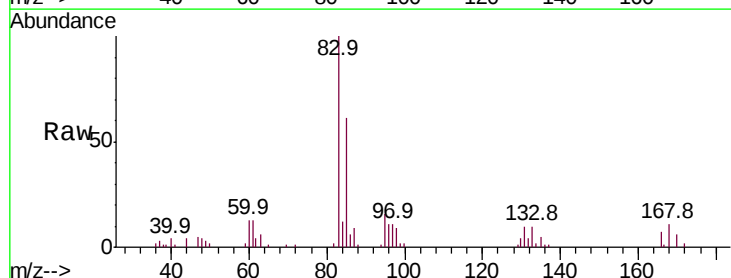
Instrument :
MSVOA_V
ClientSampleId :

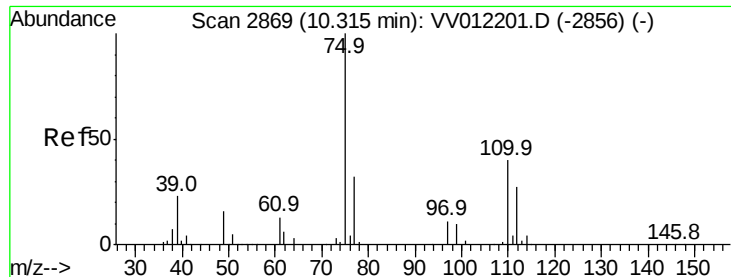
Tot Ion:	105	Resp:	76976
Ion	Ratio	Lower	Upper
105	100		
120	26.2	21.8	32.8
77	15.2	12.0	18.0



#58
1,1,2,2-Tetrachloroethane
Concen: 5.945 ug/L
RT: 10.28 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VV012199.D
Acq: 12 Aug 2019 10:47

Tgt Ion:	83	Resp:	29569
Ion	Ratio	Lower	Upper
83	100		
85	61.3	45.3	84.1
131	9.9	8.4	12.6

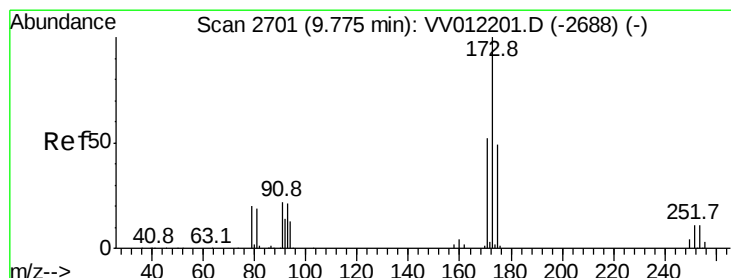
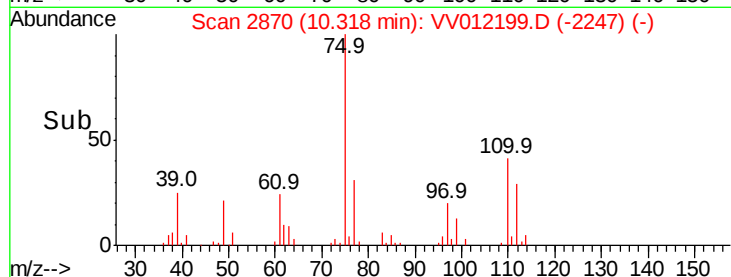
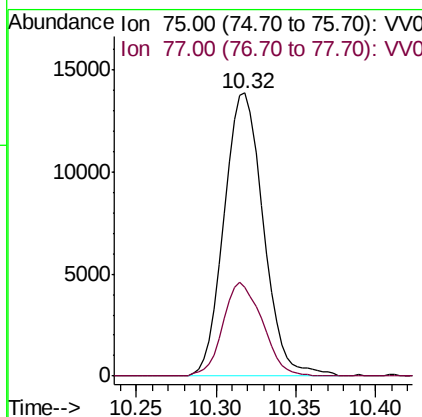
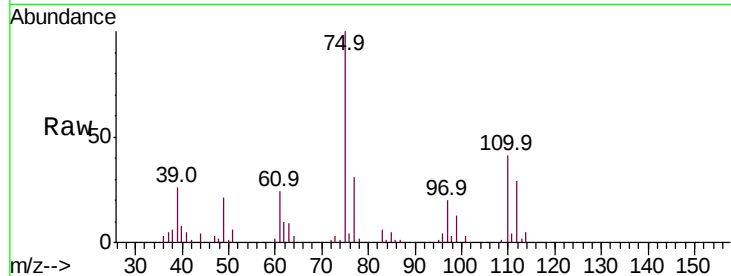




#59
 1,2,3-Trichloropropane
 Concen: 5.915 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

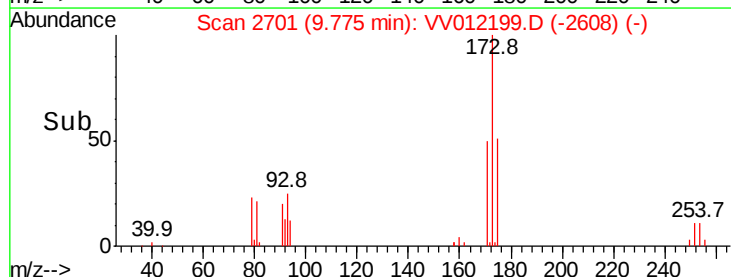
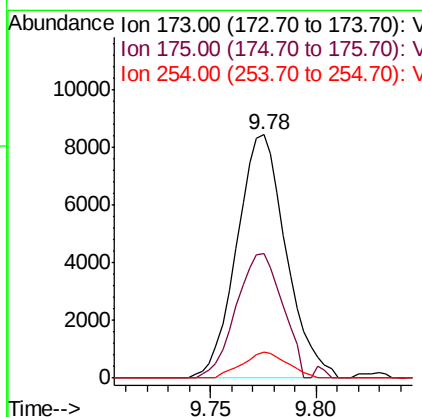
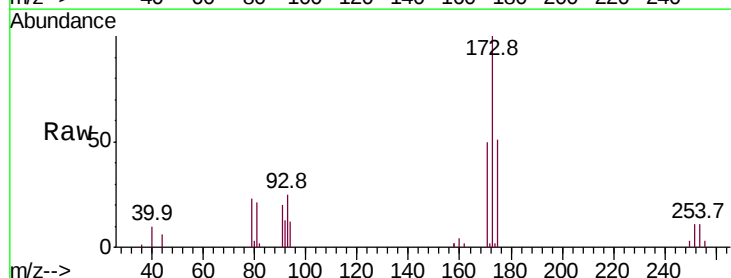
Instrument :
 MSVOA_V
 ClientSampled :

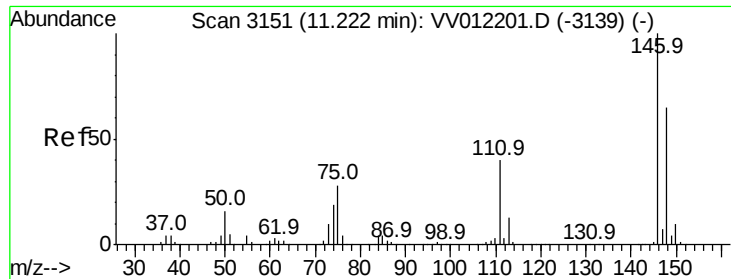
Tot Ion: 75 Resp: 23323
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.4 38.2



#61
 Bromoform
 Concen: 4.822 ug/L
 RT: 9.78 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

Tgt Ion: 173 Resp: 13728
 Ion Ratio Lower Upper
 173 100
 175 48.2 39.0 58.4
 254 9.8 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 5.885 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Instrument :

MSVOA_V

ClientSampleId :

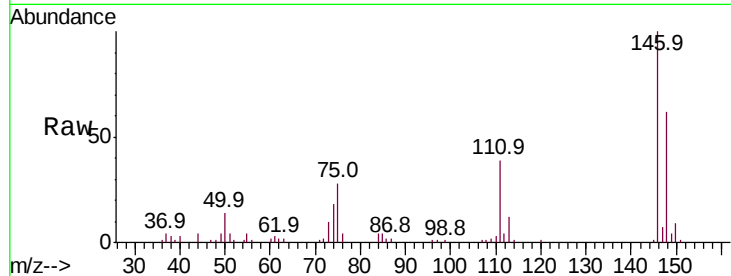
Tot Ion:146 Resp: 41079

Ion Ratio Lower Upper

146 100

111 38.8 27.7 51.5

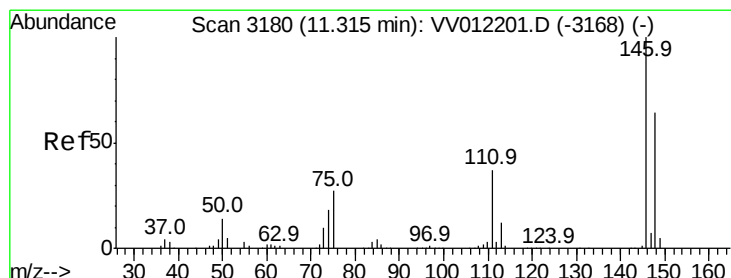
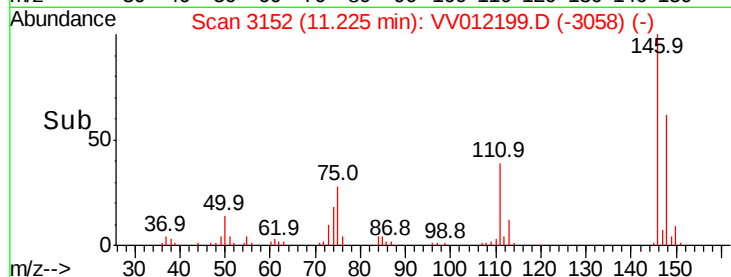
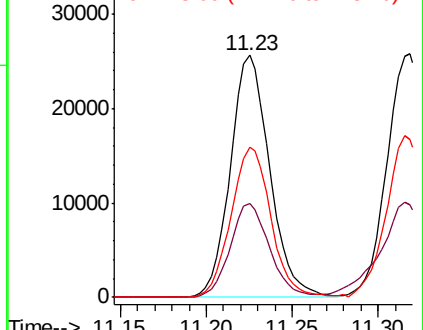
148 61.9 45.5 84.5



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: 6.185 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

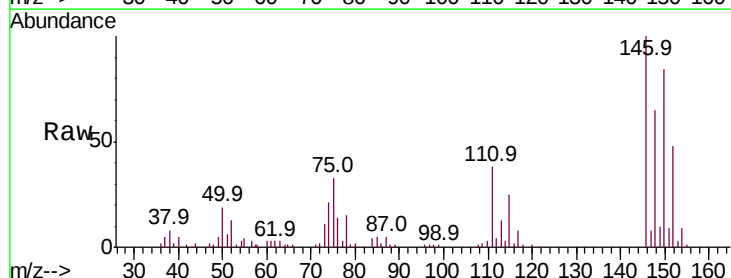
Tgt Ion:146 Resp: 43333

Ion Ratio Lower Upper

146 100

111 38.1 25.8 48.0

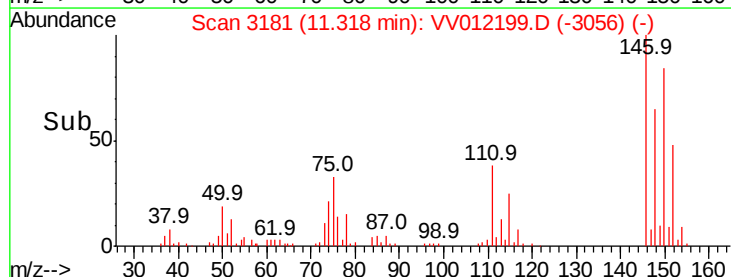
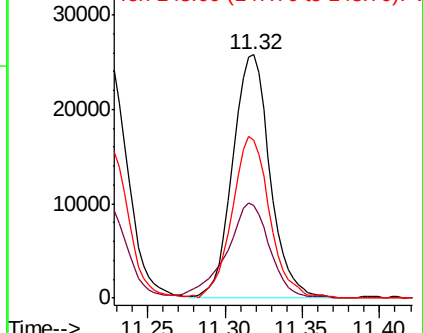
148 64.9 44.8 83.2

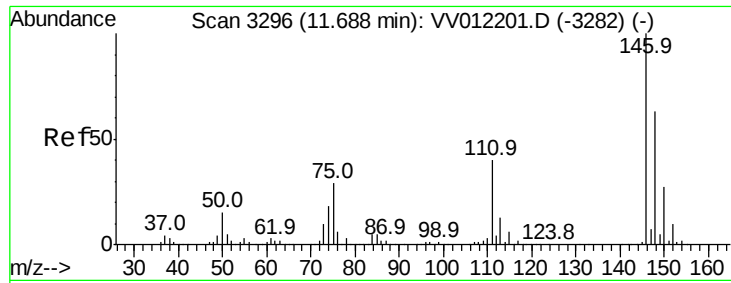


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

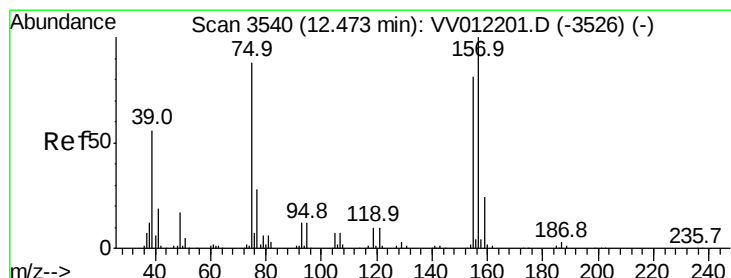
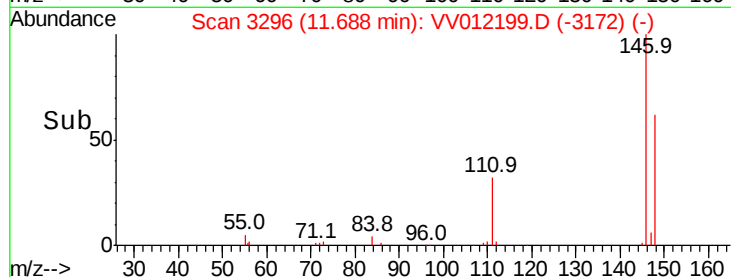
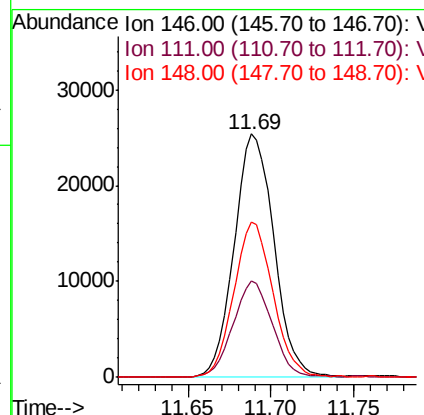
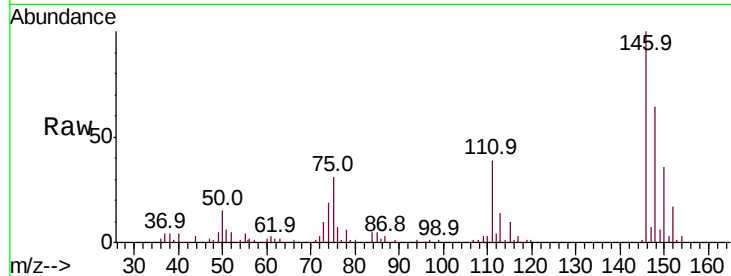




#65
 1,2-Dichlorobenzene
 Concen: 6.029 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

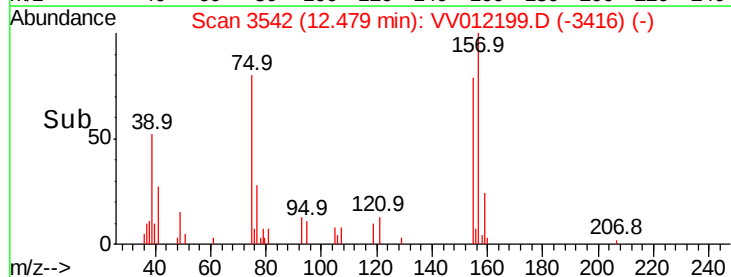
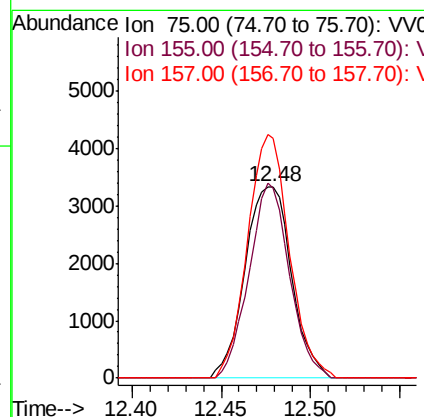
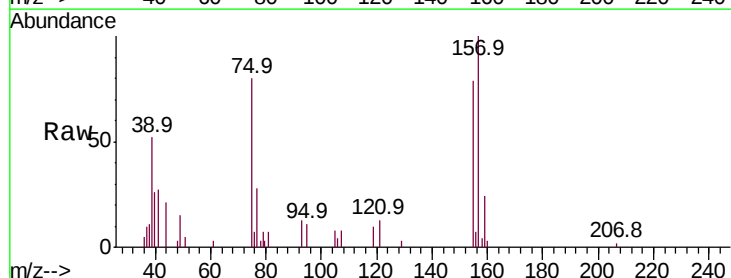
Instrument :
 MSVOA_V
 ClientSampleId :

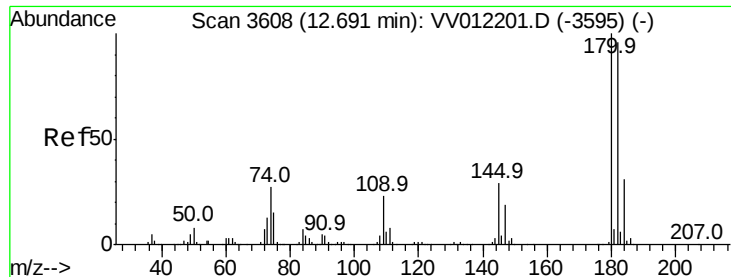
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	31.8	47.6
148	64.0	50.6	76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.615 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.01 min
 Lab File: VV012199.D
 Acq: 12 Aug 2019 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.4	73.9	110.9
157	125.5	91.2	136.8





#67

1,3,5-Trichlorobenzene

Concen: 5.475 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:180 Resp: 30092

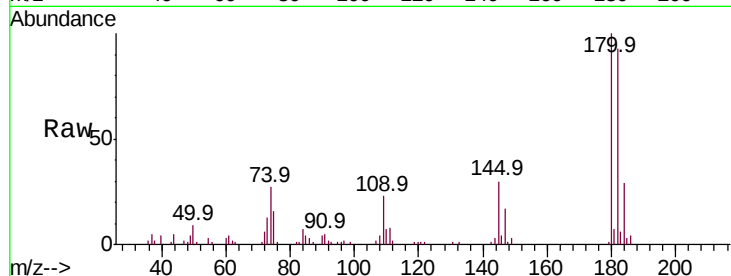
Ion Ratio Lower Upper

180 100

182 95.1 76.0 114.0

184 31.2 24.0 36.0

145 29.7 23.0 34.6

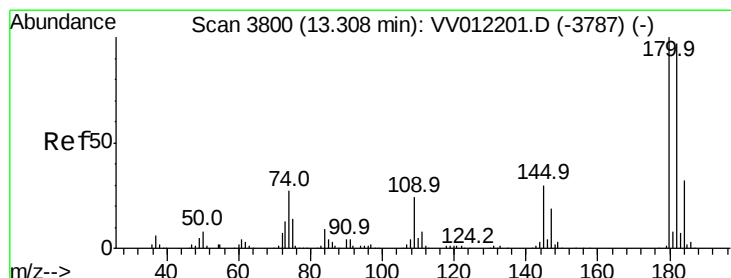
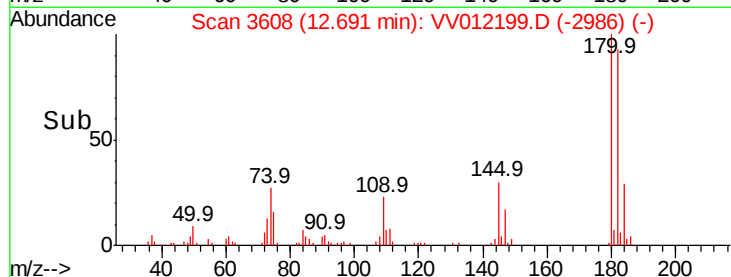
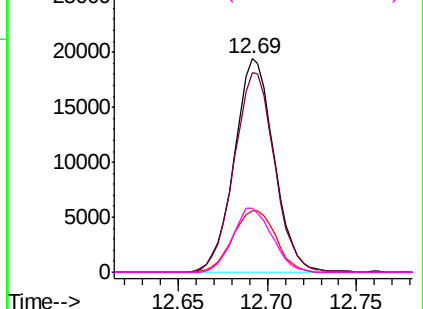


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 4.960 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

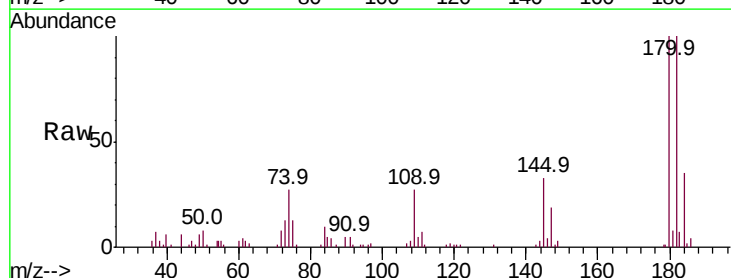
Tgt Ion:180 Resp: 22521

Ion Ratio Lower Upper

180 100

182 97.7 76.6 115.0

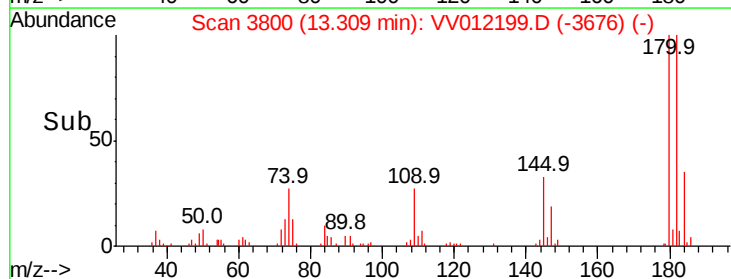
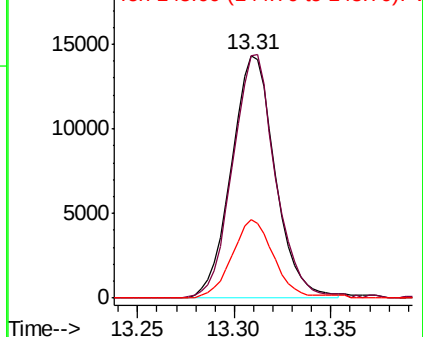
145 30.5 23.8 35.6

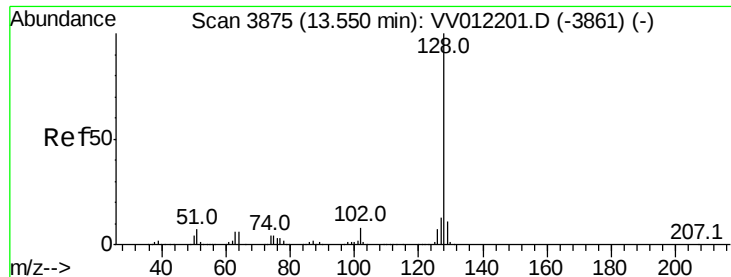


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 4.481 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

Instrument :

MSVOA_V

ClientSampleId :

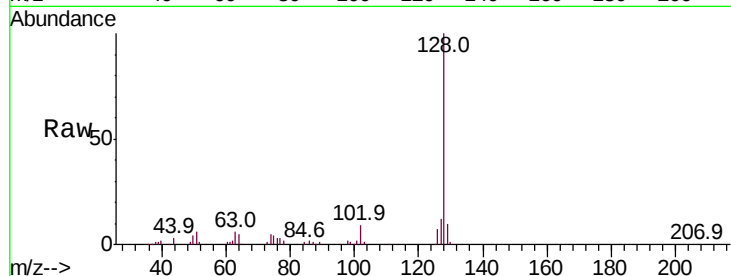
Tot Ion:128 Resp: 56770

Ion Ratio Lower Upper

128 100

127 12.1 10.4 15.6

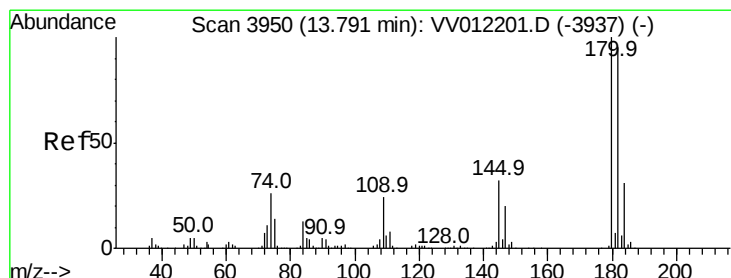
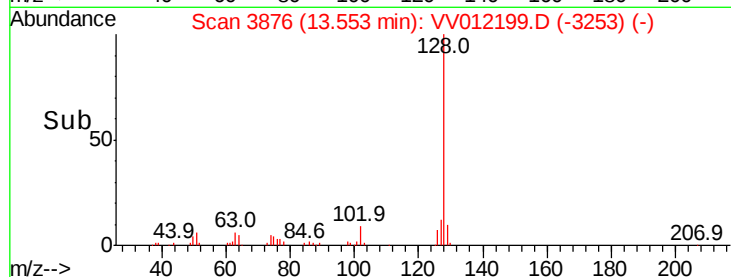
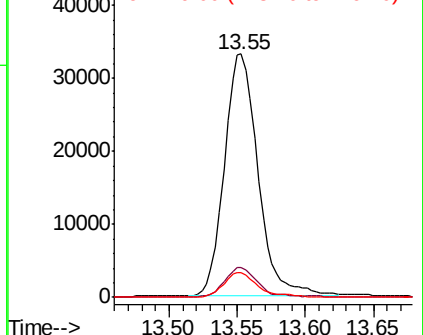
129 10.4 8.6 13.0



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: 5.464 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012199.D

Acq: 12 Aug 2019 10:47

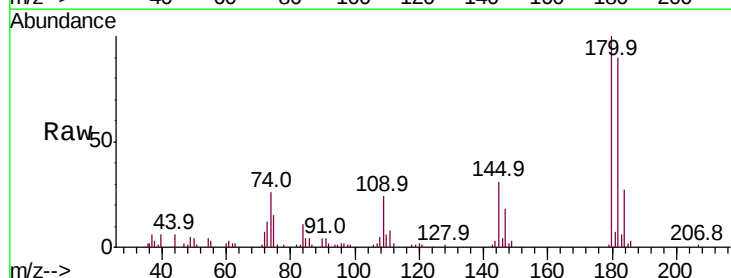
Tgt Ion:180 Resp: 26034

Ion Ratio Lower Upper

180 100

182 90.2 75.4 113.2

145 30.2 25.0 37.4



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

