

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV082319\
 Data File : VV012365.D
 Acq On : 23 Aug 2019 15:03
 Operator : SY/MD
 Sample : VSTD0.532
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.532

Quant Time: Aug 24 00:35:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 24 00:30:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	218417	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	209862	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	91386	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	6700	0.51	ug/L	0.00
7) Chloroethane-d5	1.58	69	5226	0.53	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	12080	0.55	ug/L	0.00
20) 2-Butanone-d5	3.98	46	16863	5.80	ug/L	0.02
24) Chloroform-d	4.41	84	15352	0.58	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	8014	0.64	ug/L	0.00
32) Benzene-d6	5.10	84	29952	0.56	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	9763	0.62	ug/L	0.00
41) Toluene-d8	7.36	98	25375	0.53	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	3624	0.61	ug/L	0.00
46) 2-Hexanone-d5	8.15	63	8407	4.47	ug/L	0.01
57) 1,1,2,2-Tetrachloroethane-	10.26	84	6236	0.58	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	10475	0.68	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	10111	0.497 ug/L	97
3) Chloromethane	1.25	50	8417	0.468 ug/L	94
5) Vinyl chloride	1.32	62	7860	0.429 ug/L	93
6) Bromomethane	1.54	94	3880	0.388 ug/L	99
8) Chloroethane	1.60	64	4200	0.408 ug/L	98
9) Trichlorofluoromethane	1.77	101	9702	0.415 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	5429	0.457 ug/L	95
12) 1,1-Dichloroethene	2.14	96	4589	0.412 ug/L #	78
13) Acetone	2.23	43	6167	3.557 ug/L	95
14) Carbon disulfide	2.32	76	16049	0.490 ug/L	98
15) Methyl Acetate	2.47	43	1992	0.459 ug/L #	86
16) Methylene chloride	2.53	84	6344	0.530 ug/L	95
17) Methyl tert-butyl Ether	2.81	73	13493	0.437 ug/L #	93
18) trans-1,2-Dichloroethene	2.79	96	7117	0.475 ug/L	97
19) 1,1-Dichloroethane	3.23	63	12804	0.468 ug/L	94
21) 2-Butanone	4.07	43	14066	3.981 ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	7724	0.475 ug/L	98
23) Bromochloromethane	4.30	128	3021	0.438 ug/L	94
25) Chloroform	4.43	83	17546	0.568 ug/L	100
27) 1,2-Dichloroethane	5.18	62	7586	0.452 ug/L	98
29) 1,1,1-Trichloroethane	4.65	97	11168	0.453 ug/L	99
30) Cyclohexane	4.72	56	10641	0.432 ug/L	98
31) Carbon tetrachloride	4.87	117	9614	0.433 ug/L	98
33) Benzene	5.15	78	27019	0.442 ug/L	100
34) Trichloroethene	5.96	95	7754	0.468 ug/L	98
35) Methylcyclohexane	6.17	83	11666	0.457 ug/L	96
37) 1,2-Dichloropropane	6.22	63	7259	0.475 ug/L #	93
38) Bromodichloromethane	6.55	83	8945	0.456 ug/L	88
39) cis-1,3-Dichloropropene	7.07	75	8967	0.434 ug/L	98
40) 4-Methyl-2-pentanone	7.29	43	33222	3.989 ug/L	97

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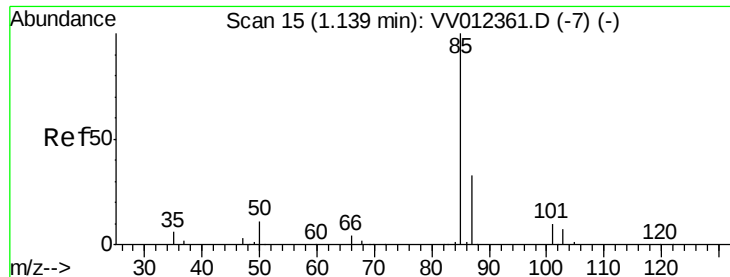
Instrument :
 MSVOA_V
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Quant Time: Aug 24 00:35:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082319WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.43	91	26544	0.411	ug/L	96
44) trans-1,3-Dichloropropene	7.70	75	6265	0.380	ug/L	90
45) 1,1,2-Trichloroethane	7.88	97	4248	0.420	ug/L	94
47) Tetrachloroethene	8.02	164	6107	0.451	ug/L	97
48) 2-Hexanone	8.20	43	24334	4.144	ug/L	93
49) Dibromochloromethane	8.29	129	5097	0.407	ug/L	96
50) 1,2-Dibromoethane	8.40	107	4283	0.439	ug/L #	96
51) Chlorobenzene	8.92	112	18683	0.448	ug/L	99
52) Ethylbenzene	9.05	91	27290	0.397	ug/L	96
53) m,p-xylene	9.18	106	9840	0.375	ug/L	100
54) o-xylene	9.59	106	9436	0.379	ug/L	96
55) Styrene	9.60	104	14266	0.343	ug/L	97
56) Isopropylbenzene	9.97	105	24609	0.368	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	4523	0.390	ug/L	93
59) 1,2,3-Trichloropropane	10.32	75	4101	0.479	ug/L	99
61) Bromoform	9.78	173	2950	0.523	ug/L #	97
62) 1,3-Dichlorobenzene	11.23	146	13606	0.469	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	14338	0.495	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	12662	0.475	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.48	75	740	0.438	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	10045	0.456	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	5820	0.359	ug/L	98
69) Naphthalene	13.56	128	8134	0.355	ug/L	96
70) 1,2,3-Trichlorobenzene	13.79	180	5688	0.373	ug/L #	90

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



#2

Dichlorodifluoromethane

Concen: 0.497 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

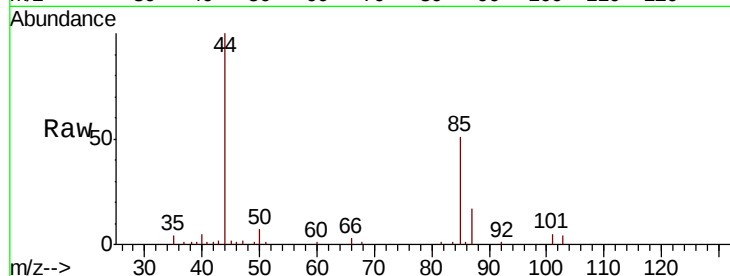
VSTD0.532

Tgt Ion: 85 Resp: 10111

Ion Ratio Lower Upper

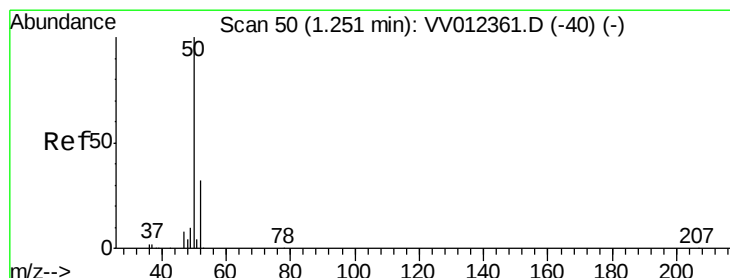
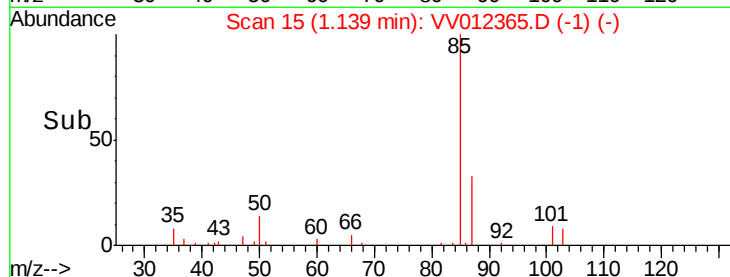
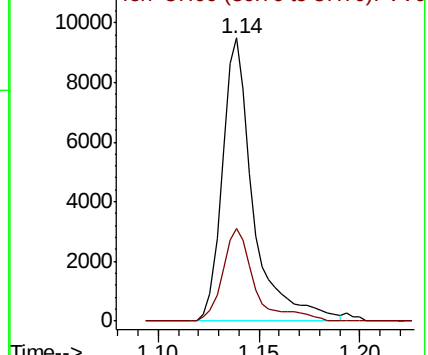
85 100

87 33.7 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.468 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012365.D

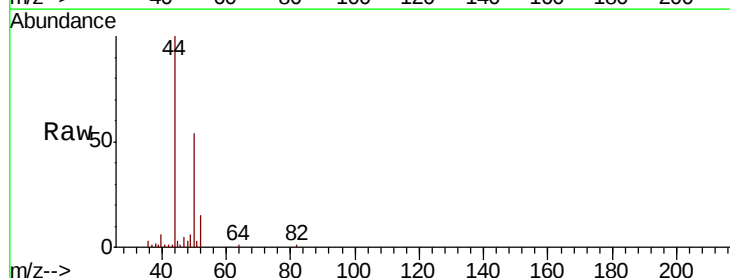
Acq: 23 Aug 2019 15:03

Tgt Ion: 50 Resp: 8417

Ion Ratio Lower Upper

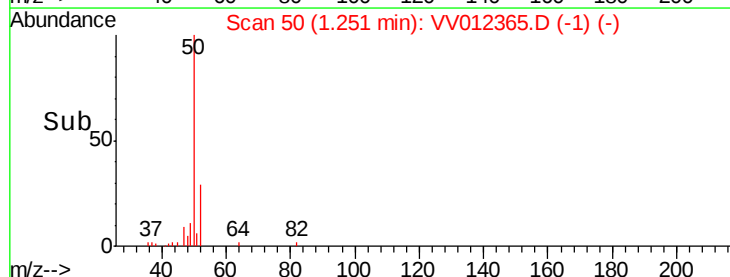
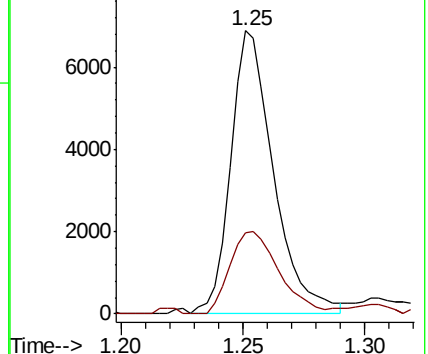
50 100

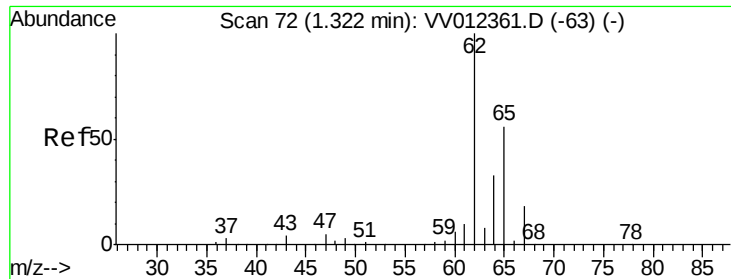
52 28.6 22.2 41.2



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 0.429 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

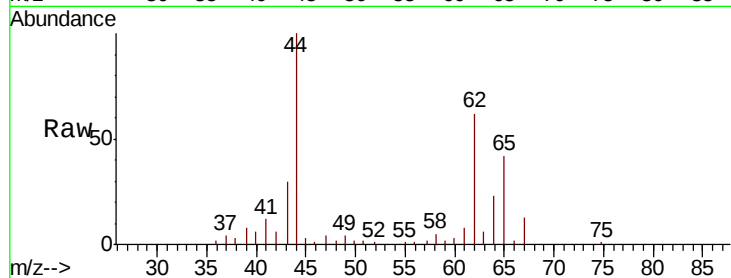
VSTD0.532

Tgt Ion: 62 Resp: 7860

Ion Ratio Lower Upper

62 100

64 37.2 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

8000

6000

4000

2000

0

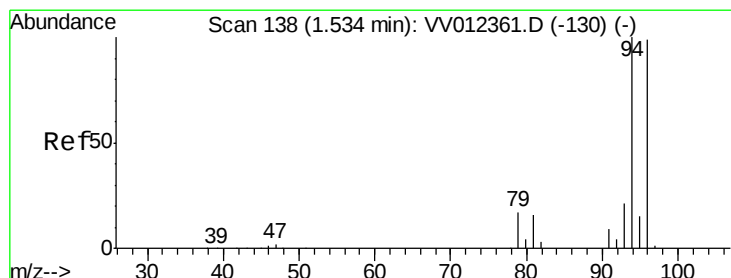
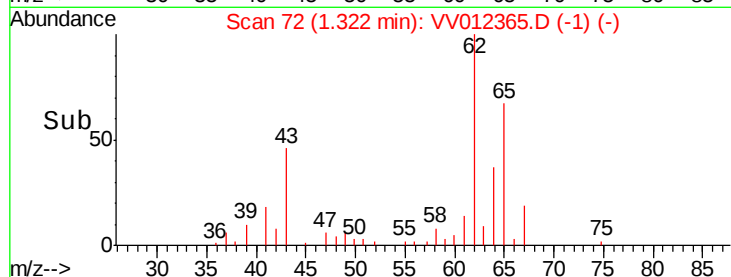
1.25

1.30

1.35

1.40

Time-->



#6

Bromomethane

Concen: 0.388 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012365.D

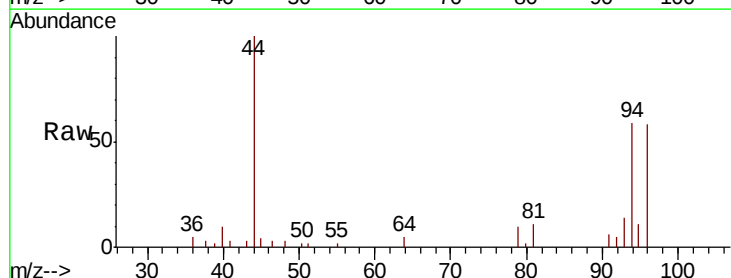
Acq: 23 Aug 2019 15:03

Tgt Ion: 94 Resp: 3880

Ion Ratio Lower Upper

94 100

96 98.4 69.2 128.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

3000

2000

1000

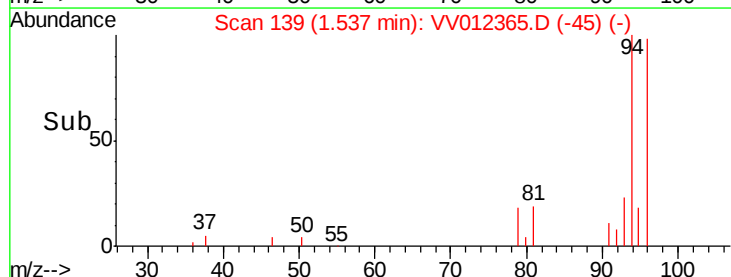
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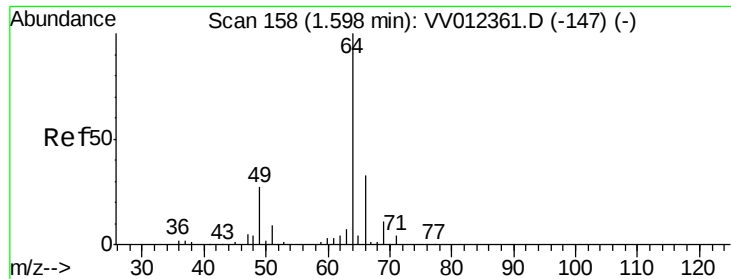
1.50

1.55

1.60

Time-->





#8

Chloroethane

Concen: 0.408 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

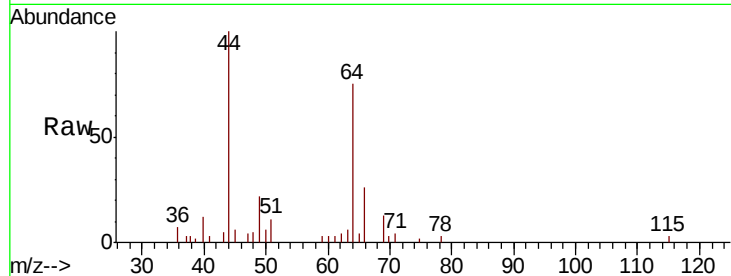
VSTD0.532

Tgt Ion: 64 Resp: 4200

Ion Ratio Lower Upper

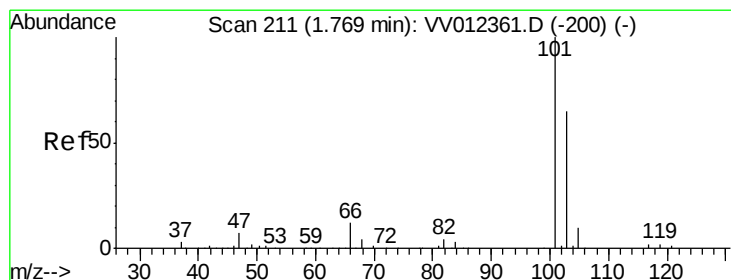
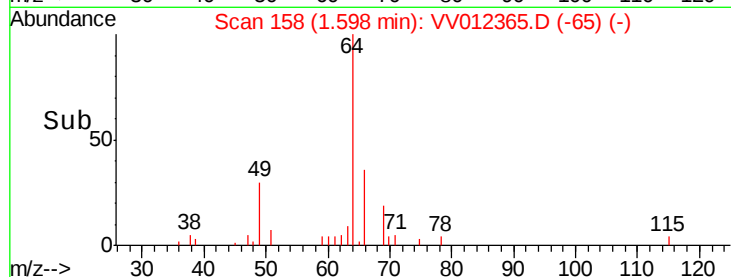
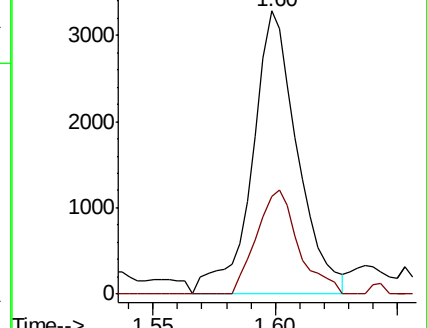
64 100

66 34.5 23.2 43.0



Abundance Ion 64.10 (63.80 to 64.80): VV012361.D (-147) (-)

Ion 66.05 (65.75 to 66.75): VV012361.D (-147) (-)



#9

Trichlorofluoromethane

Concen: 0.415 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012365.D

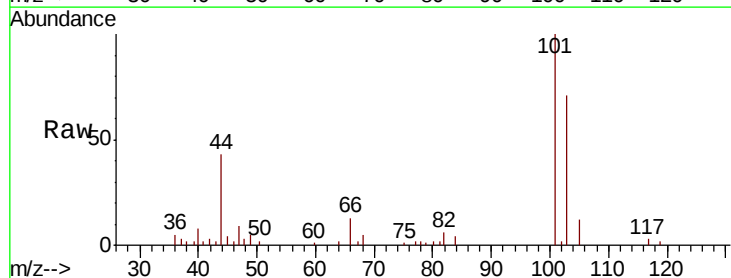
Acq: 23 Aug 2019 15:03

Tgt Ion: 101 Resp: 9702

Ion Ratio Lower Upper

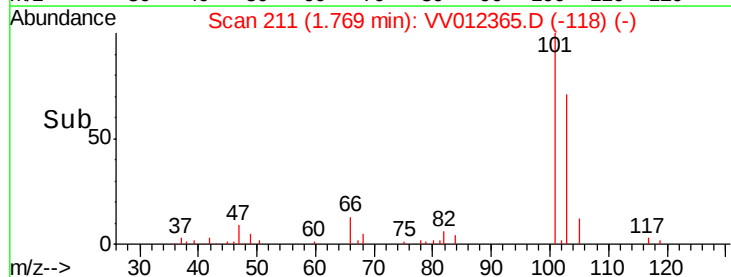
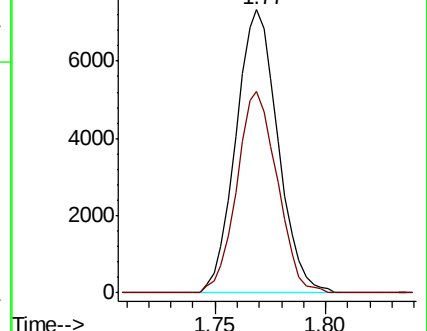
101 100

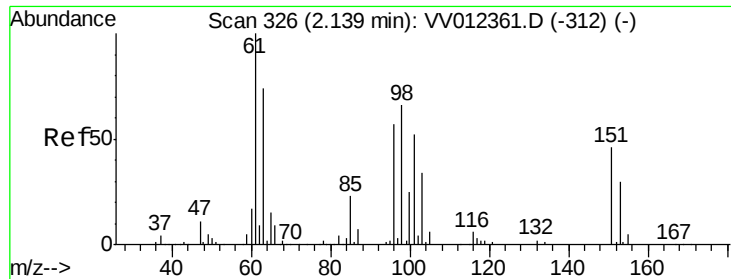
103 68.6 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VV012361.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012361.D (-200) (-)





#10

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

Concen: 0.457 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

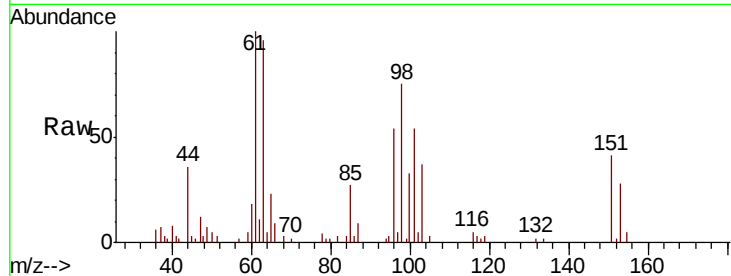
Tgt Ion: 101 Resp: 5429

Ion Ratio Lower Upper

101 100

85 45.3 34.6 51.8

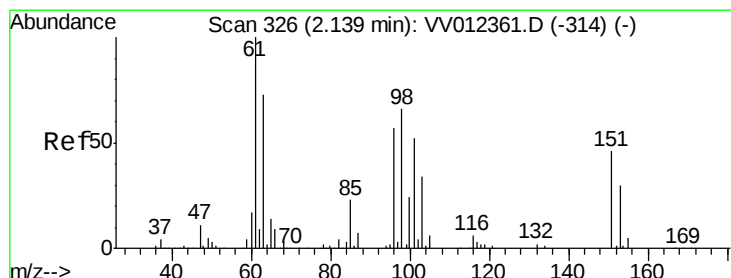
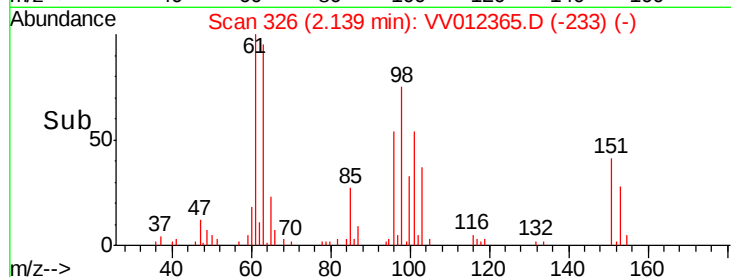
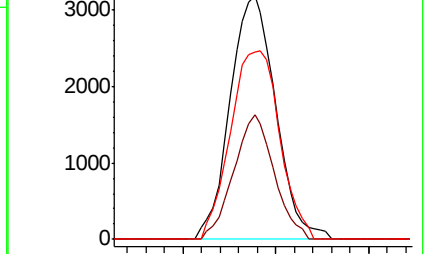
151 83.5 71.2 106.8



Abundance Ion 101.00 (100.70 to 101.70): VV012361.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV012361.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV012361.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 0.412 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

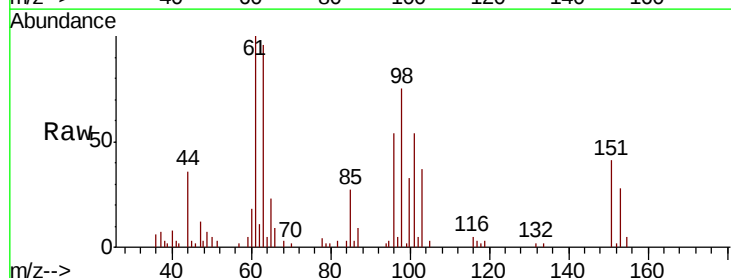
Tgt Ion: 96 Resp: 4589

Ion Ratio Lower Upper

96 100

61 184.6 122.3 227.1

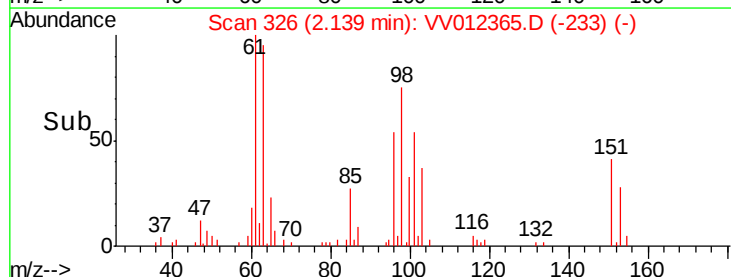
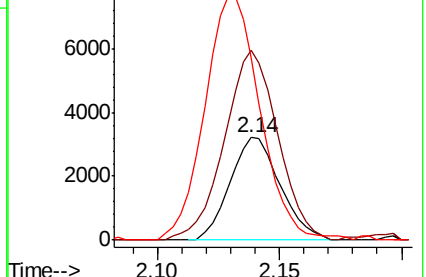
63 178.0 90.6 168.2#

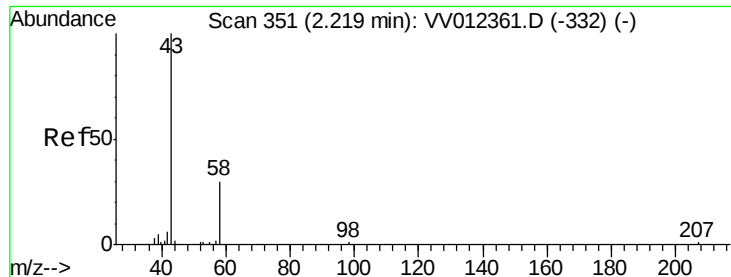


Abundance Ion 96.00 (95.70 to 96.70): VV012365.D (-233) (-)

Ion 61.05 (60.75 to 61.75): VV012365.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV012365.D (-233) (-)





#13

Acetone

Concen: 3.557 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.01 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

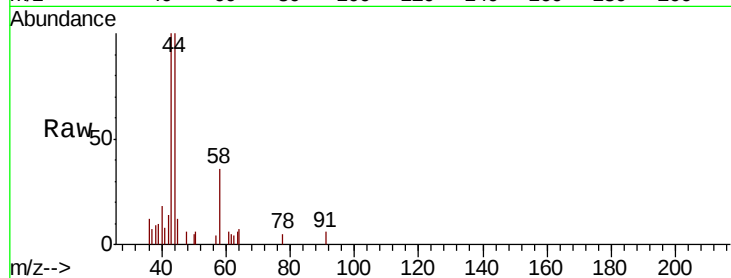
VSTD0.532

Tgt Ion: 43 Resp: 6167

Ion Ratio Lower Upper

43 100

58 34.2 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.23

2500

2000

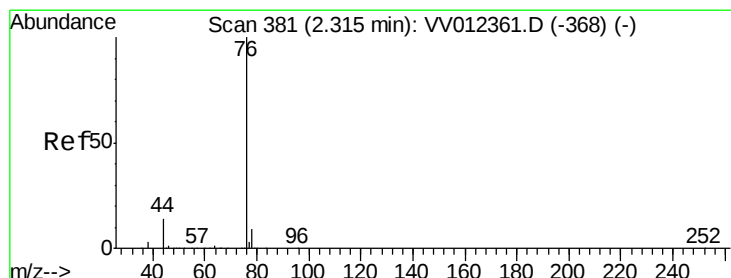
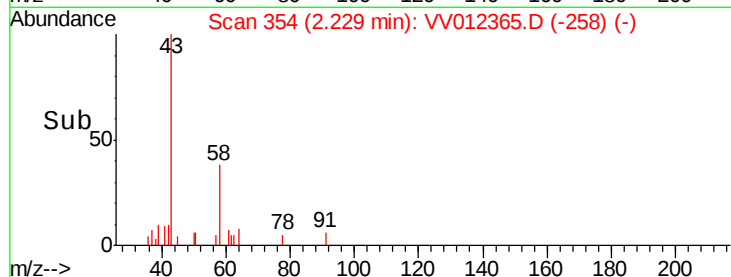
1500

1000

500

0

Time-->



#14

Carbon disulfide

Concen: 0.490 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012365.D

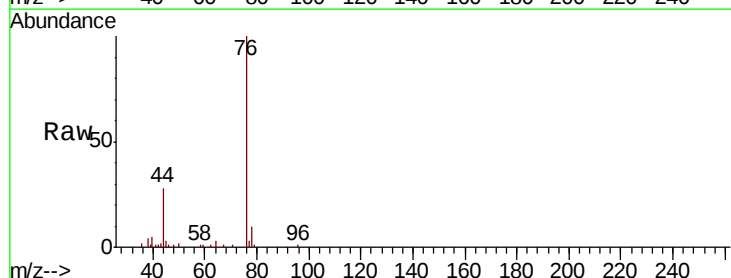
Acq: 23 Aug 2019 15:03

Tgt Ion: 76 Resp: 16049

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

12000

10000

8000

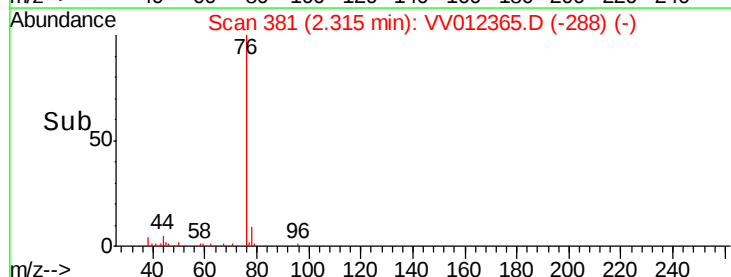
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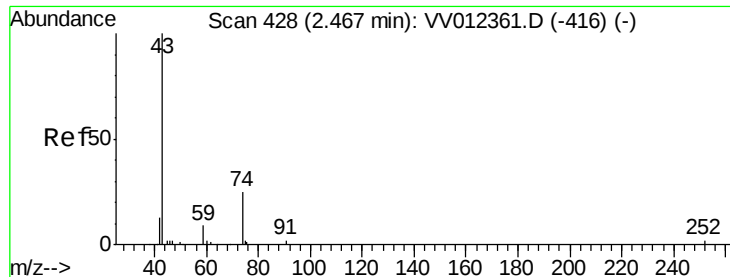
4000

2000

0

Time-->

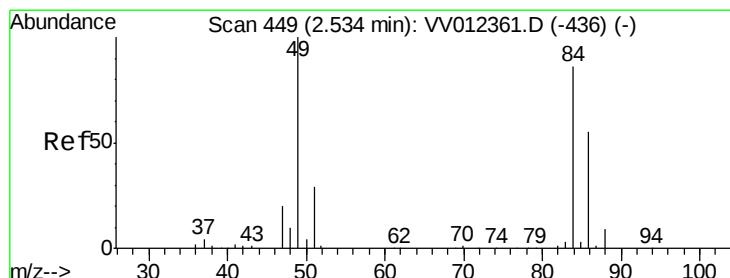
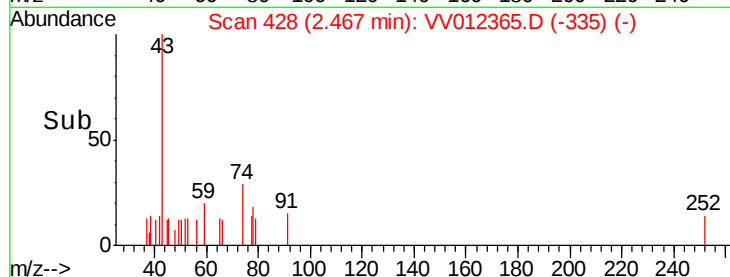
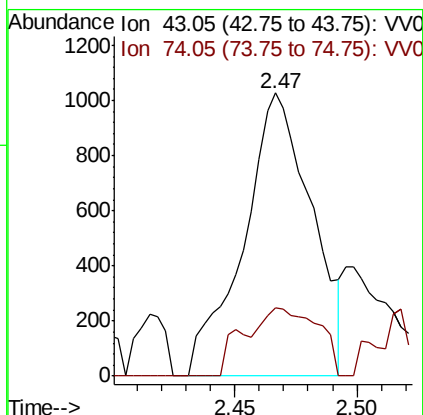
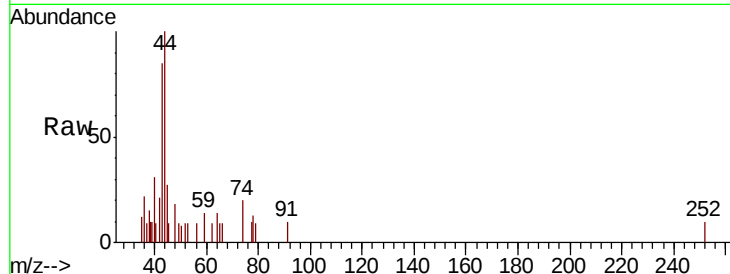




#15
Methyl Acetate
Concen: 0.459 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

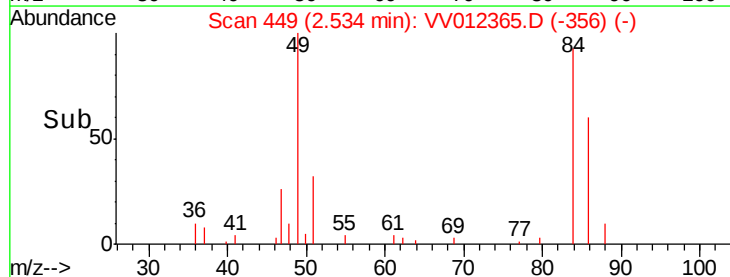
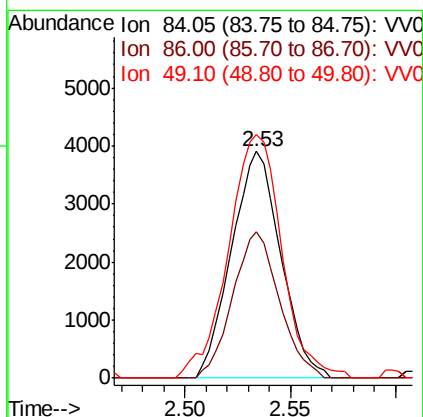
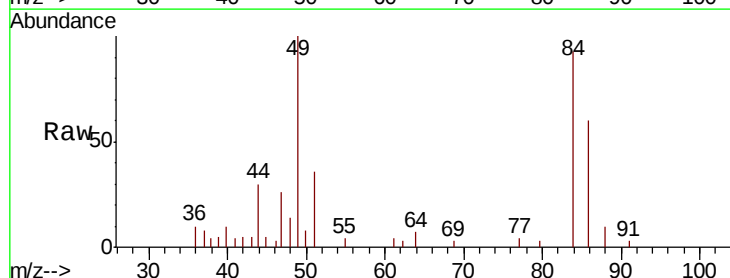
Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

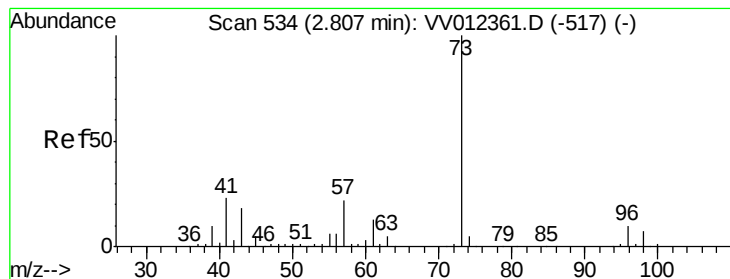
Tgt Ion: 43 Resp: 1992
Ion Ratio Lower Upper
43 100
74 19.9 21.8 32.6#



#16
Methylene chloride
Concen: 0.530 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Tgt Ion: 84 Resp: 6344
Ion Ratio Lower Upper
84 100
86 64.6 44.9 83.5
49 107.3 81.1 150.7





#17

Methyl tert-butyl Ether

Concen: 0.437 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

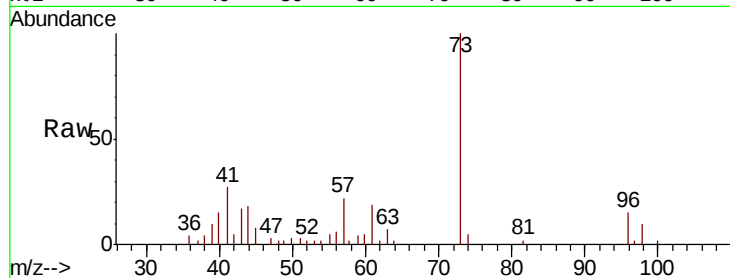
Tgt Ion: 73 Resp: 13493

Ion Ratio Lower Upper

73 100

43 22.6 15.0 22.6#

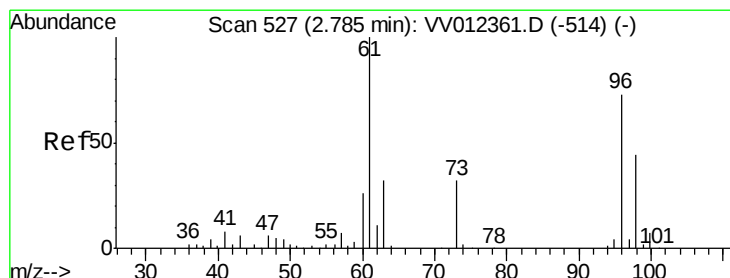
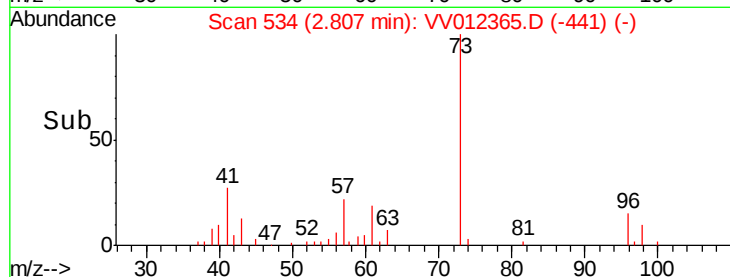
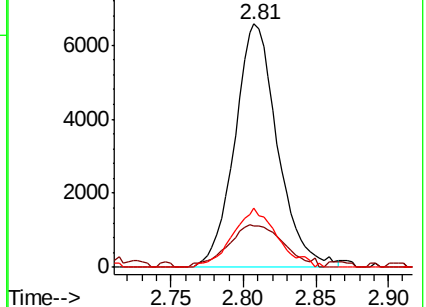
57 25.1 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 0.475 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

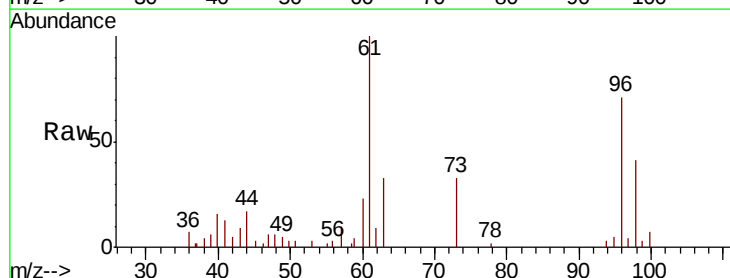
Tgt Ion: 96 Resp: 7117

Ion Ratio Lower Upper

96 100

61 141.2 96.0 178.4

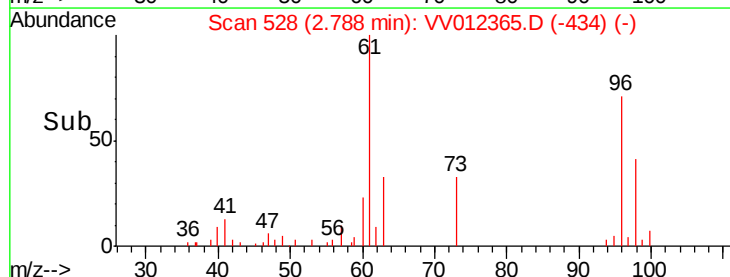
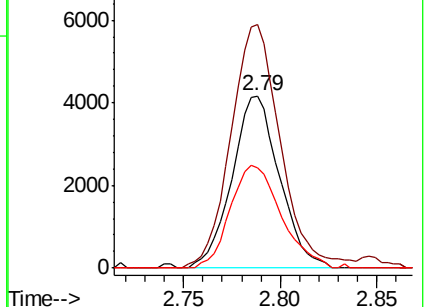
98 58.4 42.1 78.3

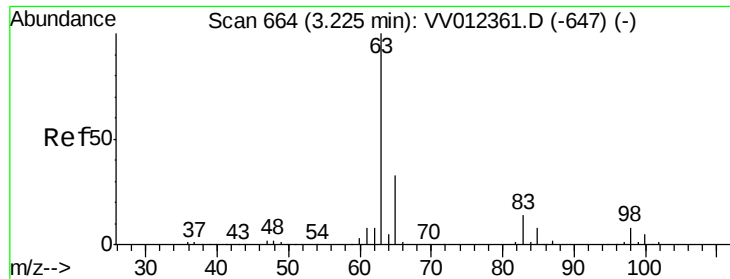


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

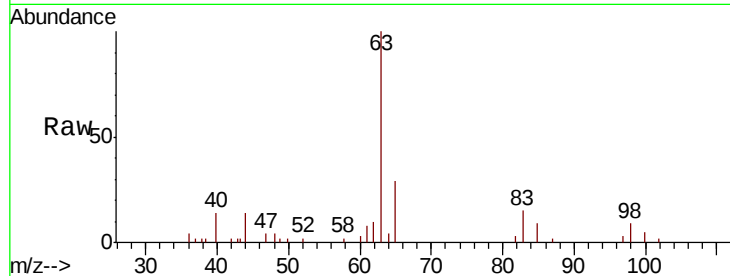




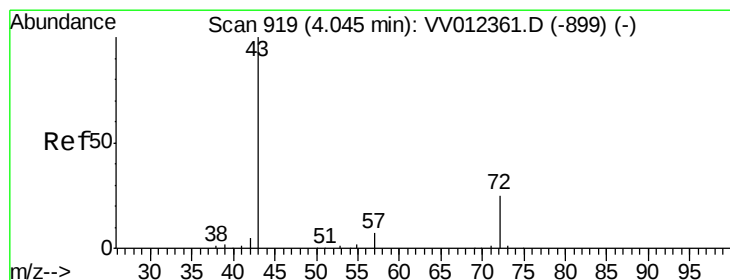
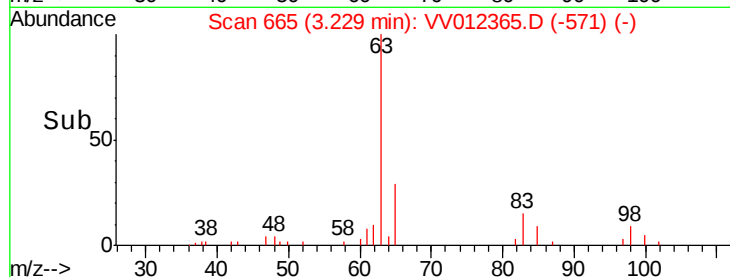
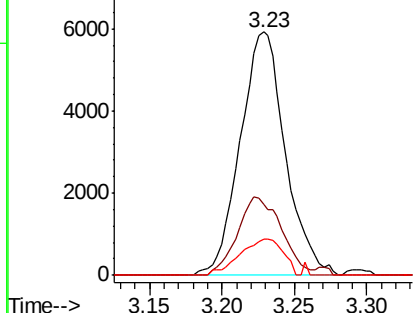
#19
 1,1-Dichloroethane
 Concen: 0.468 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.532

Tgt Ion: 63 Resp: 12804
 Ion Ratio Lower Upper
 63 100
 65 29.3 23.1 42.9
 83 14.6 9.4 17.6

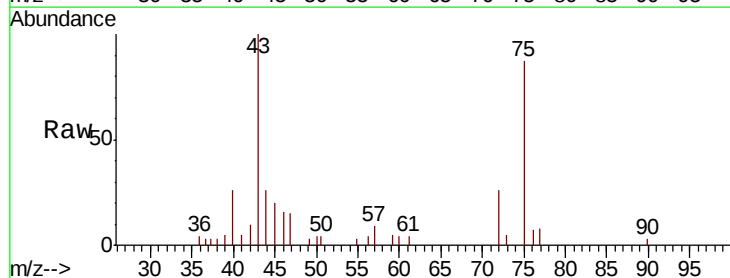


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

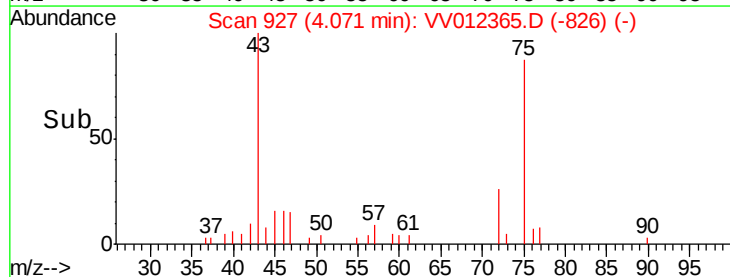
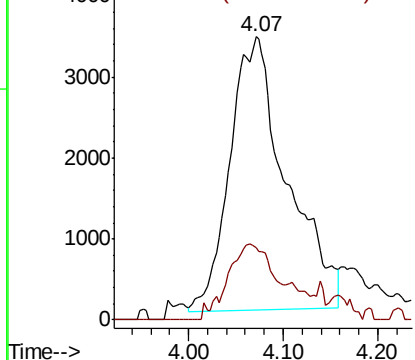


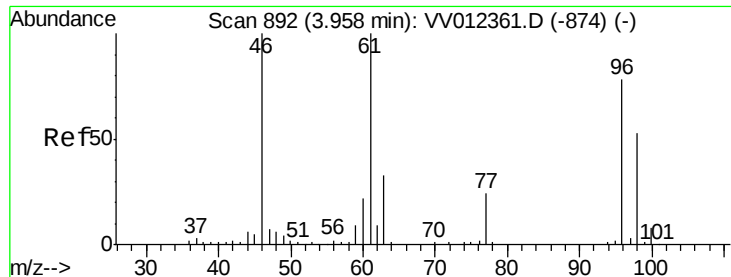
#21
 2-Butanone
 Concen: 3.981 ug/L
 RT: 4.07 min Scan# 927
 Delta R.T. 0.03 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Tgt Ion: 43 Resp: 14066
 Ion Ratio Lower Upper
 43 100
 72 21.7 12.2 36.6



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 72.10 (71.80 to 72.80): VV0



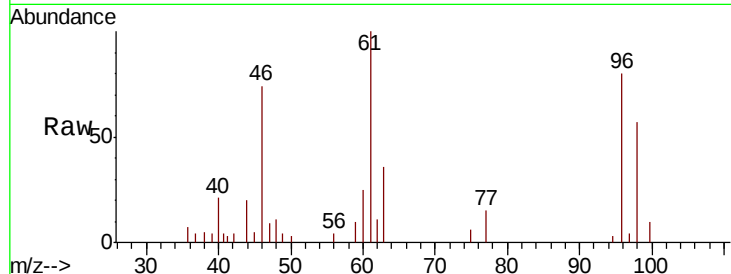


#22

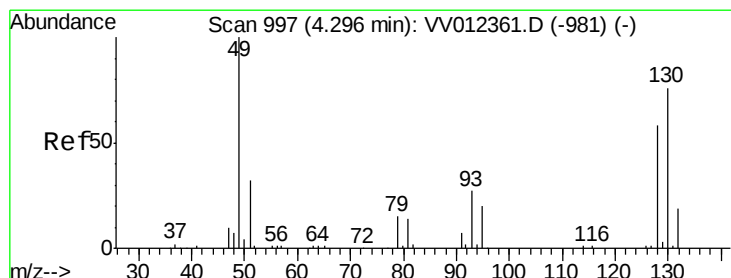
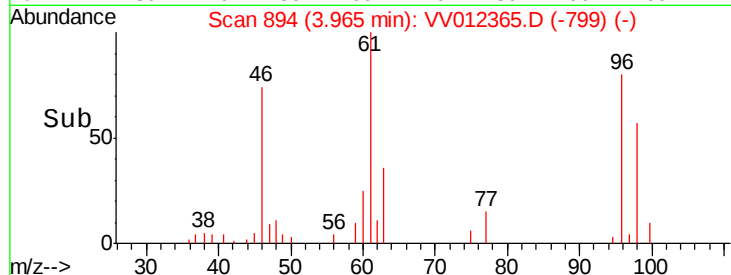
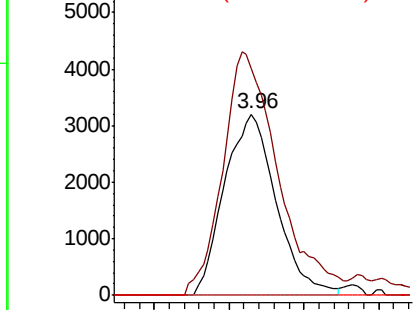
cis-1,2-Dichloroethene
Concen: 0.475 ug/L
RT: 3.96 min Scan# 894
Delta R.T. 0.01 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Tgt Ion: 96 Resp: 7724
Ion Ratio Lower Upper
96 100
61 125.0 89.4 166.0
68 0.0 0.0 0.0



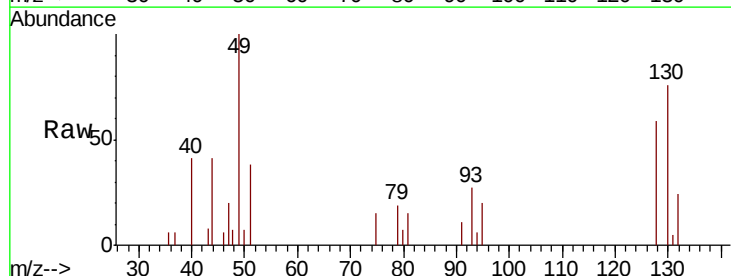
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



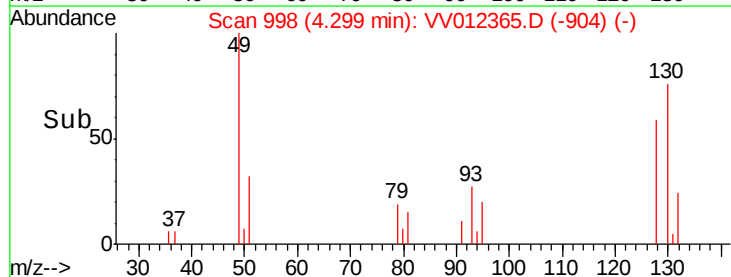
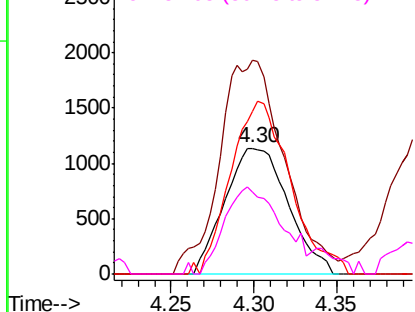
#23

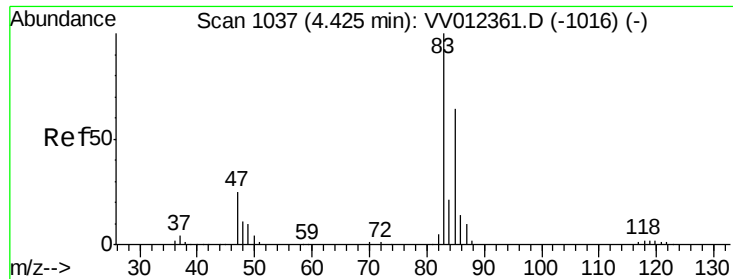
Bromochloromethane
Concen: 0.438 ug/L
RT: 4.30 min Scan# 998
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Tgt Ion: 128 Resp: 3021
Ion Ratio Lower Upper
128 100
49 181.3 120.7 224.1
130 129.4 91.5 169.9
51 65.2 44.3 66.5



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

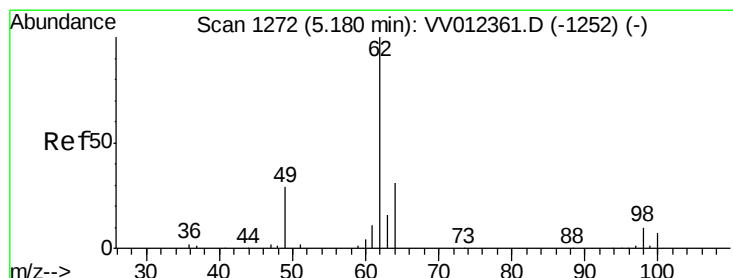
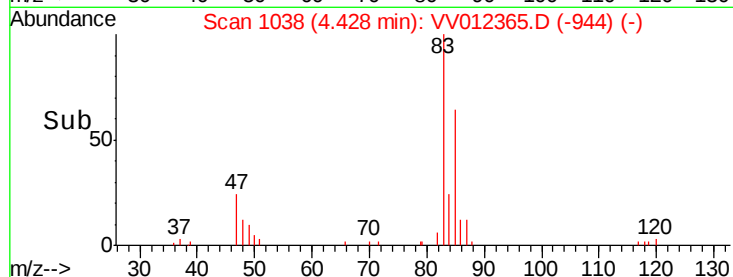
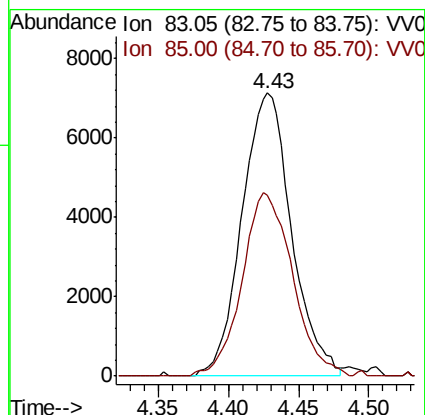
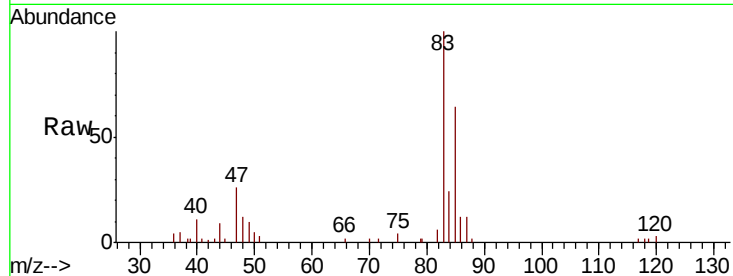




#25
Chloroform
Concen: 0.568 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

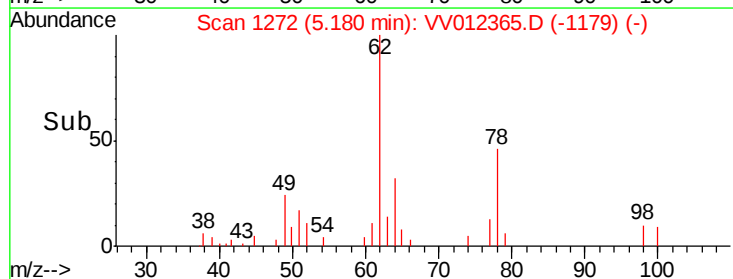
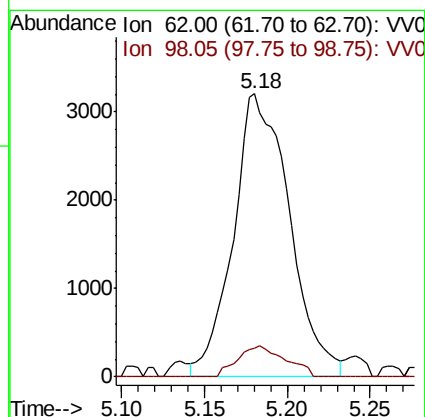
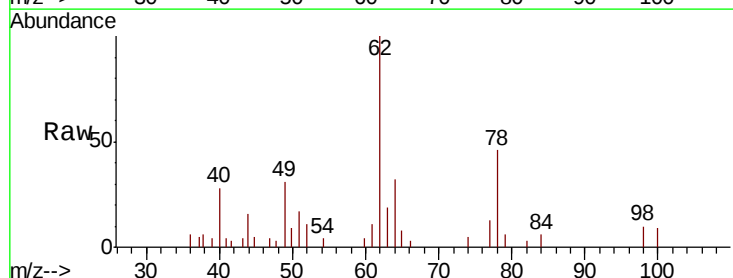
Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

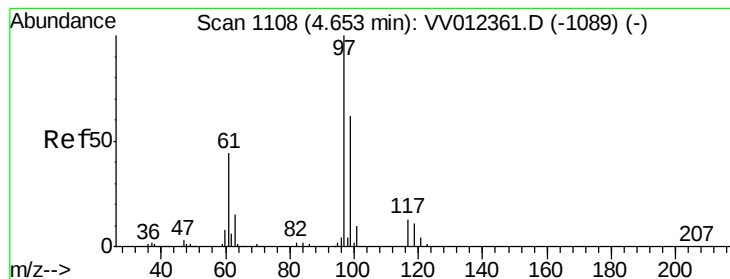
Tgt Ion: 83 Resp: 17546
Ion Ratio Lower Upper
83 100
85 63.9 44.6 82.8



#27
1,2-Dichloroethane
Concen: 0.452 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Tgt Ion: 62 Resp: 7586
Ion Ratio Lower Upper
62 100
98 10.1 7.6 11.4





#29

1,1,1-Trichloroethane

Concen: 0.453 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

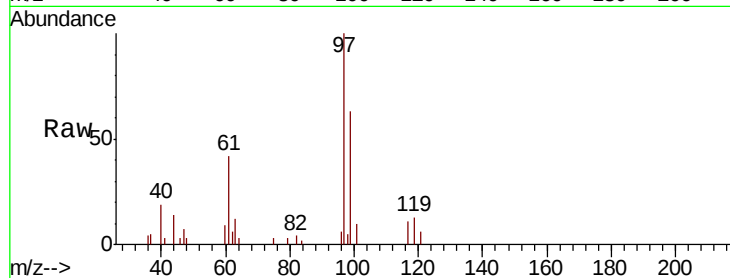
Tgt Ion: 97 Resp: 11168

Ion Ratio Lower Upper

97 100

99 64.3 50.5 75.7

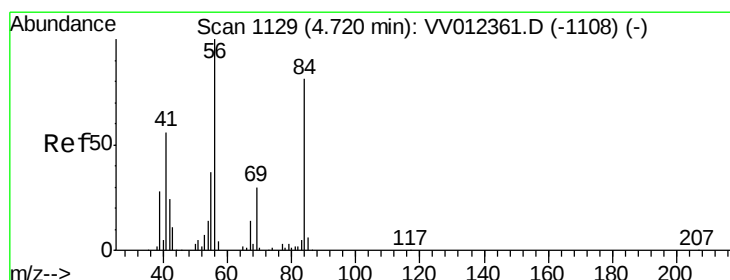
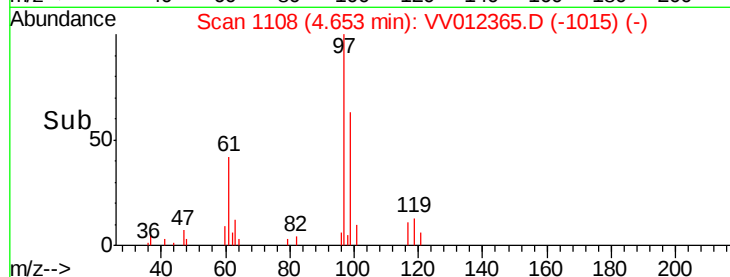
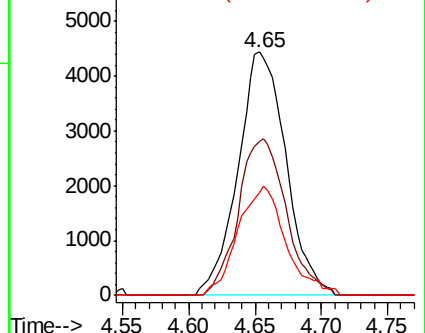
61 44.8 35.4 53.2



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 0.432 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

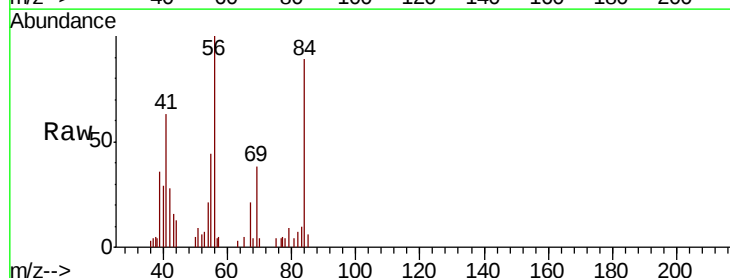
Tgt Ion: 56 Resp: 10641

Ion Ratio Lower Upper

56 100

69 31.8 24.0 36.0

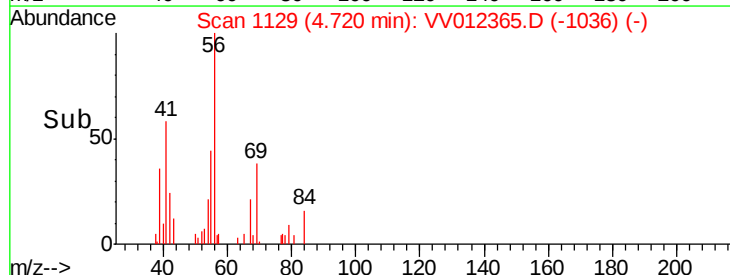
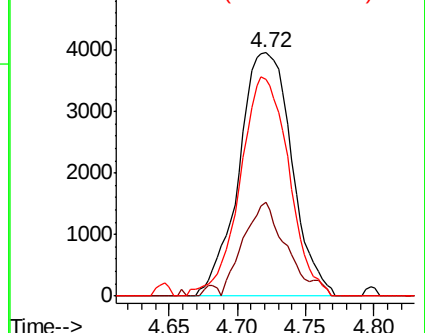
84 83.0 67.9 101.9

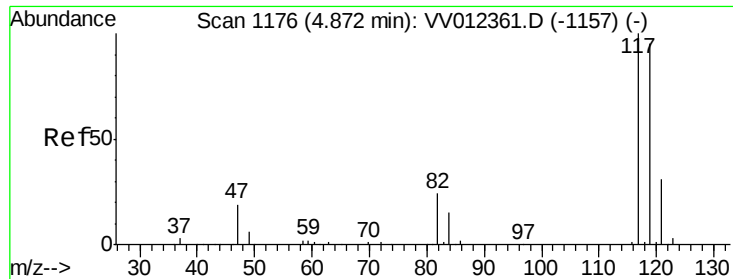


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 0.433 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

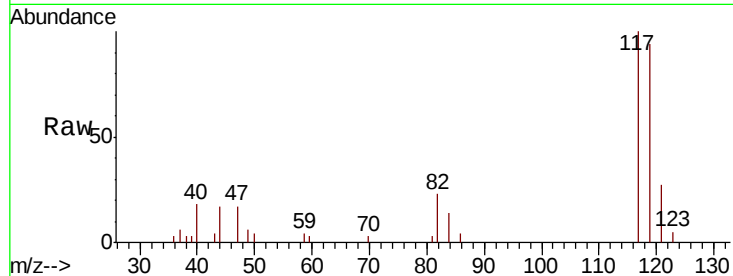
VSTD0.532

Tgt Ion:117 Resp: 9614

Ion Ratio Lower Upper

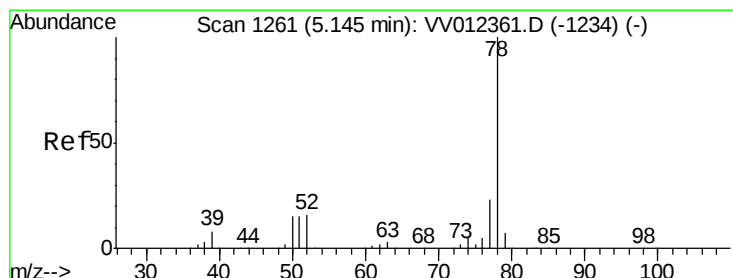
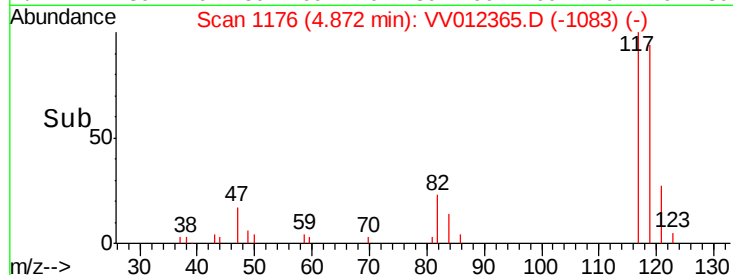
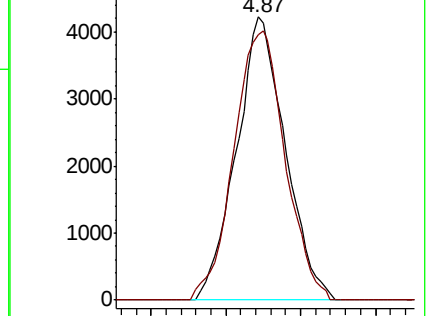
117 100

119 99.4 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.442 ug/L

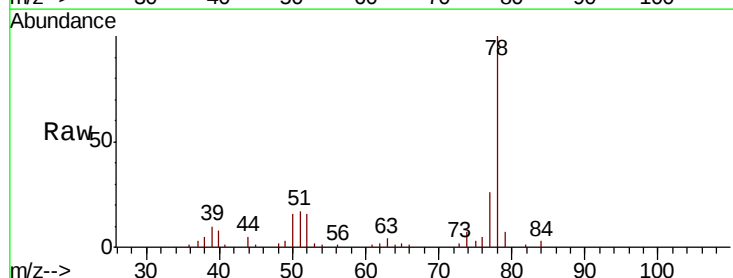
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

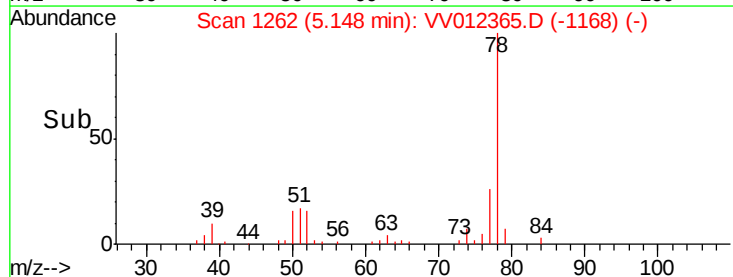
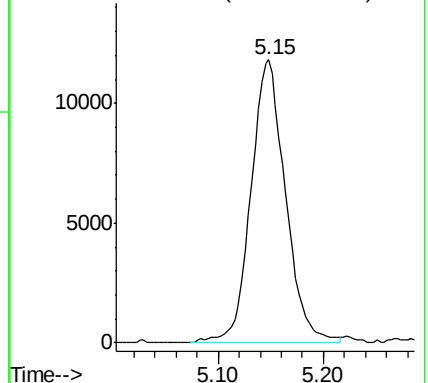
Lab File: VV012365.D

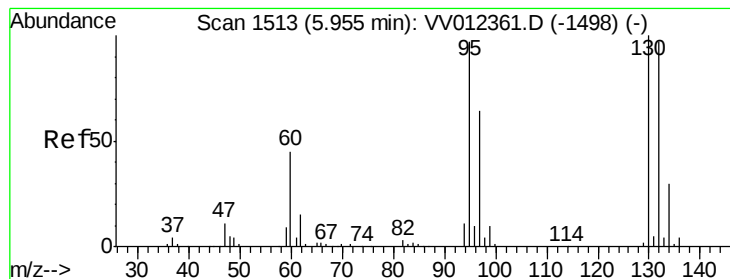
Acq: 23 Aug 2019 15:03

Tgt Ion: 78 Resp: 27019



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.468 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

Tgt Ion: 95 Resp: 7754

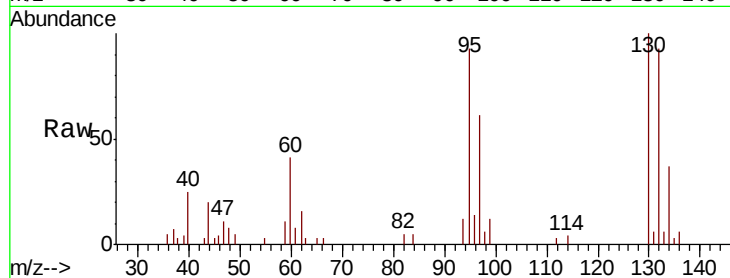
Ion Ratio Lower Upper

95 100

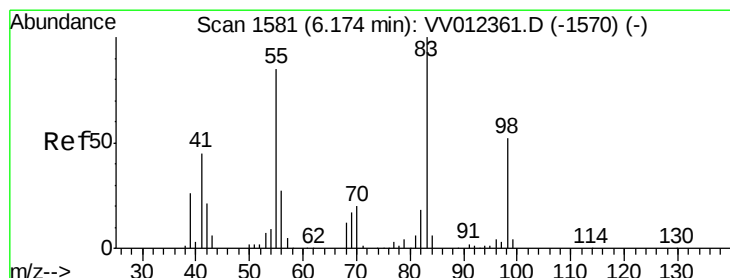
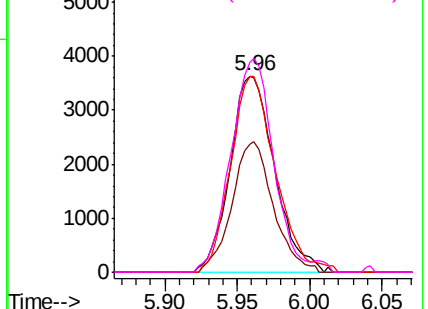
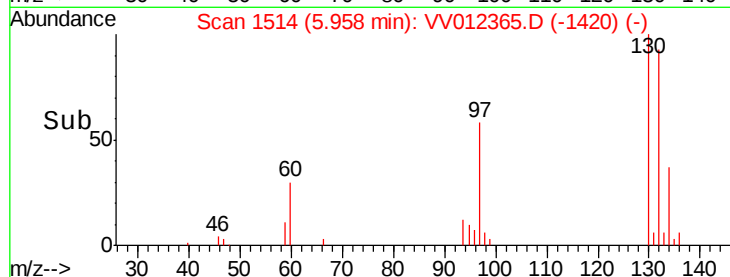
97 65.1 46.3 86.1

132 100.0 70.3 130.7

130 107.2 72.4 134.5



Abundance Ion 95.00 (94.70 to 95.70): VV012365.D (-1420) (-)



#35

Methylcyclohexane

Concen: 0.457 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

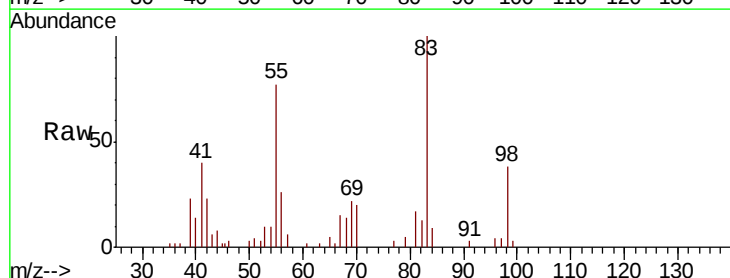
Tgt Ion: 83 Resp: 11666

Ion Ratio Lower Upper

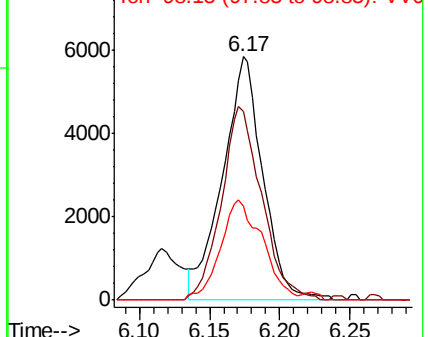
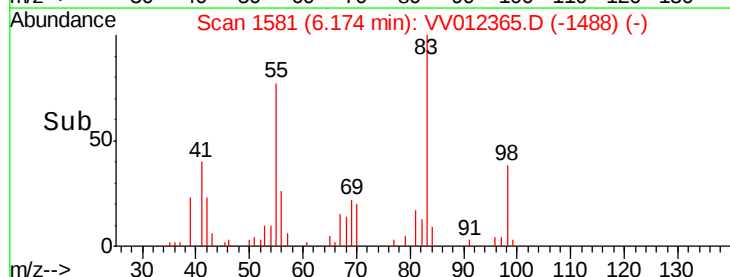
83 100

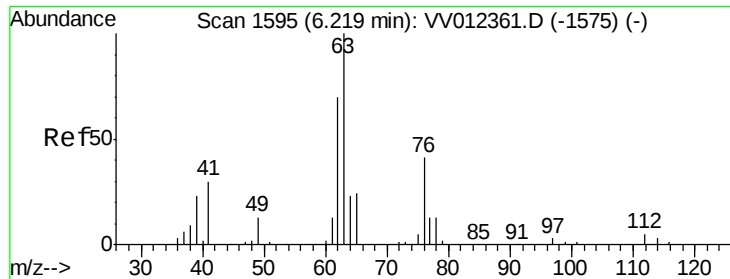
55 79.1 64.6 97.0

98 42.8 39.0 58.4



Abundance Ion 83.15 (82.85 to 83.85): VV012365.D (-1488) (-)

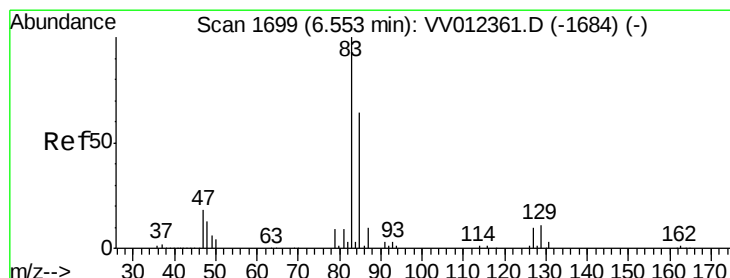
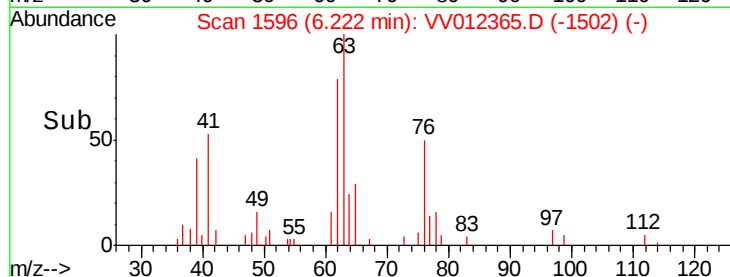
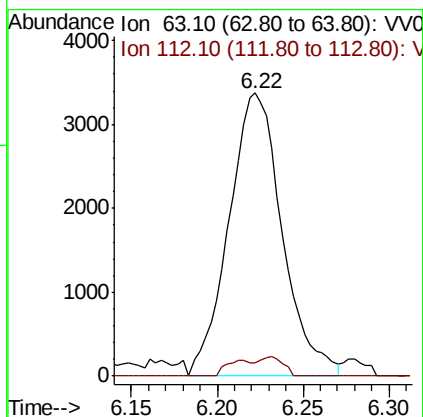
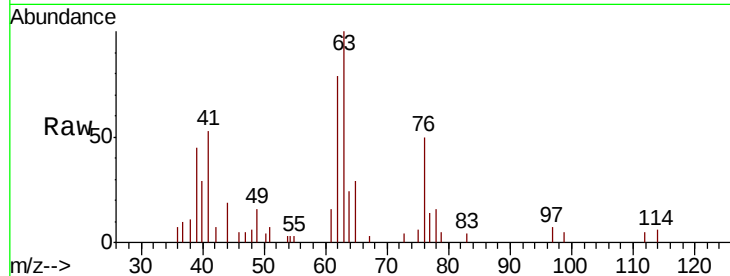




#37
 1,2-Dichloropropane
 Concen: 0.475 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

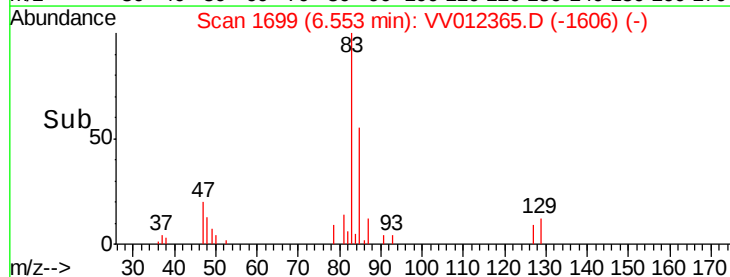
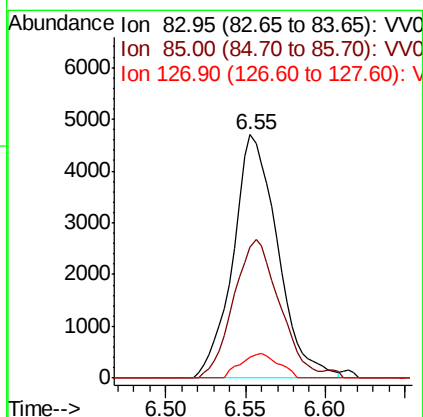
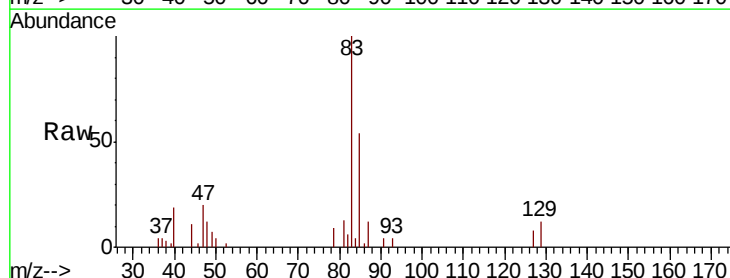
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.532

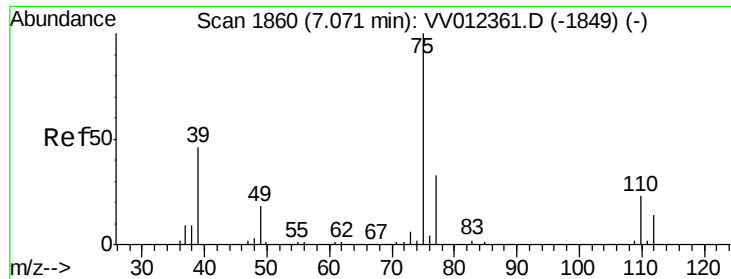
Tgt Ion: 63 Resp: 7259
 Ion Ratio Lower Upper
 63 100
 112 2.9 4.2 6.2#



#38
 Bromodichloromethane
 Concen: 0.456 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Tgt Ion: 83 Resp: 8945
 Ion Ratio Lower Upper
 83 100
 85 53.8 45.0 83.6
 127 8.4 7.7 11.5

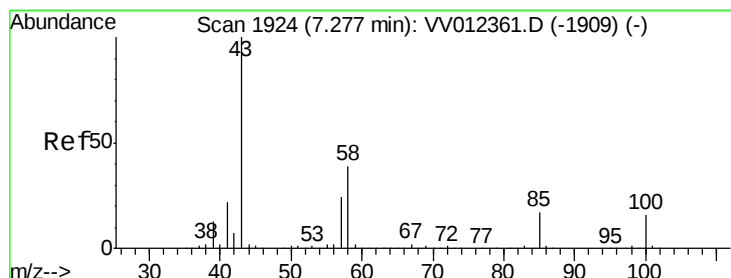
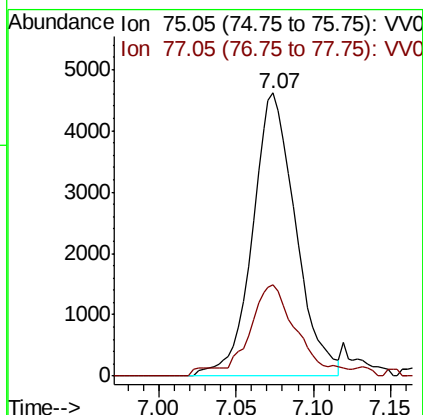
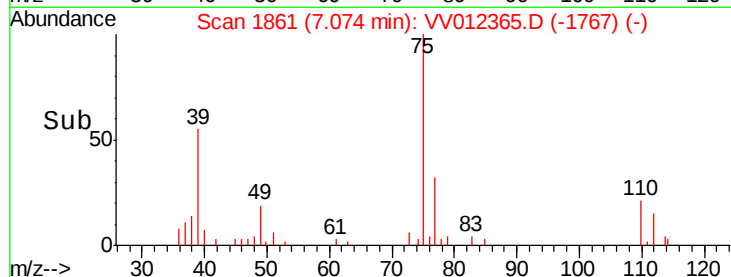
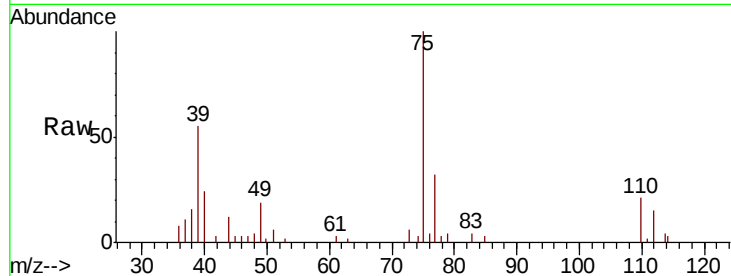




#39
 cis-1,3-Dichloropropene
 Concen: 0.434 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

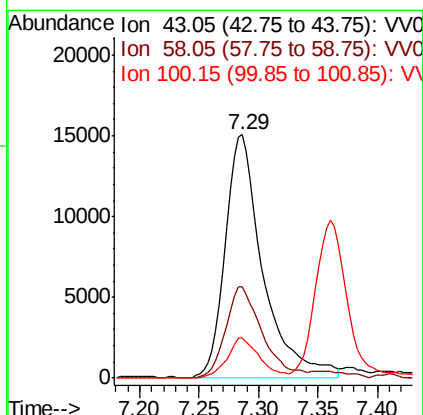
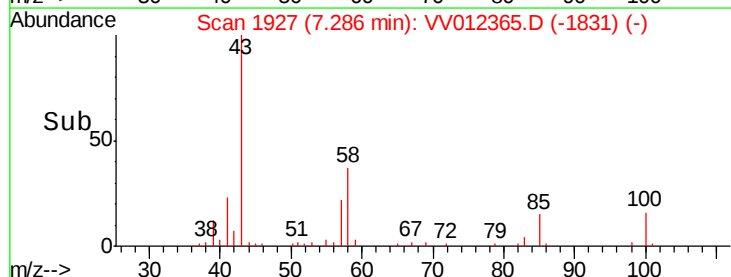
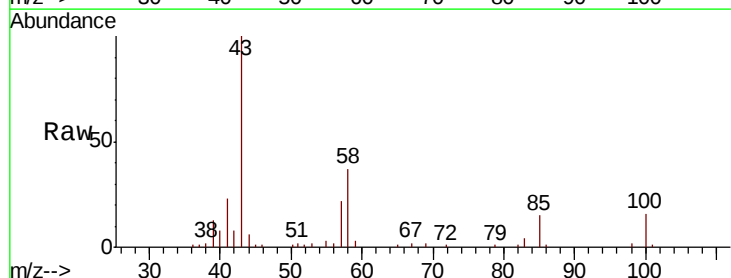
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.532

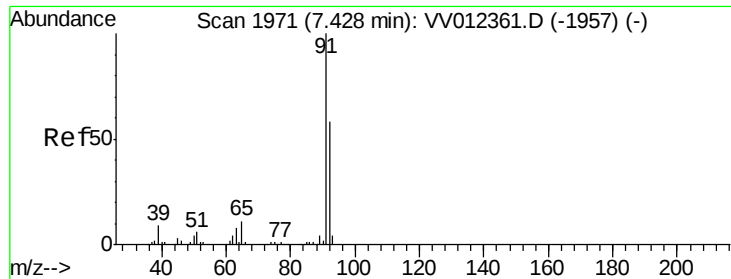
Tgt Ion: 75 Resp: 8967
 Ion Ratio Lower Upper
 75 100
 77 32.2 23.2 43.2



#40
 4-Methyl-2-pentanone
 Concen: 3.989 ug/L
 RT: 7.29 min Scan# 1927
 Delta R.T. 0.01 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Tgt Ion: 43 Resp: 33222
 Ion Ratio Lower Upper
 43 100
 58 36.5 30.7 46.1
 100 14.3 11.8 17.6





#42

Toluene

Concen: 0.411 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

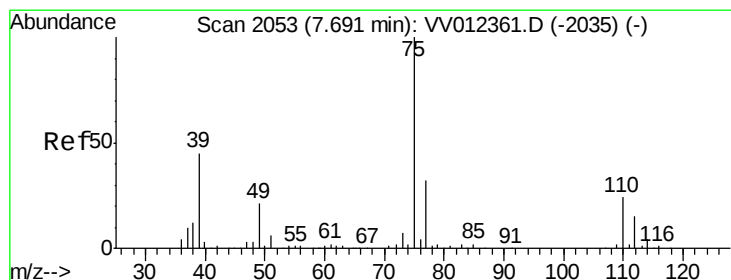
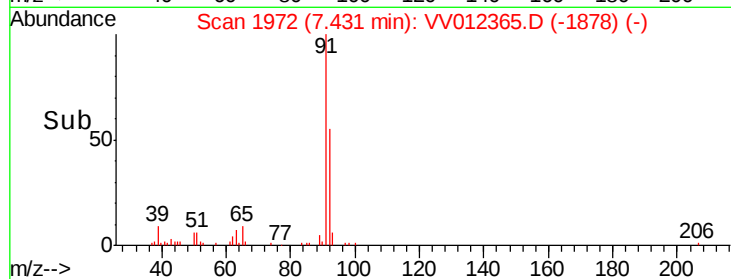
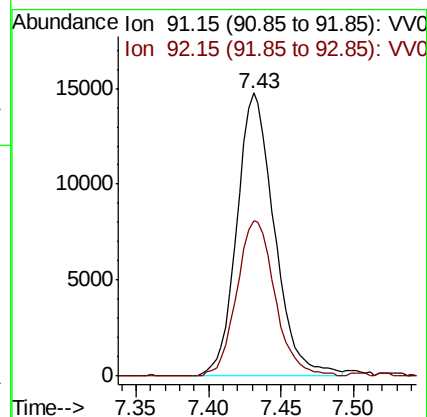
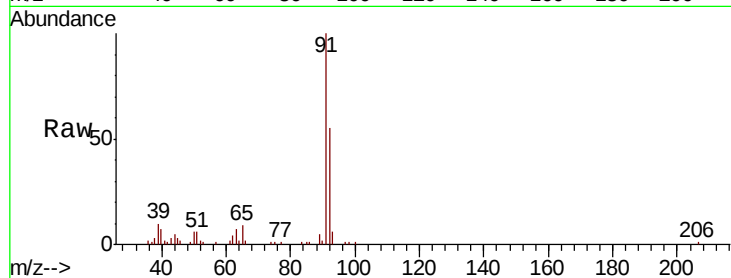
VSTD0.532

Tgt Ion: 91 Resp: 26544

Ion Ratio Lower Upper

91 100

92 54.9 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 0.380 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.01 min

Lab File: VV012365.D

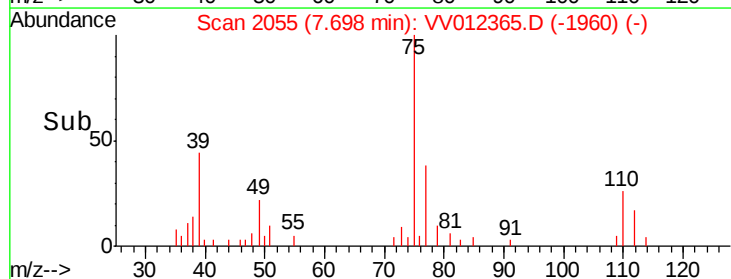
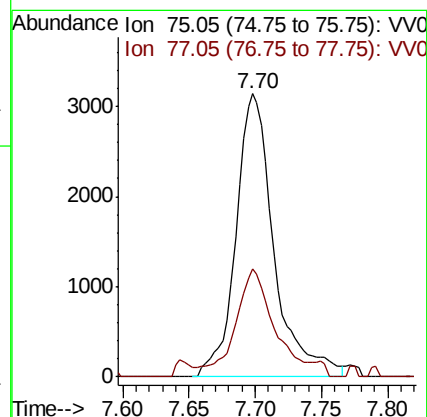
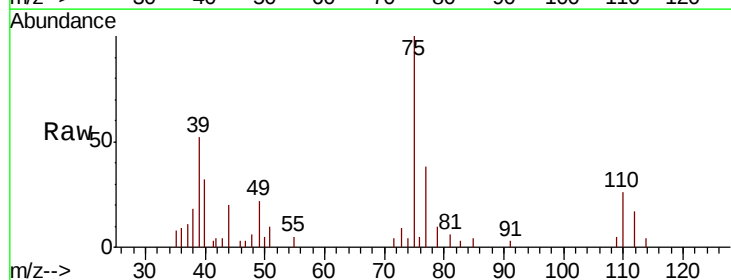
Acq: 23 Aug 2019 15:03

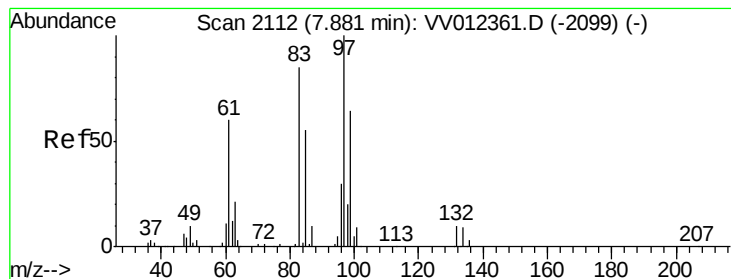
Tgt Ion: 75 Resp: 6265

Ion Ratio Lower Upper

75 100

77 38.1 22.6 42.0





#45

1,1,2-Trichloroethane

Concen: 0.420 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

Tgt Ion: 97 Resp: 4248

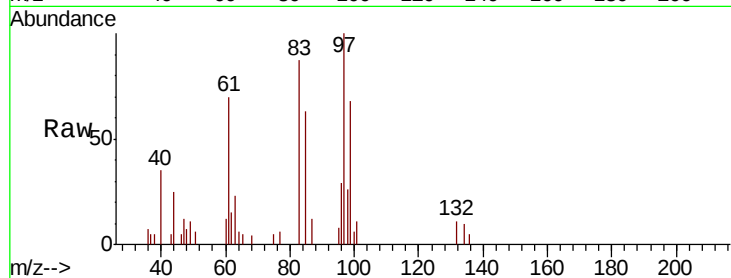
Ion Ratio Lower Upper

97 100

99 68.2 45.0 83.6

83 87.5 59.3 110.1

85 63.4 38.8 72.0



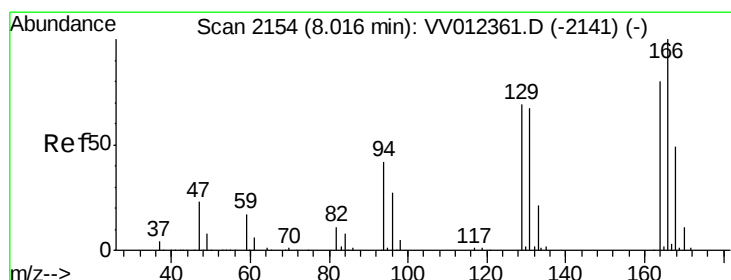
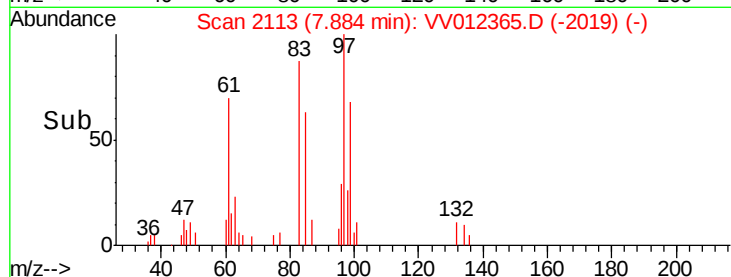
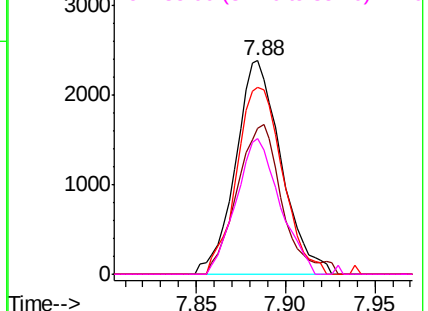
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 0.451 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Tgt Ion: 164 Resp: 6107

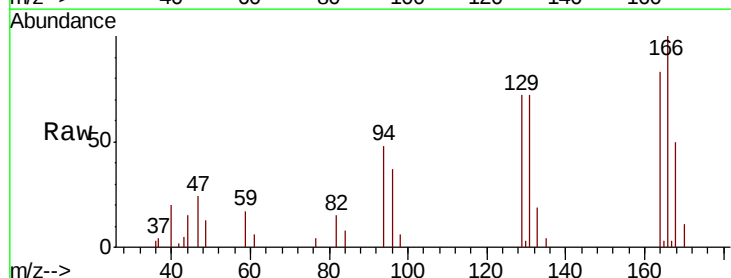
Ion Ratio Lower Upper

164 100

129 86.8 60.6 112.6

131 87.0 58.8 109.2

166 120.8 87.6 162.8



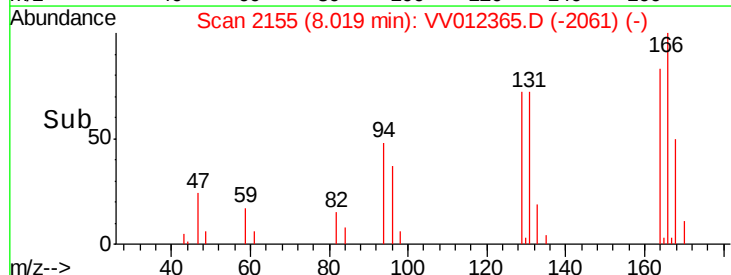
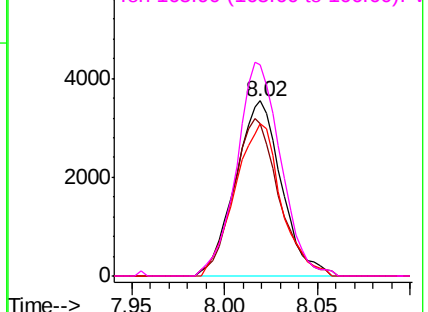
Abundance

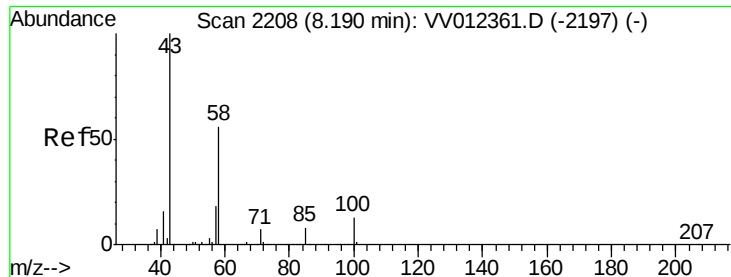
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

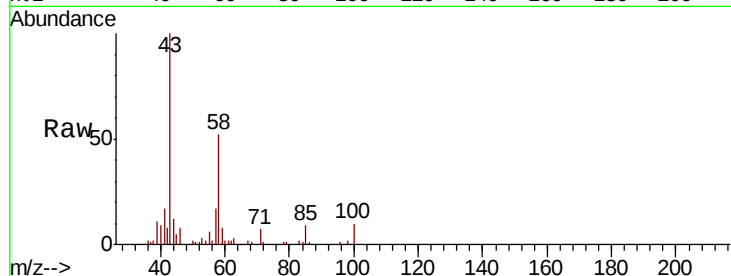




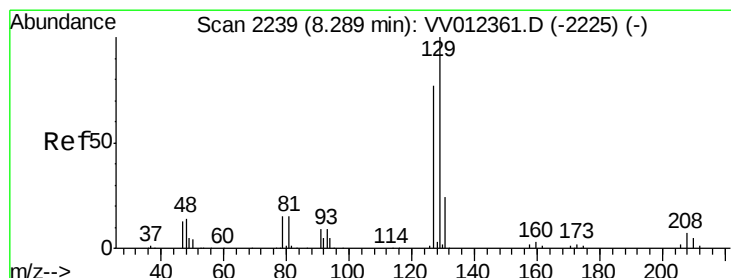
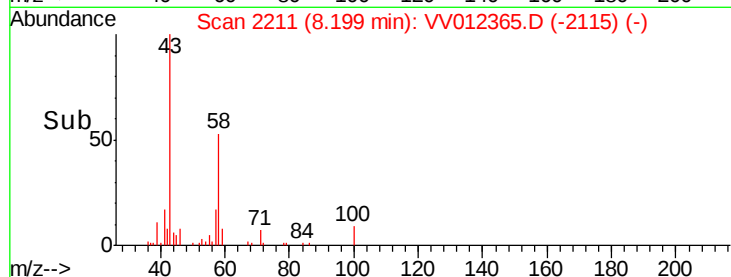
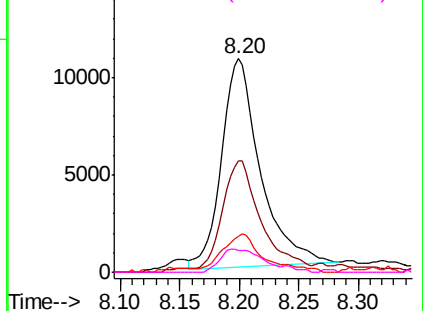
#48
2-Hexanone
Concen: 4.144 ug/L
RT: 8.20 min Scan# 2211
Delta R.T. 0.01 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Tgt Ion:	43	Resp:	24334
Ion	Ratio	Lower	Upper
43	100		
58	50.5	46.3	69.5
57	19.2	14.9	22.3
100	11.7	9.7	14.5

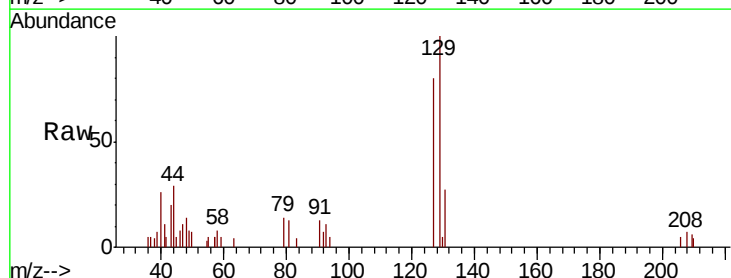


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

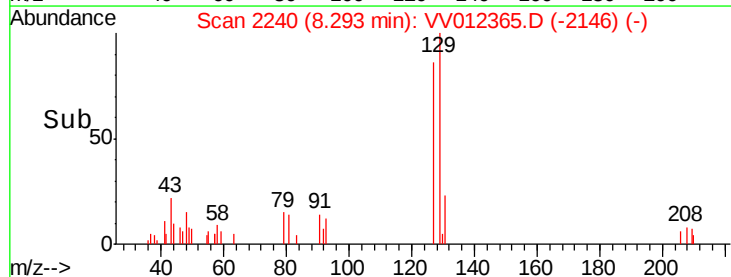
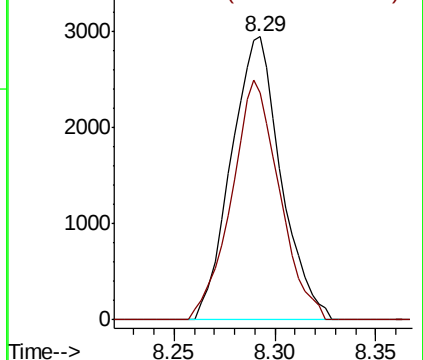


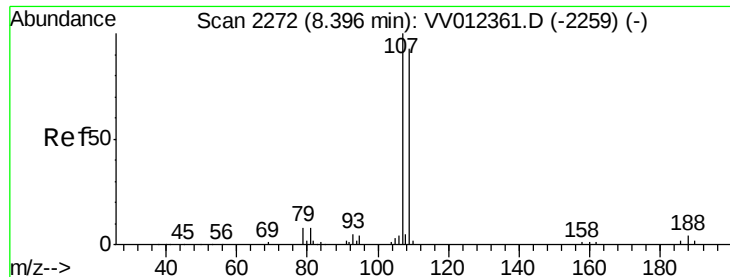
#49
Dibromochloromethane
Concen: 0.407 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Tgt Ion:	129	Resp:	5097
Ion	Ratio	Lower	Upper
129	100		
127	80.2	53.8	99.8



Abundance Ion 128.95 (128.65 to 129.65): VV0
Ion 126.90 (126.60 to 127.60): VV0

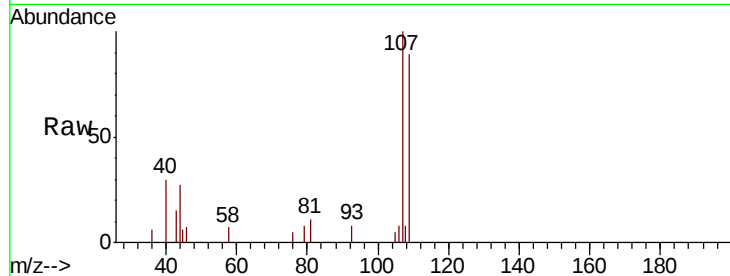




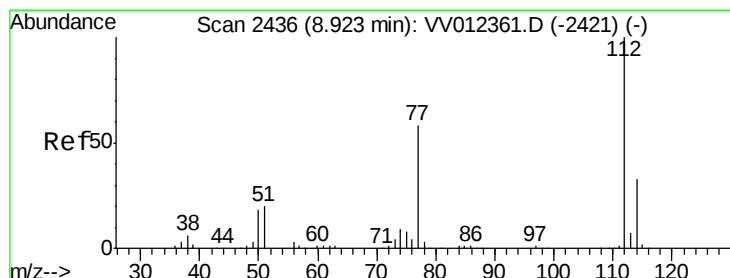
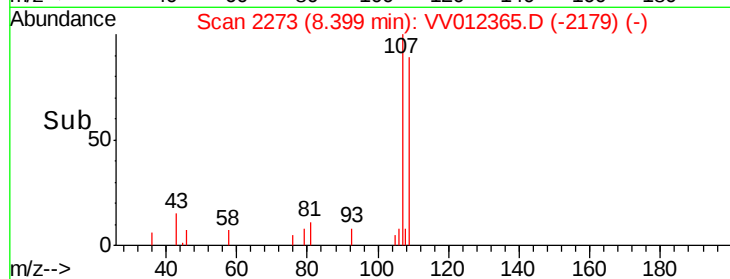
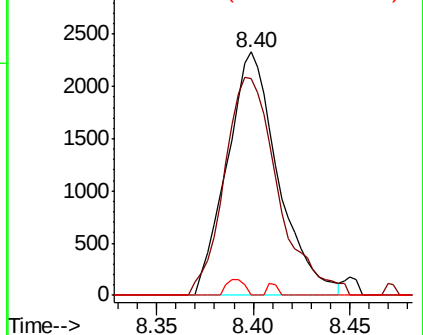
#50
1,2-Dibromoethane
Concen: 0.439 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Tgt Ion:107 Resp: 4283
Ion Ratio Lower Upper
107 100
109 89.2 64.9 120.5
188 0.0 3.5 5.3#

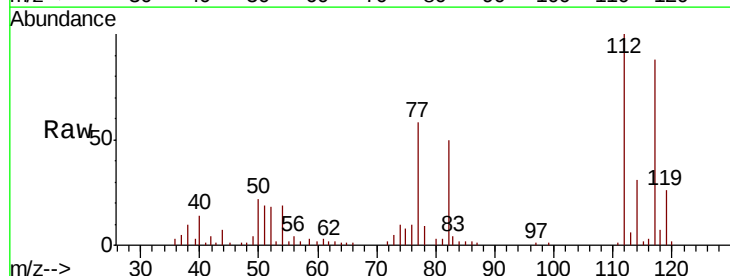


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

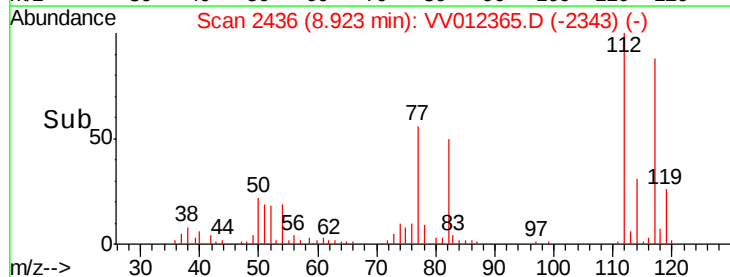
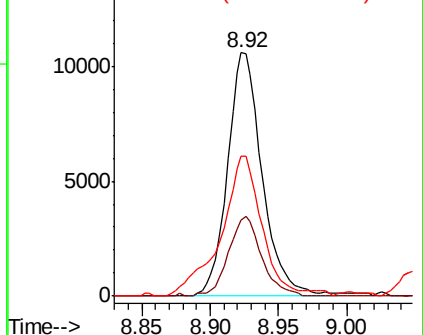


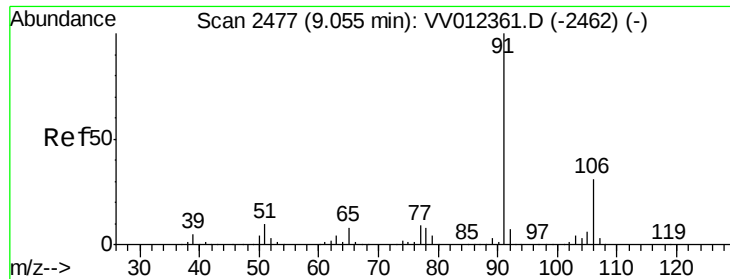
#51
Chlorobenzene
Concen: 0.448 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012365.D
Acq: 23 Aug 2019 15:03

Tgt Ion:112 Resp: 18683
Ion Ratio Lower Upper
112 100
114 31.2 23.0 42.6
77 57.6 46.4 69.6



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.397 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

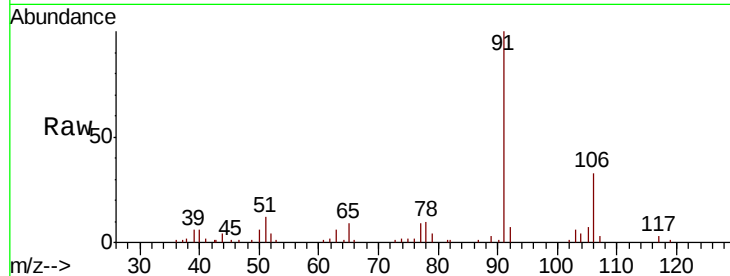
VSTD0.532

Tgt Ion: 91 Resp: 27290

Ion Ratio Lower Upper

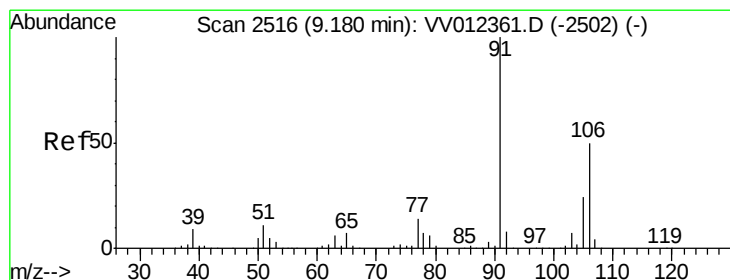
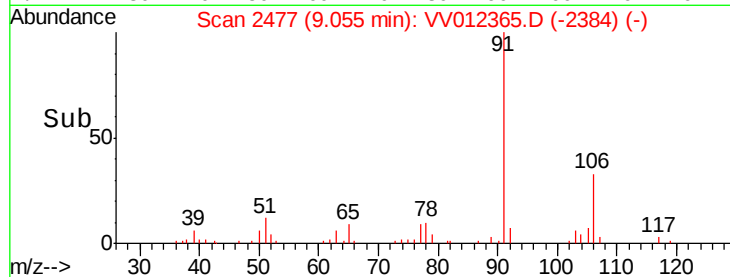
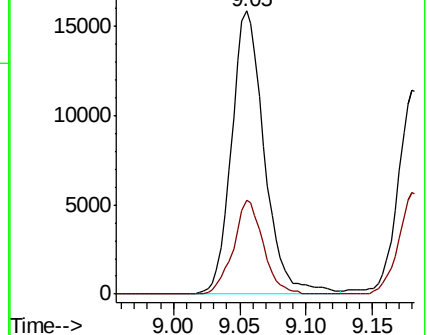
91 100

106 33.2 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV012365.D (-2462) (-)

Ion 106.15 (105.85 to 106.85): VV012365.D (-2462) (-)



#53

m,p-xylene

Concen: 0.375 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012365.D

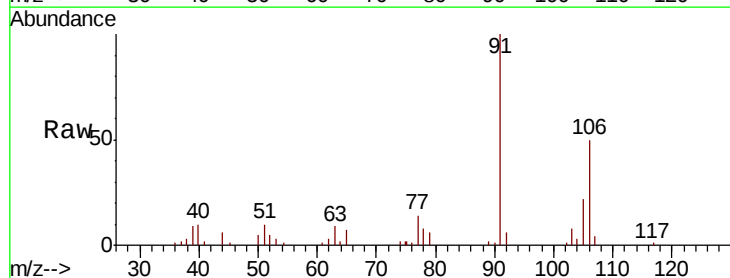
Acq: 23 Aug 2019 15:03

Tgt Ion: 106 Resp: 9840

Ion Ratio Lower Upper

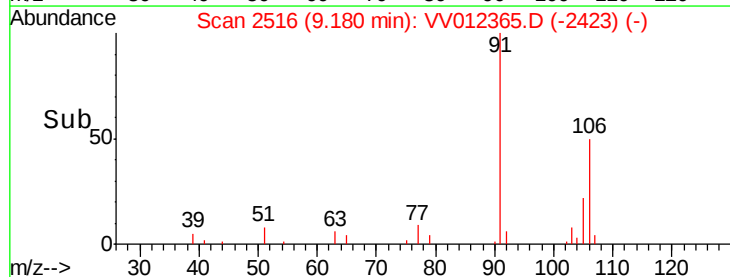
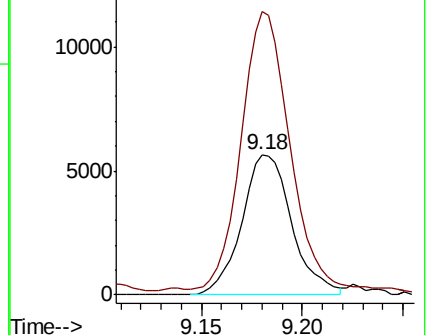
106 100

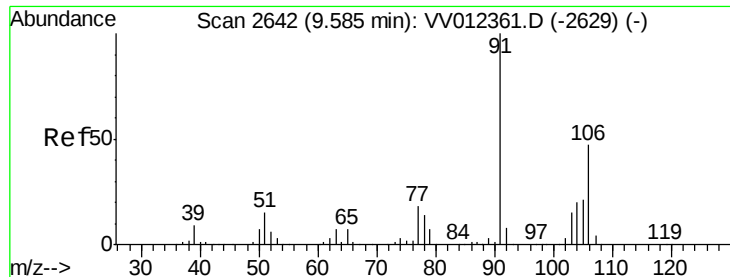
91 201.7 140.8 261.4



Abundance Ion 106.15 (105.85 to 106.85): VV012365.D (-2502) (-)

Ion 91.15 (90.85 to 91.85): VV012365.D (-2502) (-)





#54

o-xylene

Concen: 0.379 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

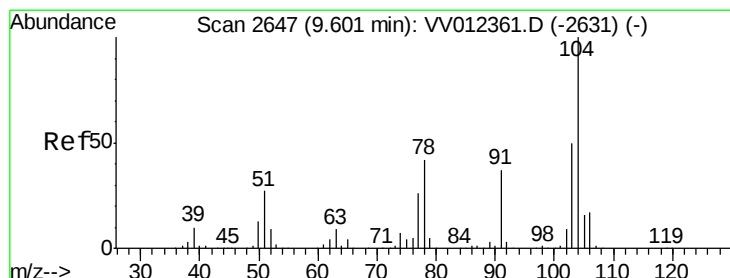
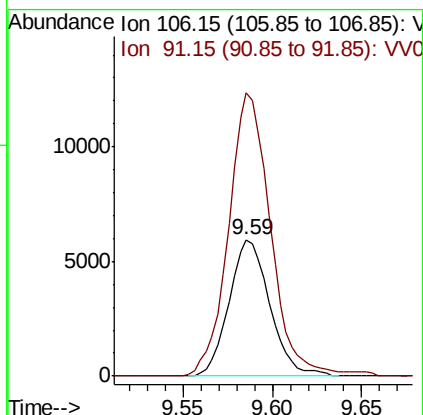
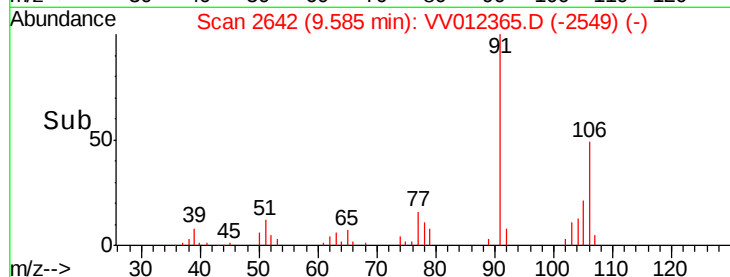
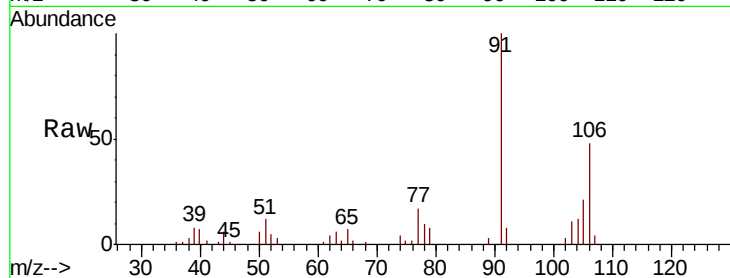
VSTD0.532

Tgt Ion:106 Resp: 9436

Ion Ratio Lower Upper

106 100

91 207.8 149.5 277.7



#55

Styrene

Concen: 0.343 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012365.D

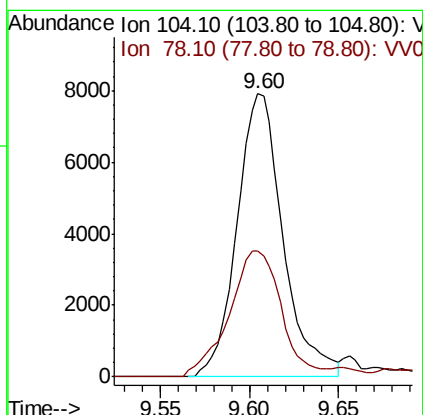
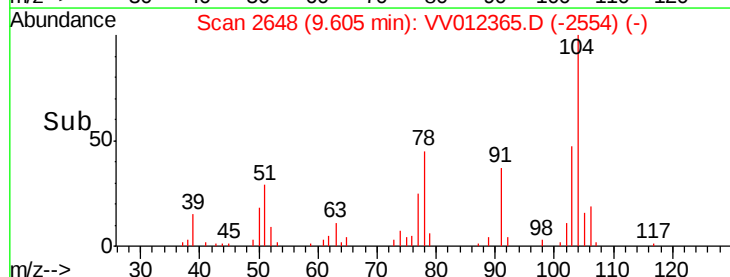
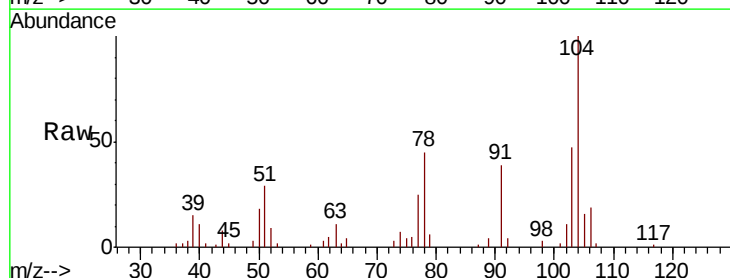
Acq: 23 Aug 2019 15:03

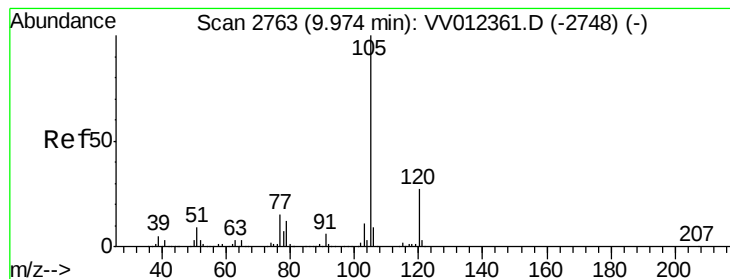
Tgt Ion:104 Resp: 14266

Ion Ratio Lower Upper

104 100

78 44.6 29.8 55.3





#56

Isopropylbenzene

Concen: 0.368 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

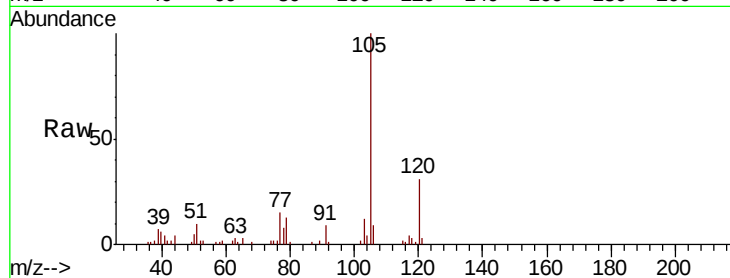
Tgt Ion:105 Resp: 24609

Ion Ratio Lower Upper

105 100

120 28.0 21.5 32.3

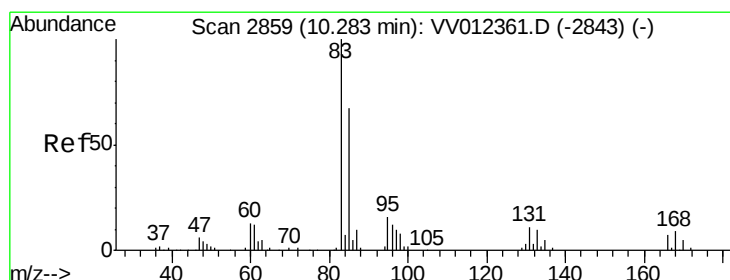
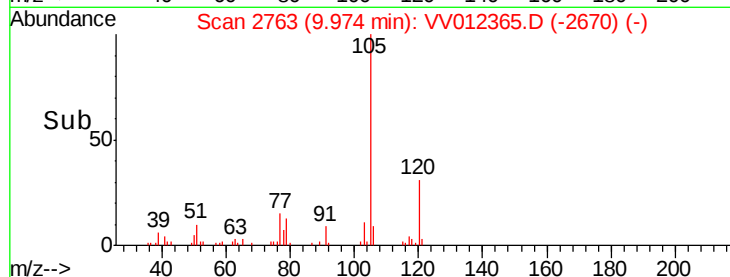
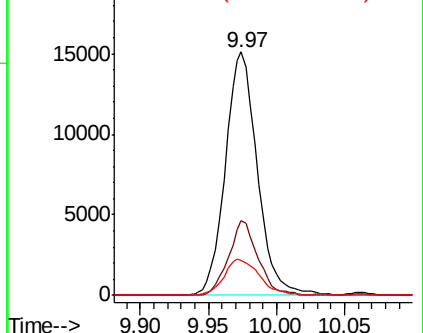
77 16.6 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.390 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

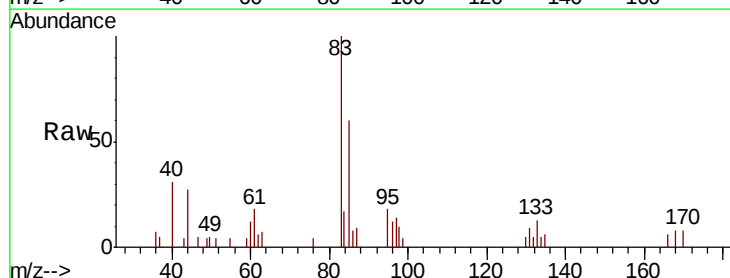
Tgt Ion: 83 Resp: 4523

Ion Ratio Lower Upper

83 100

85 60.2 46.5 86.5

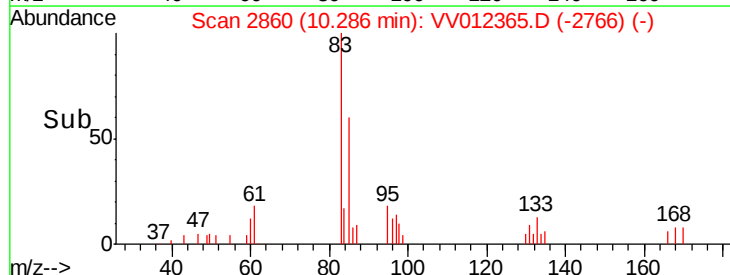
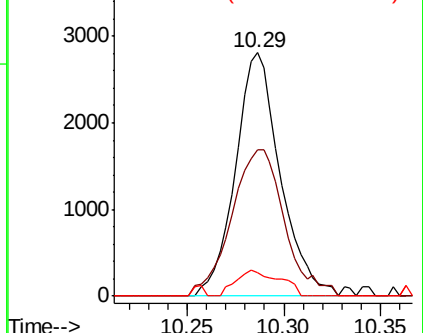
131 9.5 8.9 13.3

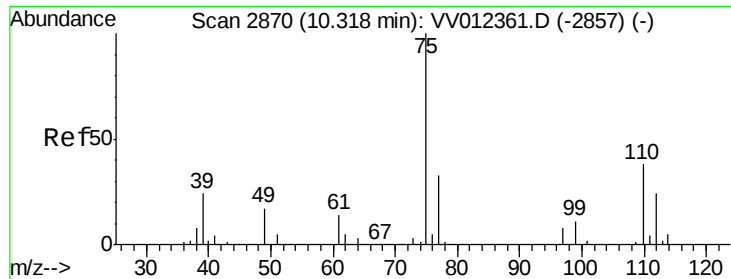


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

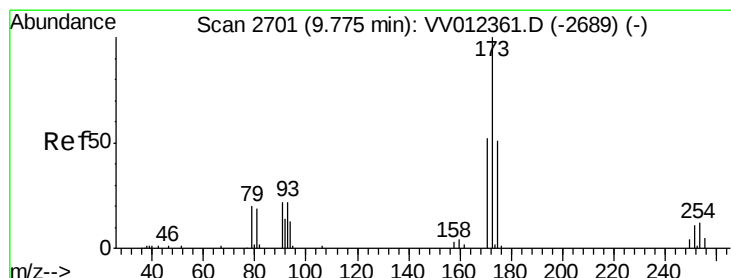
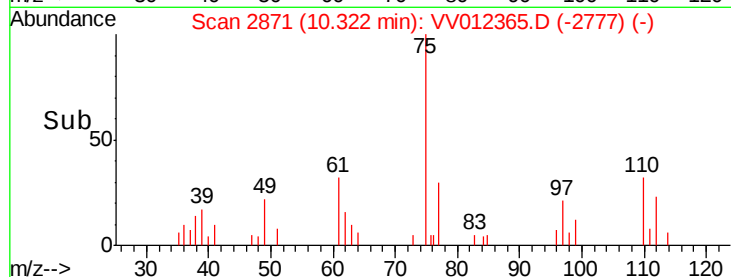
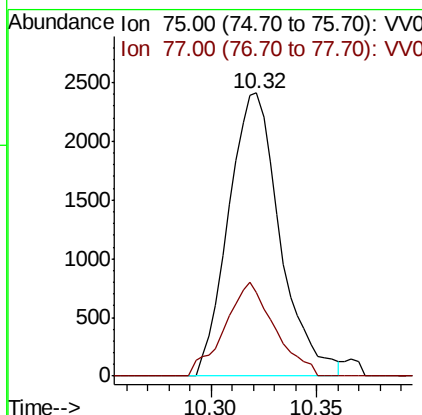
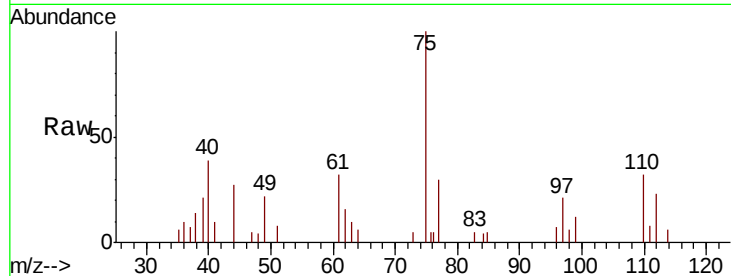




#59
 1,2,3-Trichloropropane
 Concen: 0.479 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

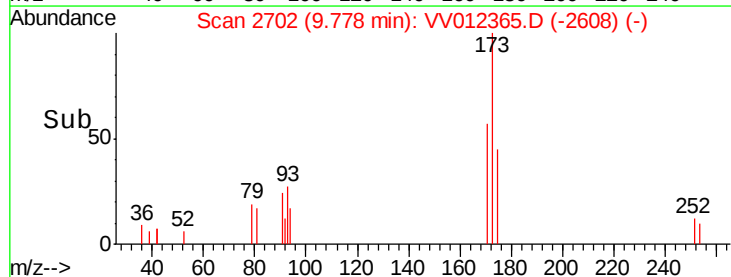
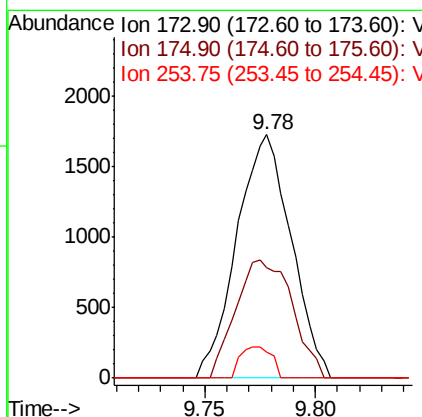
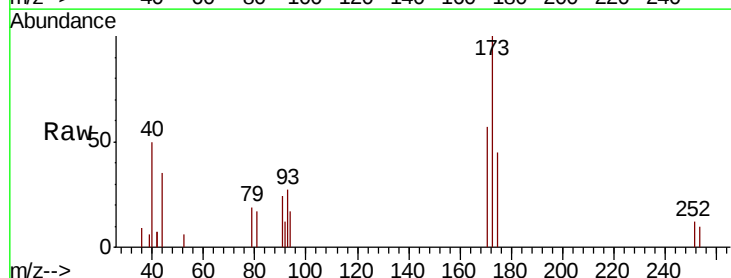
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD0.532

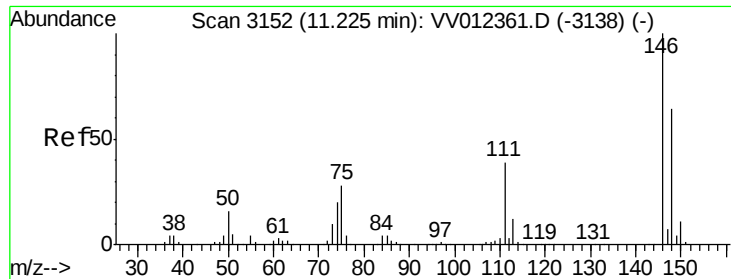
Tgt Ion: 75 Resp: 4101
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.9 38.9



#61
 Bromoform
 Concen: 0.523 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Tgt Ion: 173 Resp: 2950
 Ion Ratio Lower Upper
 173 100
 175 50.1 40.7 61.1
 254 7.4 9.5 14.3#

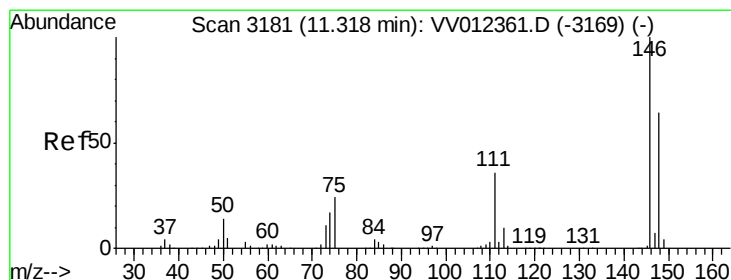
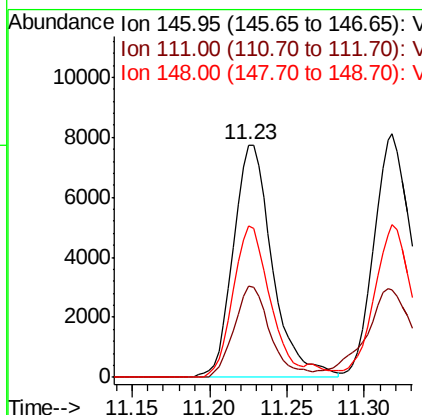
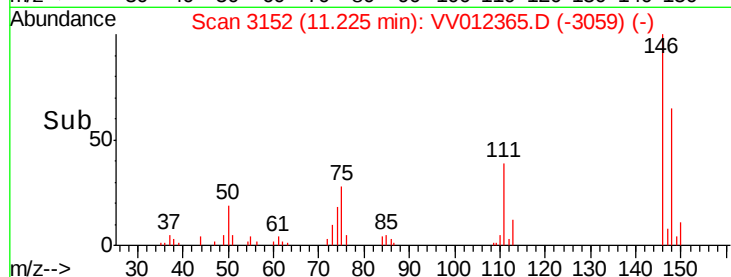
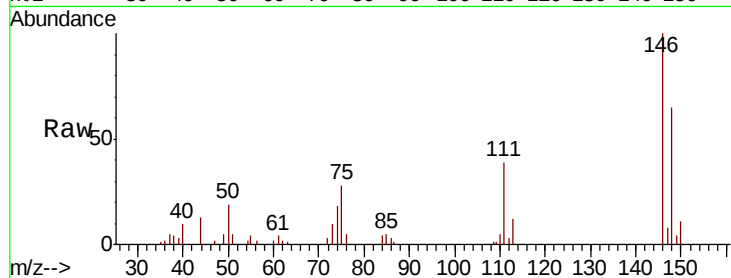




#62
 1,3-Dichlorobenzene
 Concen: 0.469 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

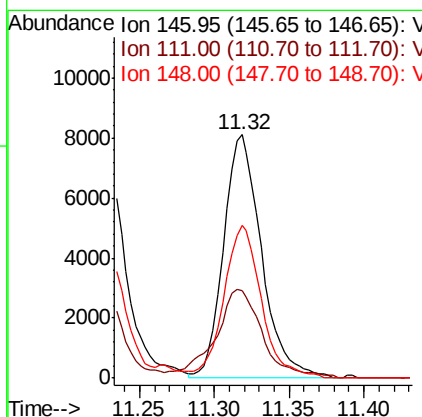
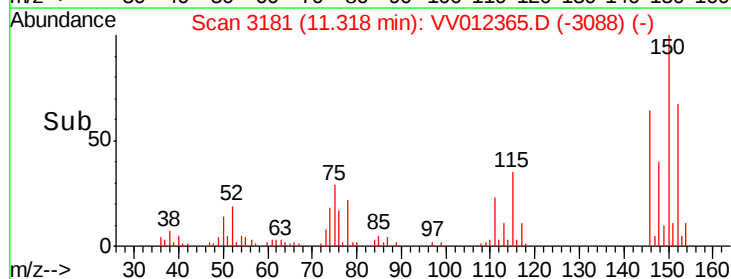
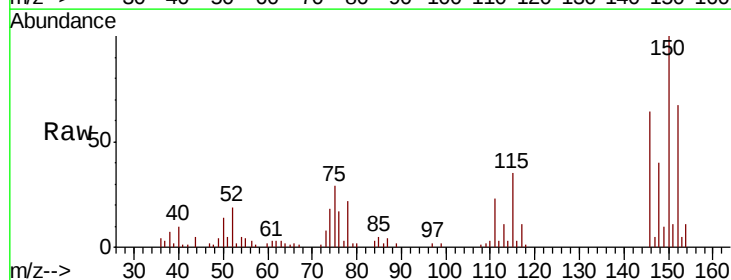
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.532

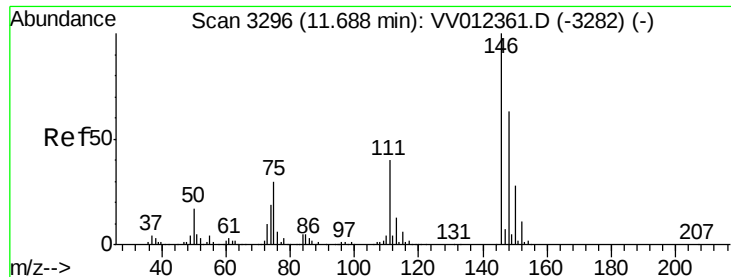
Tgt Ion:146 Resp: 13606
 Ion Ratio Lower Upper
 146 100
 111 39.3 27.0 50.2
 148 65.0 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 0.495 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Tgt Ion:146 Resp: 14338
 Ion Ratio Lower Upper
 146 100
 111 36.0 25.7 47.7
 148 62.6 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 0.475 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

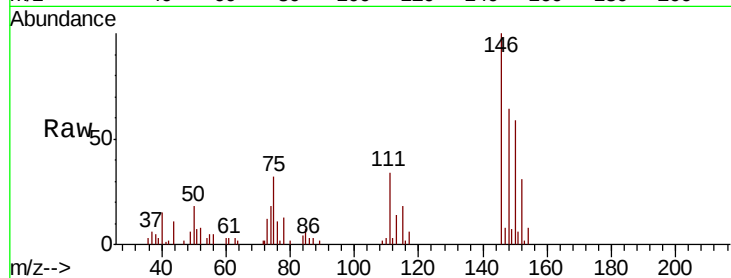
Tgt Ion:146 Resp: 12662

Ion Ratio Lower Upper

146 100

111 34.0 31.9 47.9

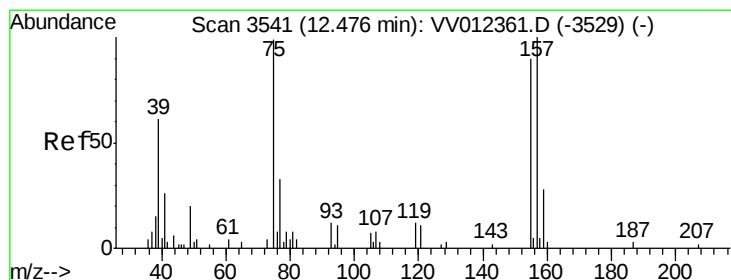
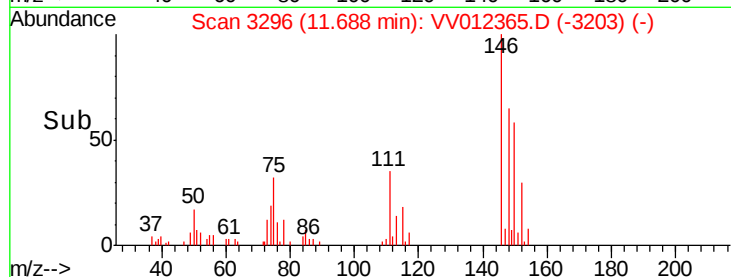
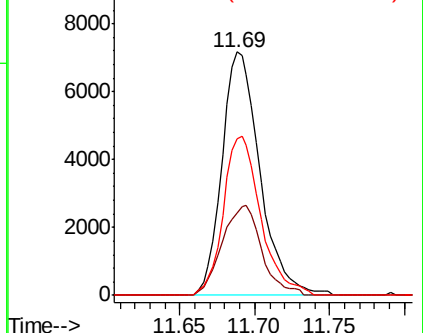
148 64.4 50.2 75.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.438 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

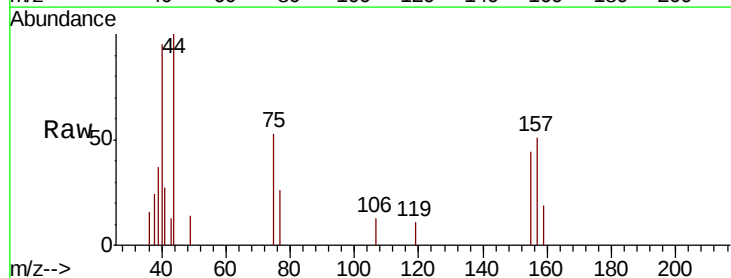
Tgt Ion: 75 Resp: 740

Ion Ratio Lower Upper

75 100

155 81.5 72.6 109.0

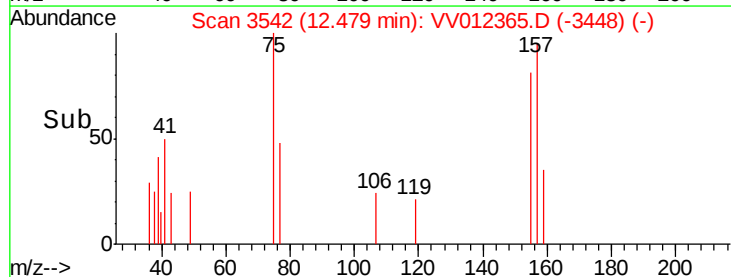
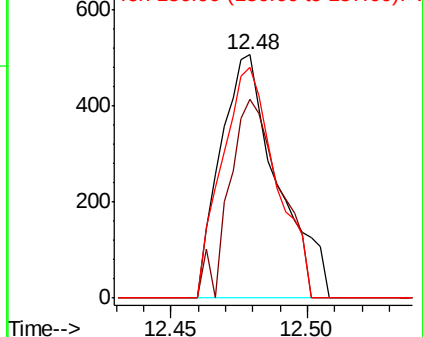
157 94.9 80.5 120.7

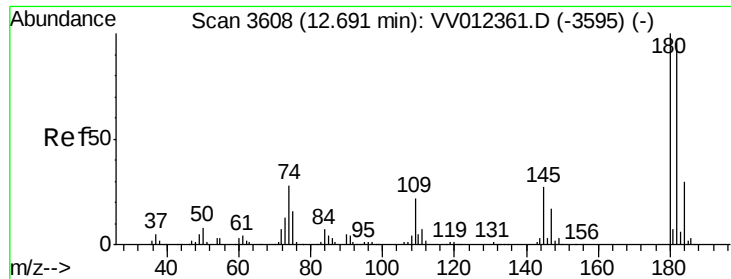


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

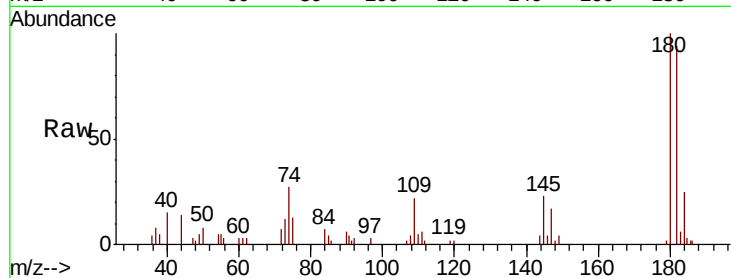




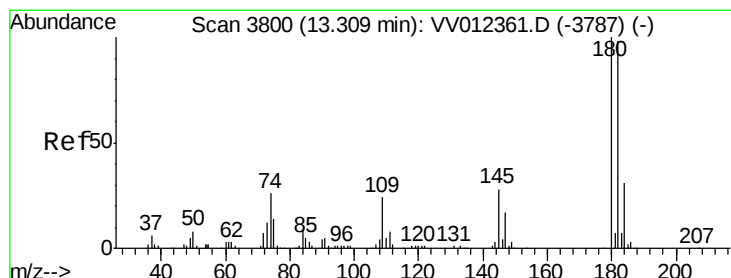
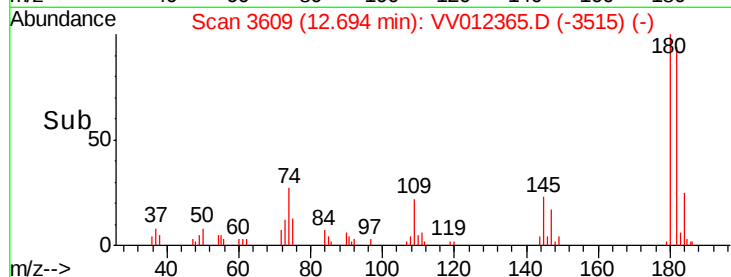
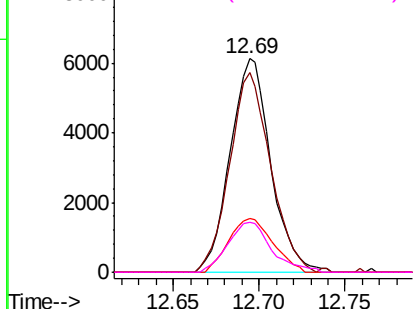
#67
 1,3,5-Trichlorobenzene
 Concen: 0.456 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.532

Tgt Ion:180 Resp: 10045
 Ion Ratio Lower Upper
 180 100
 182 93.9 76.4 114.6
 184 27.2 23.9 35.9
 145 25.1 22.1 33.1

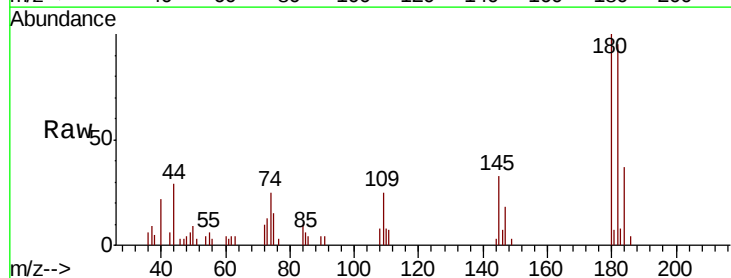


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

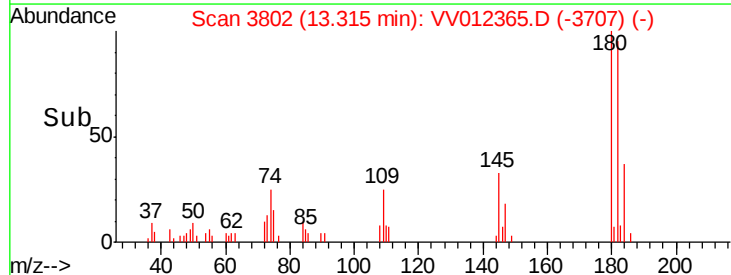
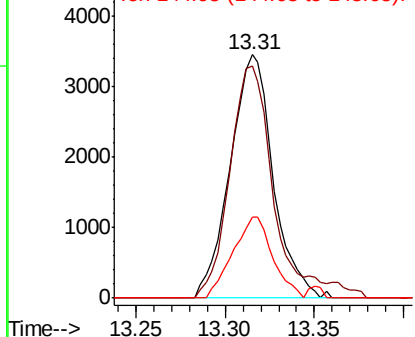


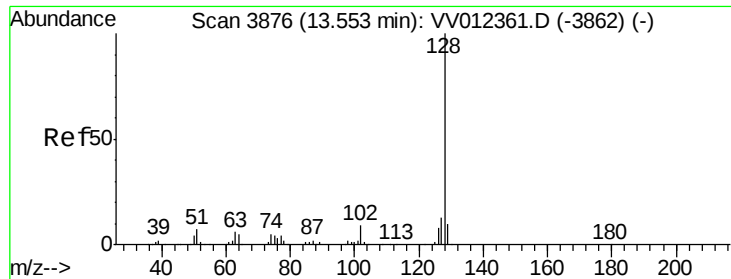
#68
 1,2,4-trichlorobenzene
 Concen: 0.359 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.01 min
 Lab File: VV012365.D
 Acq: 23 Aug 2019 15:03

Tgt Ion:180 Resp: 5820
 Ion Ratio Lower Upper
 180 100
 182 98.0 77.3 115.9
 145 30.7 22.6 34.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.355 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.01 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.532

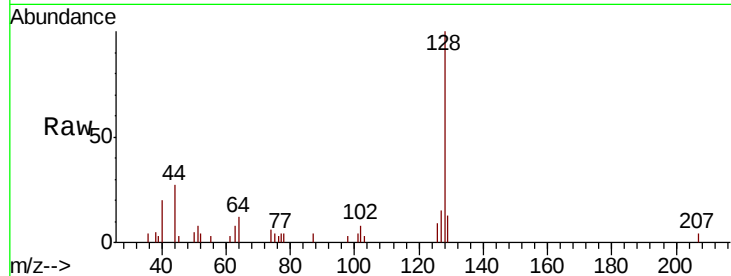
Tgt Ion:128 Resp: 8134

Ion Ratio Lower Upper

128 100

129 10.1 8.6 12.8

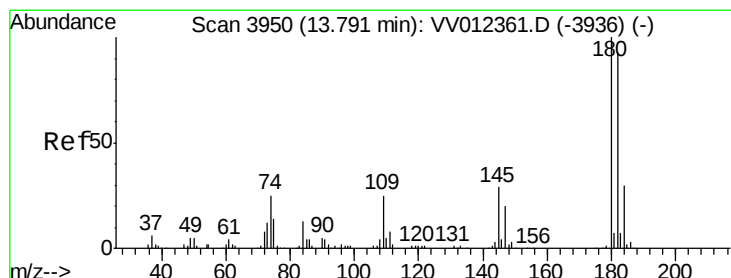
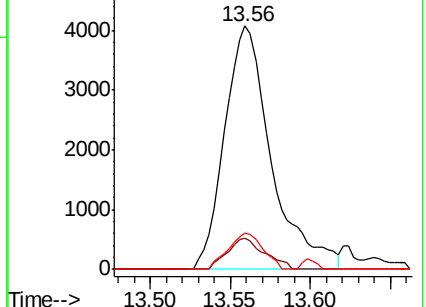
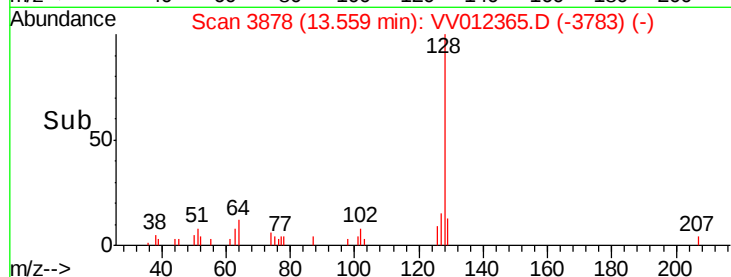
127 11.0 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.373 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV012365.D

Acq: 23 Aug 2019 15:03

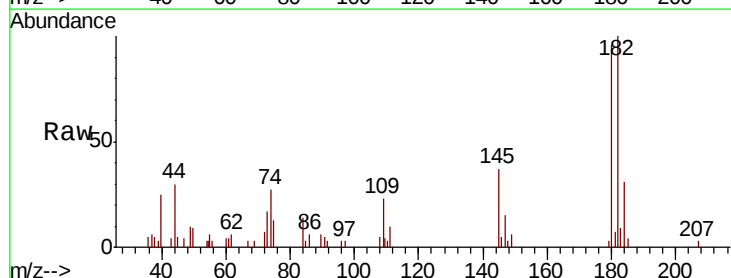
Tgt Ion:180 Resp: 5688

Ion Ratio Lower Upper

180 100

182 102.8 75.1 112.7

145 36.4 23.4 35.2#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

