

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033665.D
 Acq On : 6 May 2019 19:09
 Operator : SY/AP
 Sample : K2241-14 0.03PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 07 04:10:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	973423	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2317073	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2366073	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1937816	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.22	85	6711	0.029	ppbv	98
3) Chlorodifluoromethane	3.01	51	7641	0.054	ppbv	94
4) Chloromethane	3.17	50	1446	0.020	ppbv	89
5) Vinyl Chloride	3.29	62	2075	0.029	ppbv	89
6) Bromomethane	3.52	94	881	0.020	ppbv #	31
7) Chloroethane	3.60	64	769	0.030	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	6711	0.036	ppbv #	77
9) Propene	3.04	41	1862	0.035	ppbv #	30
11) Trichlorofluoromethane	4.00	101	5457	0.026	ppbv	86
14) Bromoethene	3.79	108	1105	0.020	ppbv #	1
15) Acetone	3.92	43	16489	0.114	ppbv	91
16) 1,3-Butadiene	3.36	39	941	0.015	ppbv #	7
18) 1,1-Dichloroethene	4.35	96	1298	0.021	ppbv #	76
19) Isopropyl Alcohol	4.05	45	2444	0.027	ppbv #	93
20) Methylene Chloride	4.40	84	2240	0.041	ppbv #	68
21) Allyl Chloride	4.47	41	977	0.011	ppbv #	19
22) trans-1,2-Dichloroethene	4.95	96	823	0.013	ppbv #	67
24) 1,1-Dichloroethane	5.09	63	3785	0.027	ppbv #	89
25) Ethyl Acetate	5.78	43	8844	0.038	ppbv #	90
26) Hexane	5.77	57	2181	0.022	ppbv #	1
27) Carbon Disulfide	4.62	76	2992	0.022	ppbv #	1
28) Methyl tert-Butyl Ether	5.14	73	4952	0.029	ppbv	91
29) Chloroform	5.84	83	6411	0.035	ppbv #	83
31) cis-1,2-Dichloroethene	5.63	61	2384	0.024	ppbv #	78
32) 1,1,1-Trichloroethane	6.61	97	3149	0.017	ppbv #	1
34) 2-Butanone	5.35	43	4094	0.028	ppbv #	83
35) Carbon Tetrachloride	7.13	117	4166	0.022	ppbv #	91
36) Benzene	7.00	78	4706	0.023	ppbv #	88
37) 1,2-Dichloroethane	6.40	62	2904	0.020	ppbv #	85
38) Trichloroethene	7.95	130	878	0.012	ppbv #	44
39) 1,2-Dichloropropane	7.28	63	614782	7.939	ppbv #	23
41) Tetrahydrofuran	6.17	42	768	0.010	ppbv #	36
42) Bromodichloromethane	7.91	83	7265	0.039	ppbv #	78
44) 2,2,4-Trimethylpentane	7.99	57	5568	0.016	ppbv #	35
45) t-1,3-Dichloropropene	9.40	75	1029	0.011	ppbv	92
47) 1,1,2-Trichloroethane	9.61	97	917	0.010	ppbv #	38
48) Dibromochloromethane	10.44	129	1934	0.013	ppbv #	10
54) 1,2-Dibromoethane	10.74	107	1613	0.012	ppbv #	75
56) 1,1,1,2-Tetrachloroethane	12.28	131	1796	0.016	ppbv #	3
57) Chlorobenzene	12.30	112	4317	0.022	ppbv #	62
62) Isopropylbenzene	14.81	105	5710	0.015	ppbv #	49

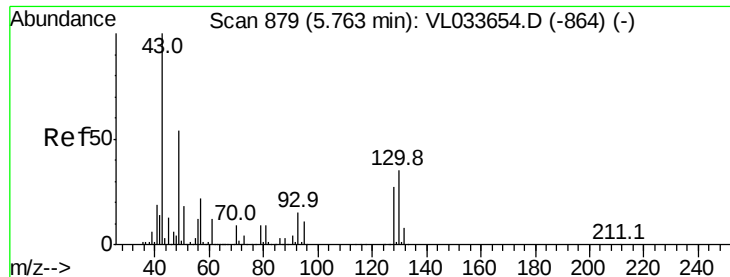
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
Data File : VL033665.D
Acq On : 6 May 2019 19:09
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Instrument :
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	17.15	91	1982	0.013	ppbv #	1
75) 1,3-Dichlorobenzene	17.16	146	4443	0.021	ppbv #	4
77) 1,2-Dichlorobenzene	17.98	146	2718	0.014	ppbv #	18
78) Hexachloro-1,3-Butadiene	23.53	225	4616	0.030	ppbv #	23
80) Naphthalene,2-methyl-	25.11	142	3787	0.032	ppbv	89

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

ClientSampleId :

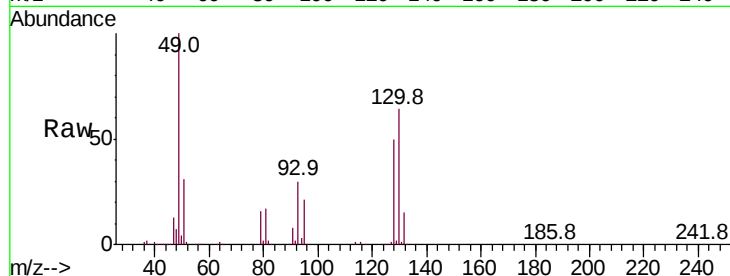
Tot Ion: 49 Resp: 973423

Ion Ratio Lower Upper

49 100

128 50.6 24.8 74.3

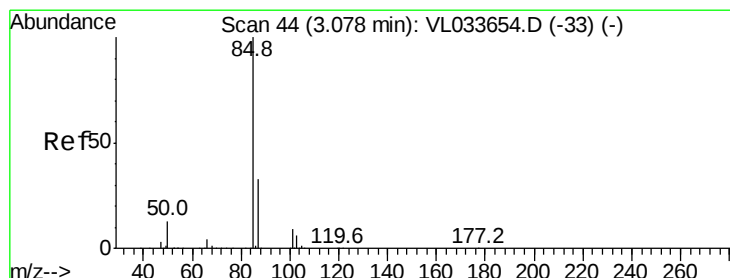
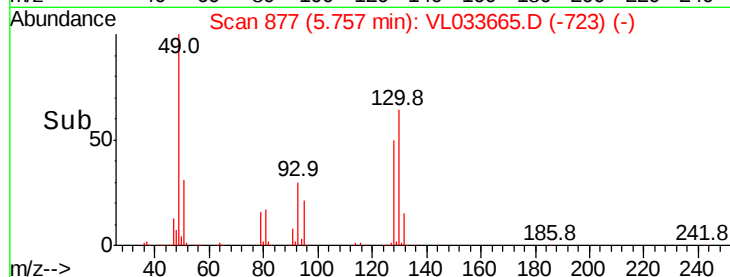
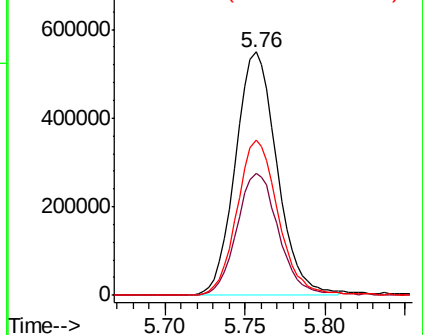
130 63.8 32.1 96.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.029 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.14 min

Lab File: VL033665.D

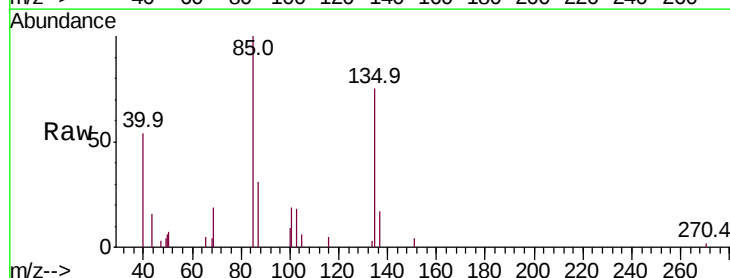
Acq: 6 May 2019 19:09

Tgt Ion: 85 Resp: 6711

Ion Ratio Lower Upper

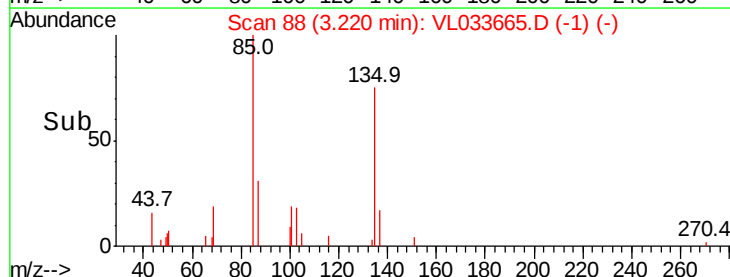
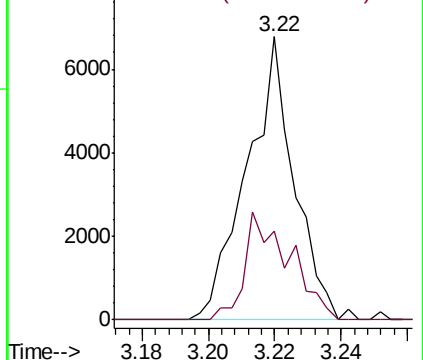
85 100

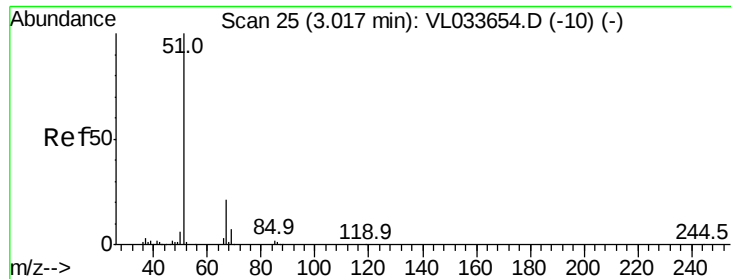
87 31.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

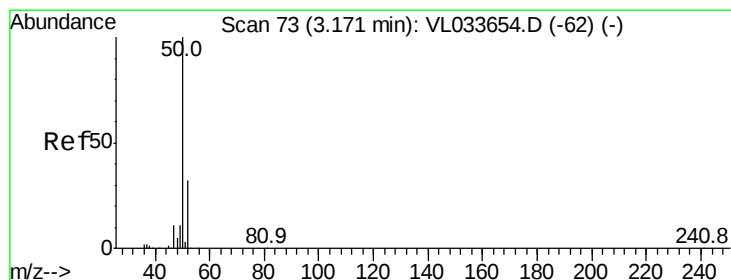
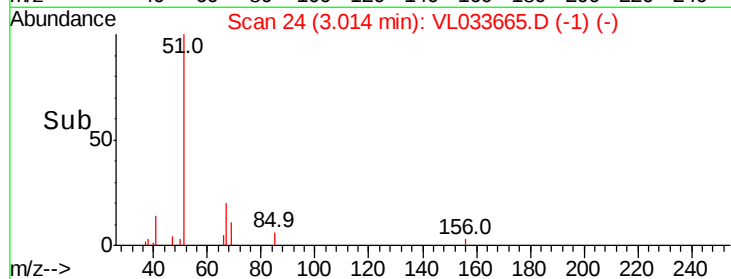
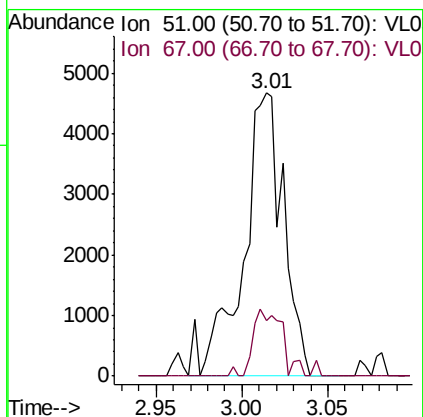
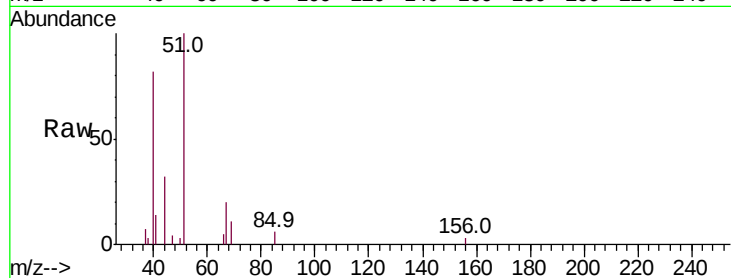




#3
 Chlorodifluoromethane
 Concen: 0.054 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. -0.00 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

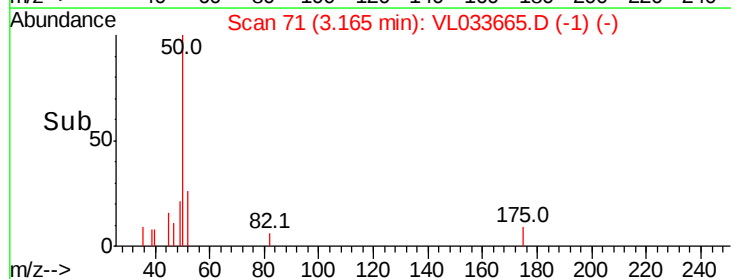
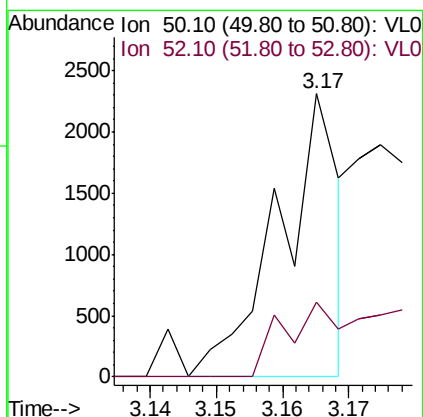
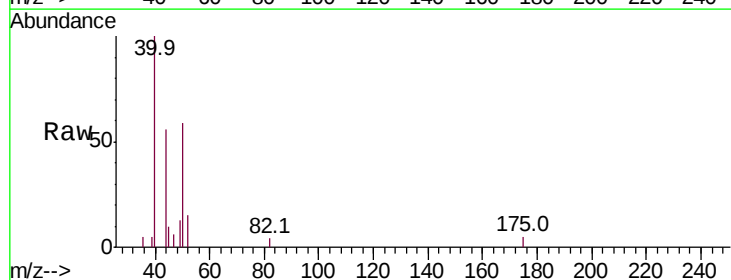
Instrument :
 MSVOA_L
 ClientSampleId :

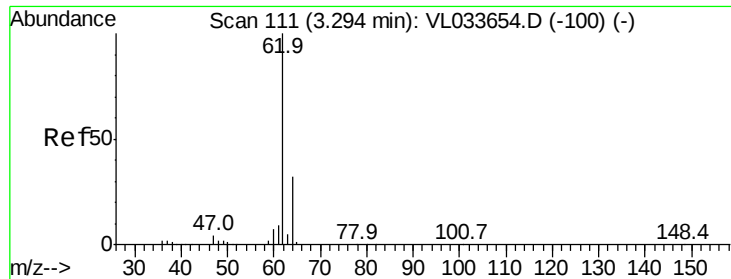
Tot Ion: 51 Resp: 7641
 Ion Ratio Lower Upper
 51 100
 67 16.9 15.7 23.5



#4
 Chloromethane
 Concen: 0.020 ppbv
 RT: 3.17 min Scan# 71
 Delta R.T. -0.01 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Tgt Ion: 50 Resp: 1446
 Ion Ratio Lower Upper
 50 100
 52 26.3 25.8 38.8





#5

Vinyl Chloride

Concen: 0.029 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

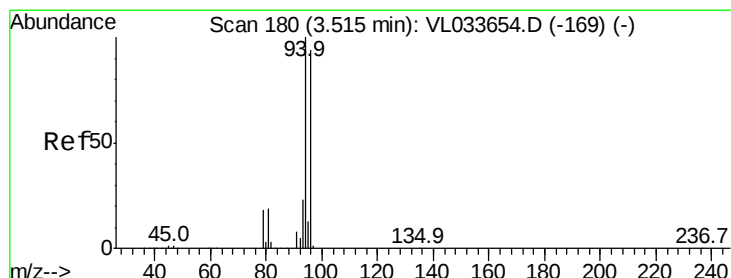
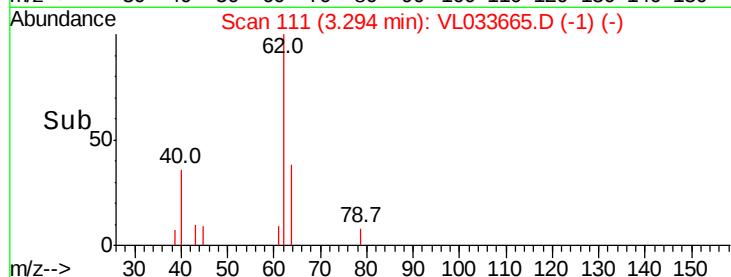
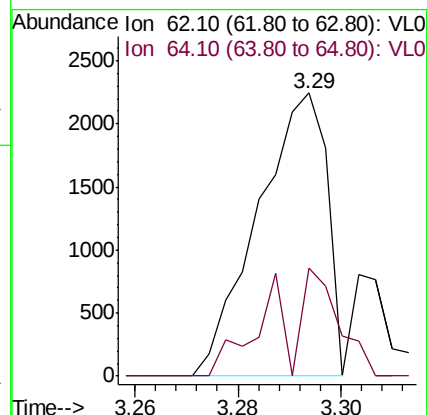
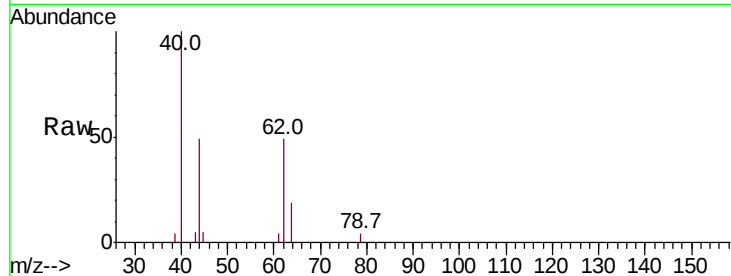
ClientSampled :

Tot Ion: 62 Resp: 2075

Ion Ratio Lower Upper

62 100

64 38.4 25.6 38.4



#6

Bromomethane

Concen: 0.020 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033665.D

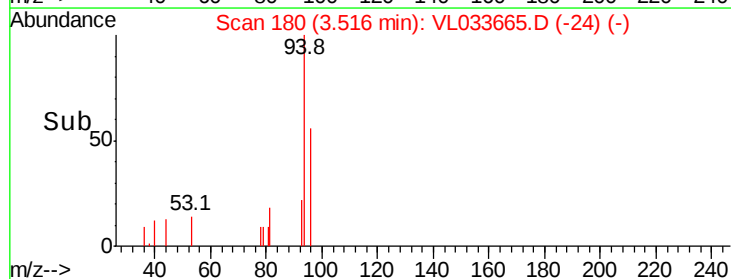
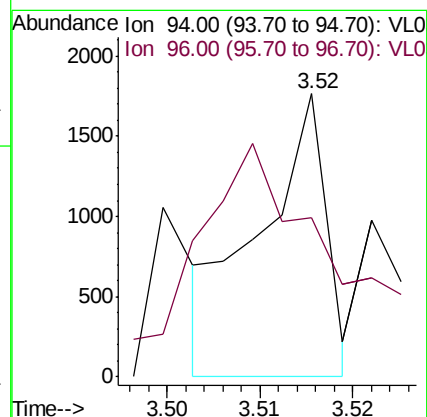
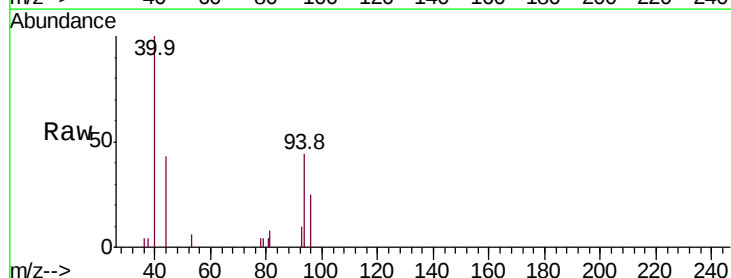
Acq: 6 May 2019 19:09

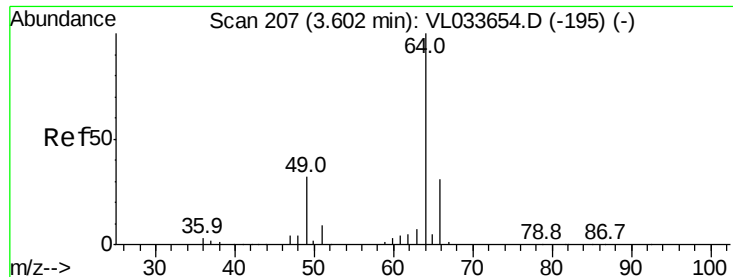
Tgt Ion: 94 Resp: 881

Ion Ratio Lower Upper

94 100

96 27.0 75.2 112.8#





#7

Chloroethane

Concen: 0.030 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

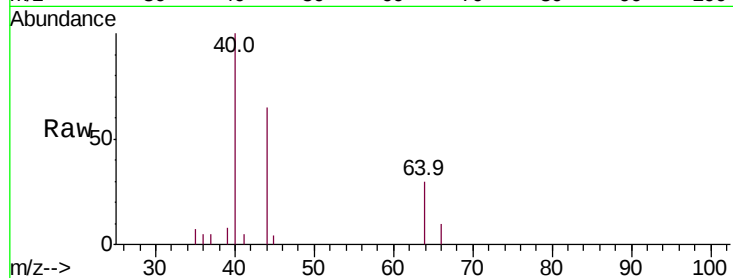
ClientSampleId :

Tot Ion: 64 Resp: 769

Ion Ratio Lower Upper

64 100

66 33.1 25.1 37.7



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

1200

1000

800

600

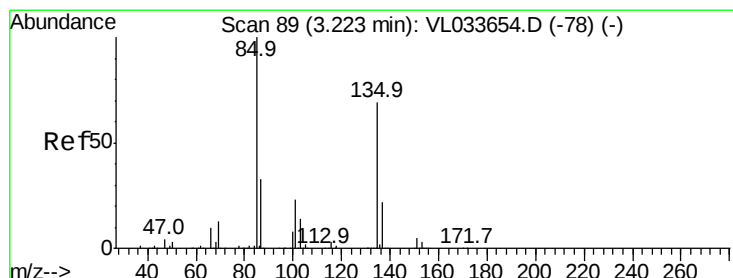
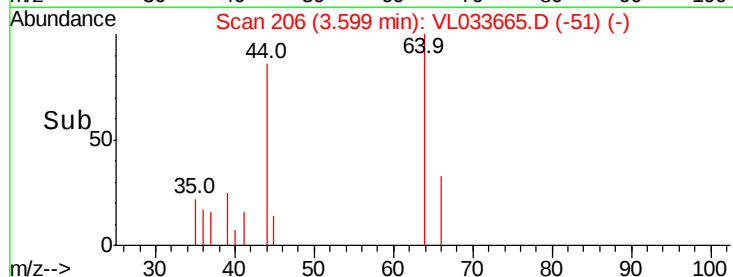
400

200

0

3.59 3.60 3.61 3.62

Time-->



#8

Dichlorotetrafluoroethane

Concen: 0.036 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033665.D

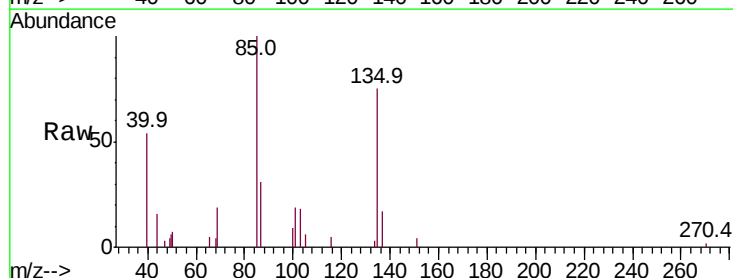
Acq: 6 May 2019 19:09

Tgt Ion: 85 Resp: 6711

Ion Ratio Lower Upper

85 100

135 86.7 54.3 81.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

8000

6000

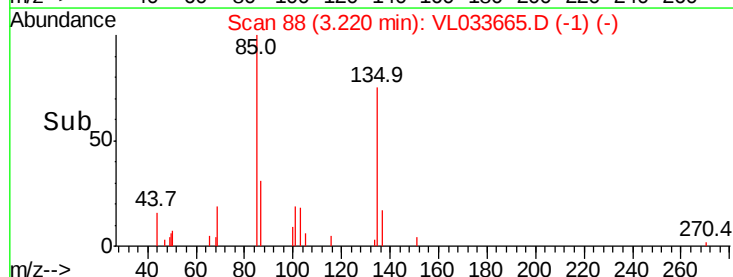
4000

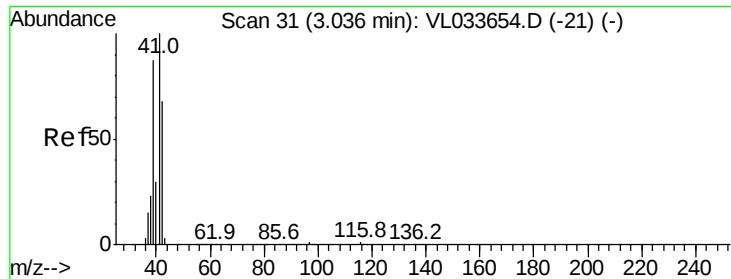
2000

0

3.18 3.20 3.22 3.24

Time-->





#9

Propene

Concen: 0.035 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

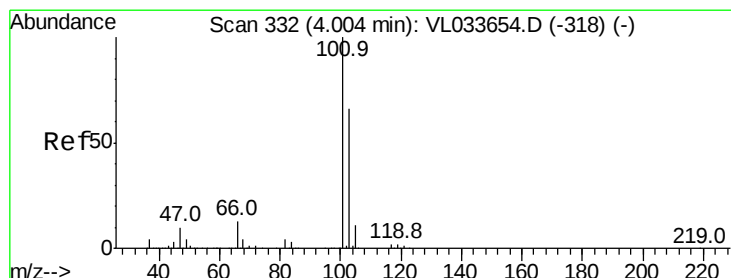
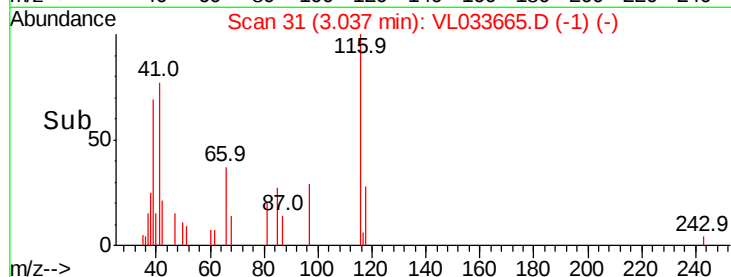
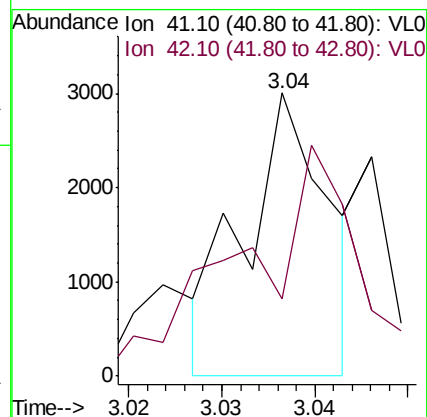
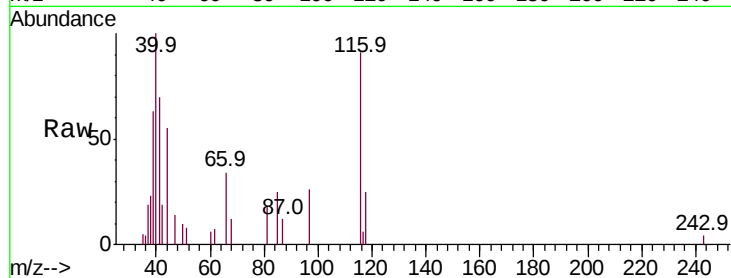
ClientSampleId :

Tot Ion: 41 Resp: 1862

Ion Ratio Lower Upper

41 100

42 126.4 55.6 83.4#



#11

Trichlorofluoromethane

Concen: 0.026 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033665.D

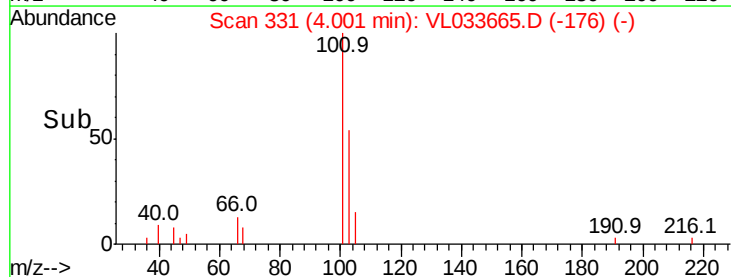
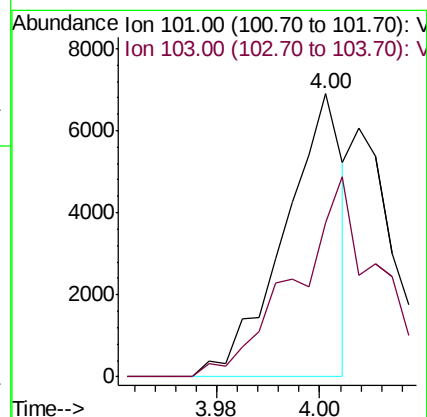
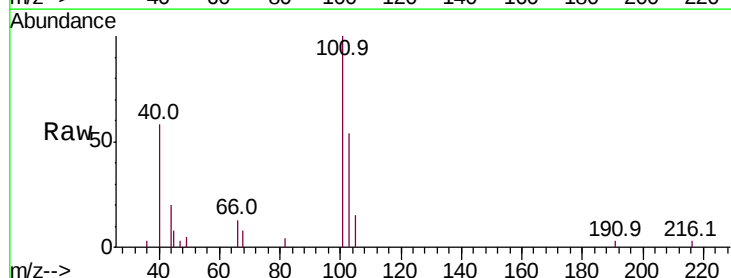
Acq: 6 May 2019 19:09

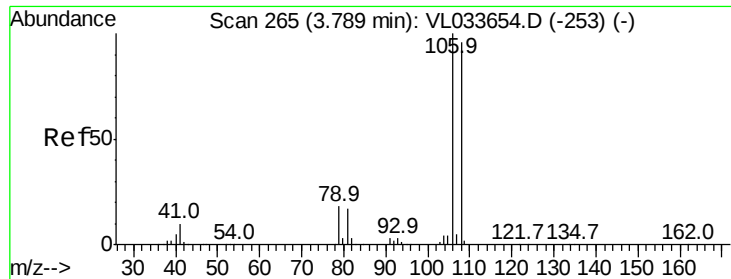
Tgt Ion: 101 Resp: 5457

Ion Ratio Lower Upper

101 100

103 54.5 52.7 79.1





#14

Bromoethene

Concen: 0.020 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :
MSVOA_L
ClientSampled :

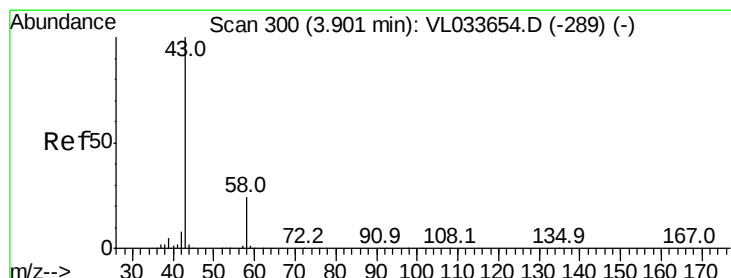
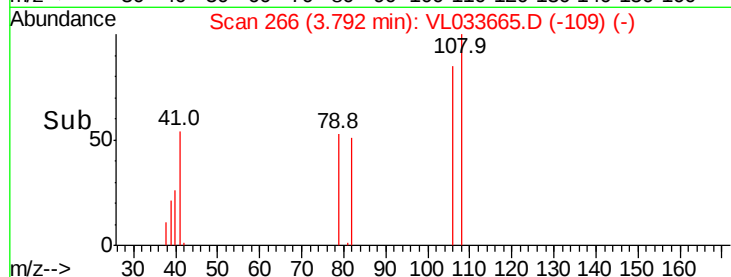
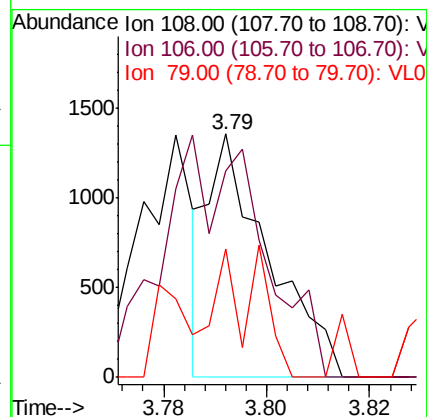
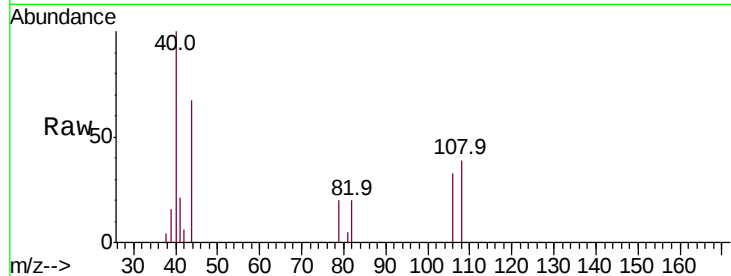
Tot Ion:108 Resp: 1105

Ion Ratio Lower Upper

108 100

106 0.0 85.7 128.5#

79 58.0 15.2 22.8#



#15

Acetone

Concen: 0.114 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.02 min

Lab File: VL033665.D

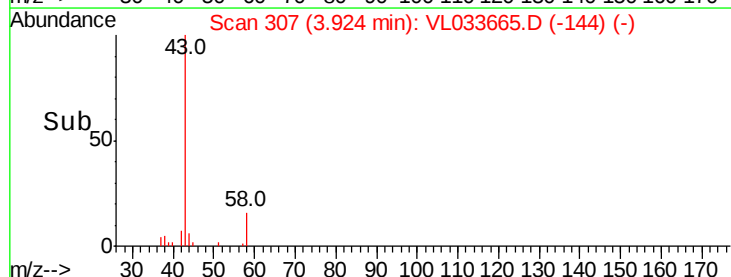
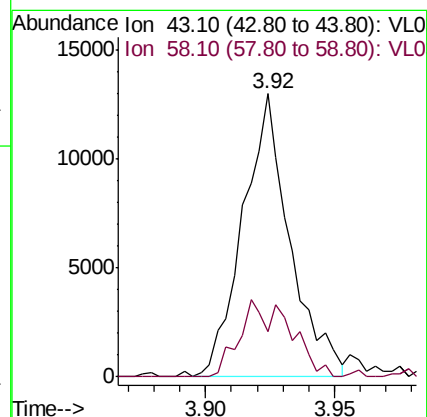
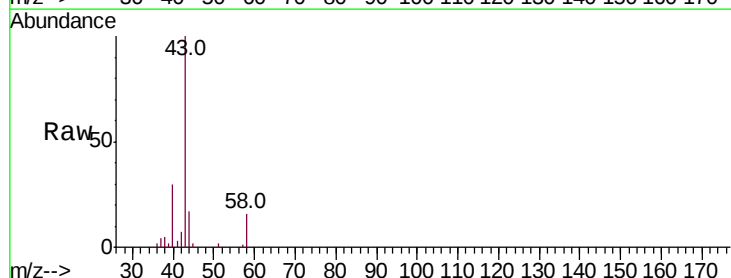
Acq: 6 May 2019 19:09

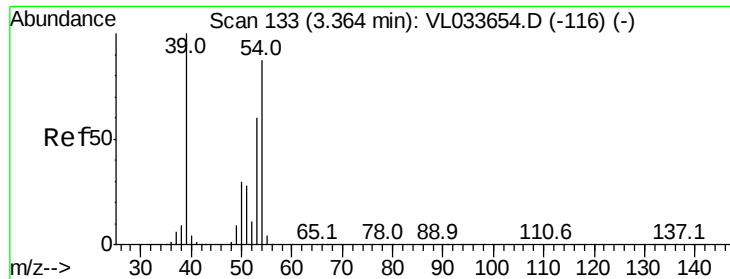
Tgt Ion: 43 Resp: 16489

Ion Ratio Lower Upper

43 100

58 30.7 20.9 31.3

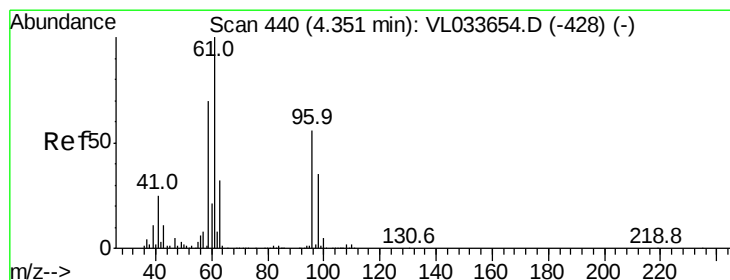
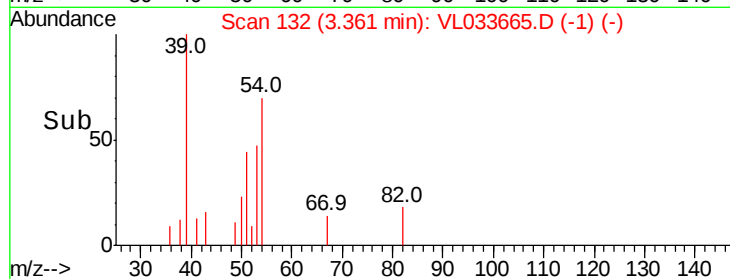
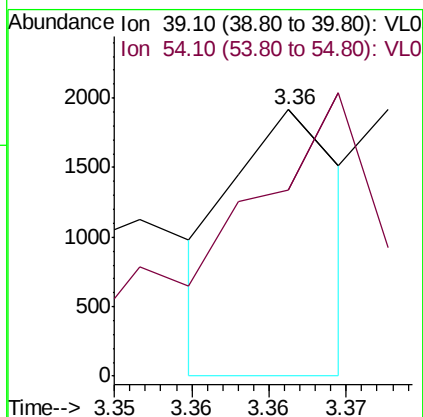
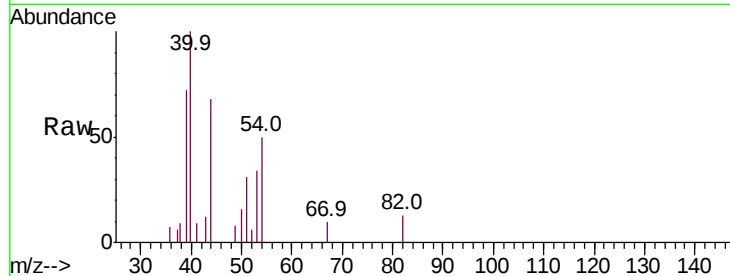




#16
 1,3-Butadiene
 Concen: 0.015 ppbv
 RT: 3.36 min Scan# 132
 Delta R.T. -0.00 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

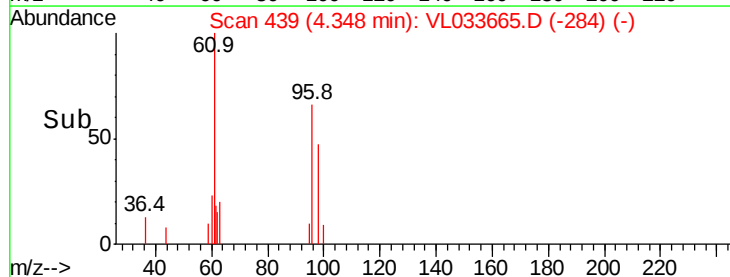
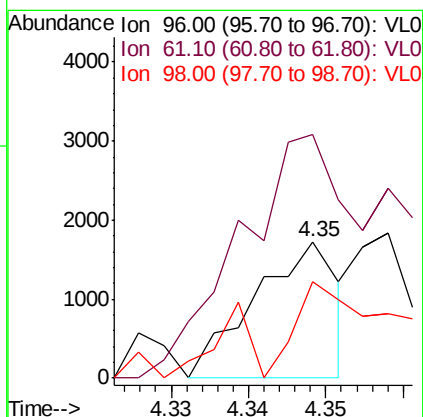
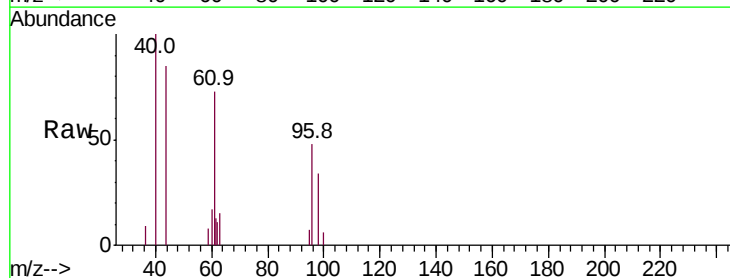
Instrument :
 MSVOA_L
 ClientSampleId :

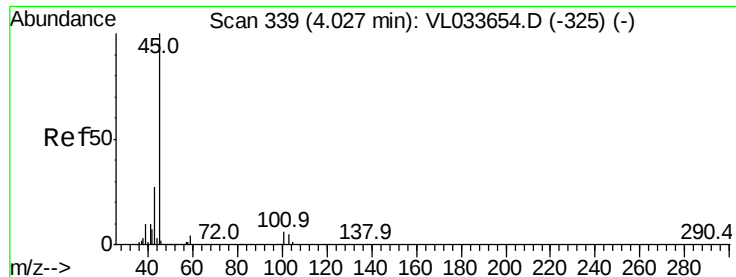
Tot Ion: 39 Resp: 941
 Ion Ratio Lower Upper
 39 100
 54 0.0 67.0 100.4#



#18
 1,1-Dichloroethene
 Concen: 0.021 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Tgt Ion: 96 Resp: 1298
 Ion Ratio Lower Upper
 96 100
 61 136.4 143.4 215.0#
 98 58.3 50.4 75.6





#19

Isopropyl Alcohol

Concen: 0.027 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

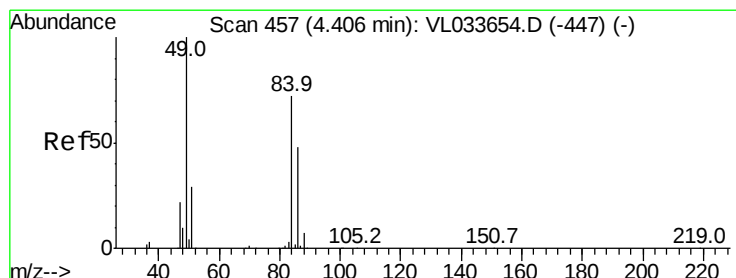
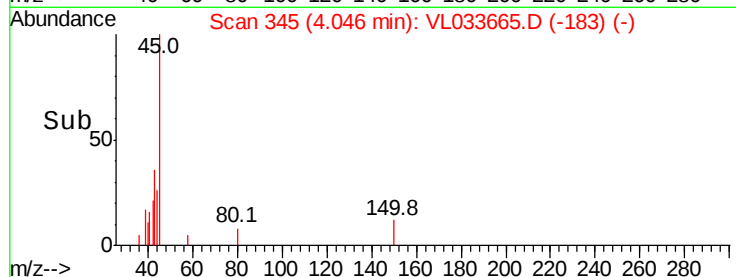
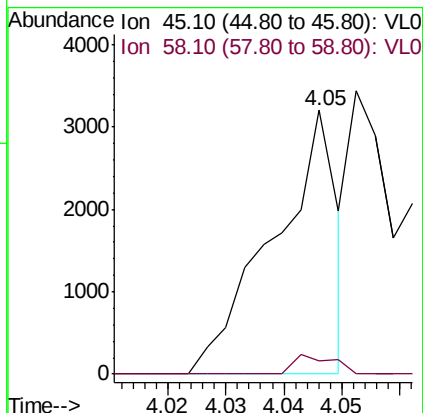
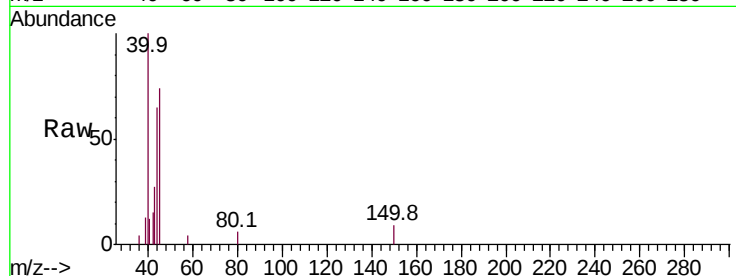
ClientSampleId :

Tot Ion: 45 Resp: 2444

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.041 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Tgt Ion: 84 Resp: 2240

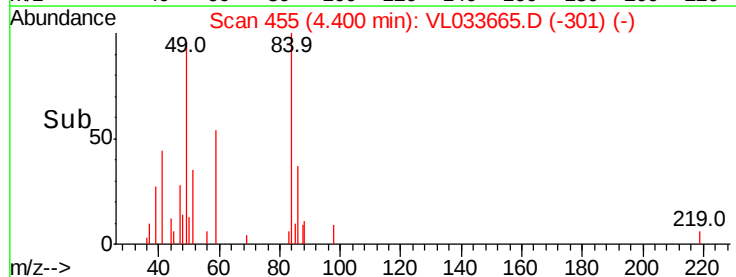
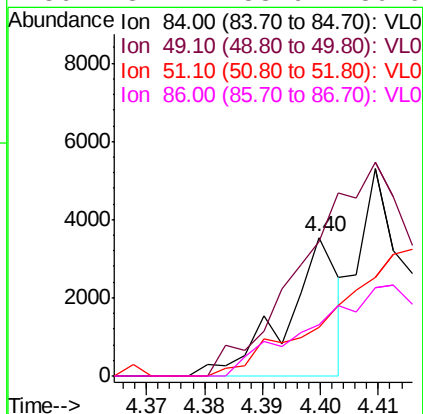
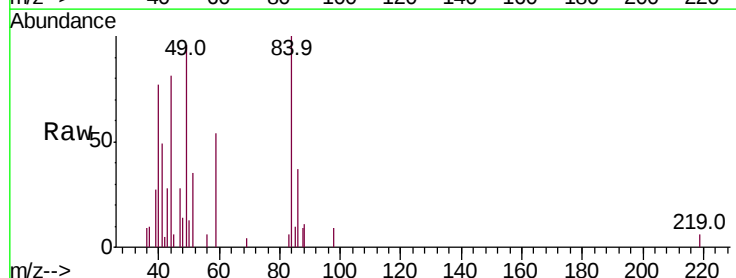
Ion Ratio Lower Upper

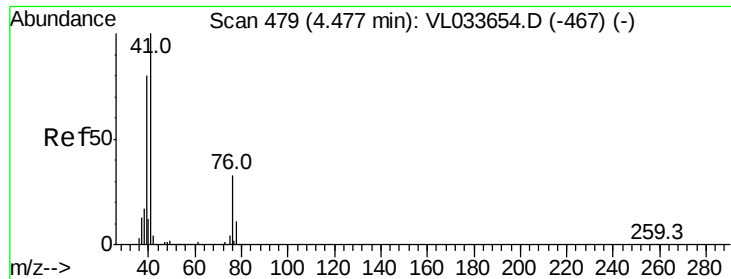
84 100

49 96.4 111.8 167.6#

51 35.1 32.3 48.5

86 37.2 53.9 80.9#

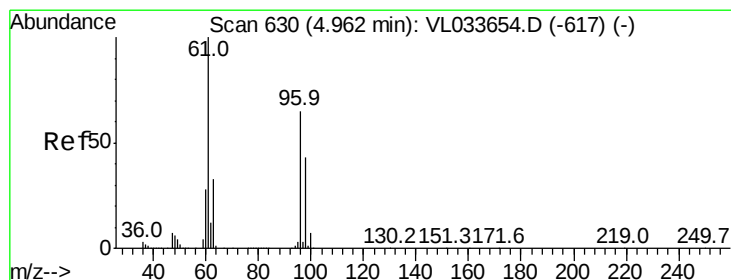
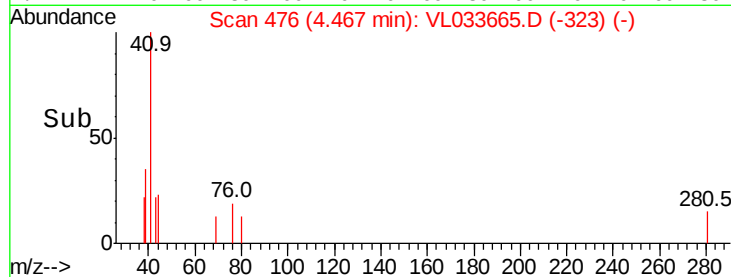
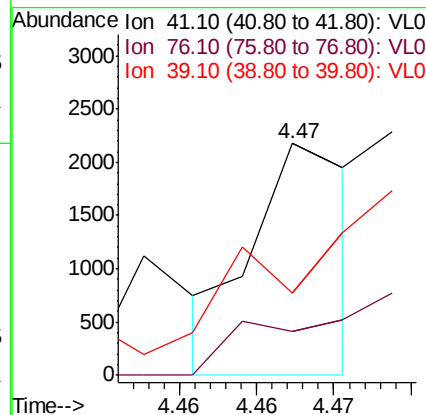
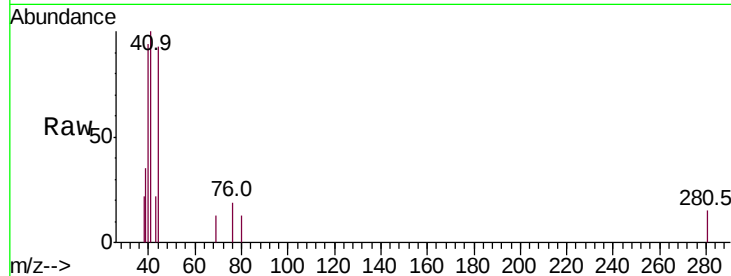




#21
Allvl Chloride
Concen: 0.011 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.01 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

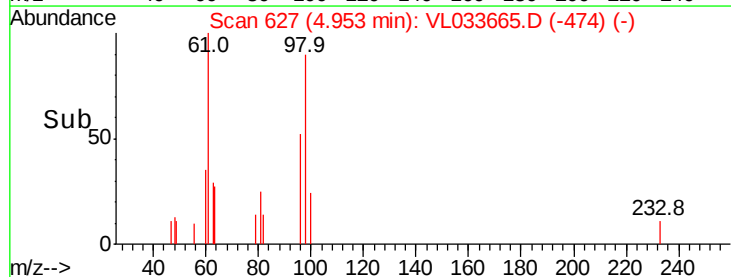
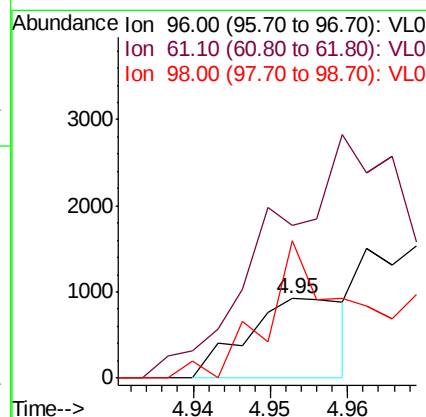
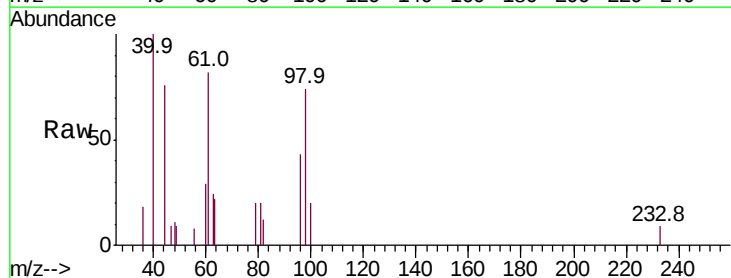
Instrument :
MSVOA_L
ClientSampled :

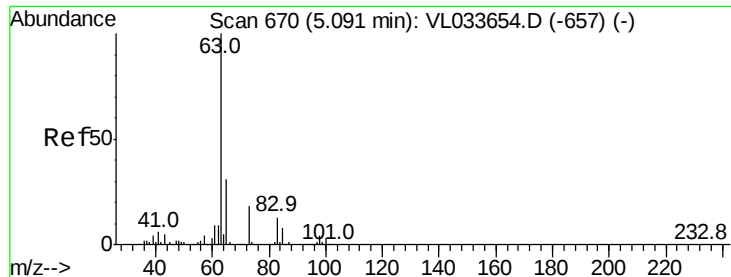
Tot Ion: 41 Resp: 977
Ion Ratio Lower Upper
41 100
76 0.0 26.0 39.0#
39 0.0 64.4 96.6#



#22
trans-1,2-Dichloroethene
Concen: 0.013 ppbv
RT: 4.95 min Scan# 627
Delta R.T. -0.01 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

Tgt Ion: 96 Resp: 823
Ion Ratio Lower Upper
96 100
61 156.0 123.1 184.7
98 151.1 52.6 79.0#





#24

1,1-Dichloroethane

Concen: 0.027 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

ClientSampleId :

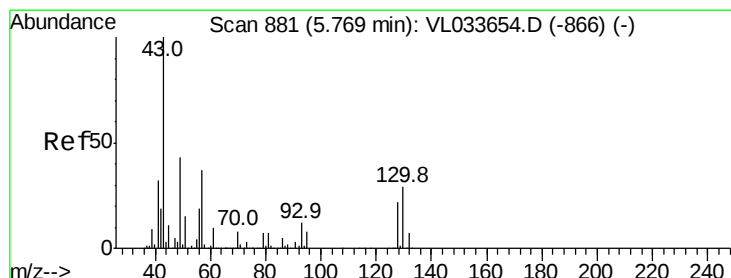
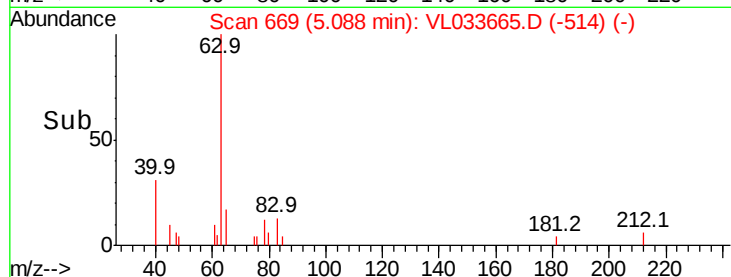
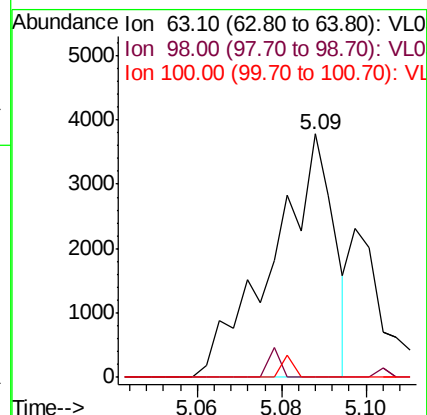
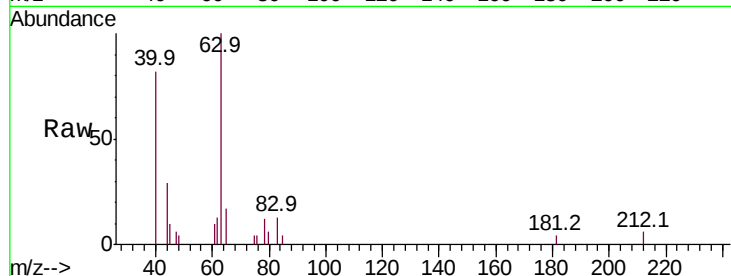
Tot Ion: 63 Resp: 3785

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

100 0.0 1.5 4.4#



#25

Ethyl Acetate

Concen: 0.038 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Tgt Ion: 43 Resp: 8844

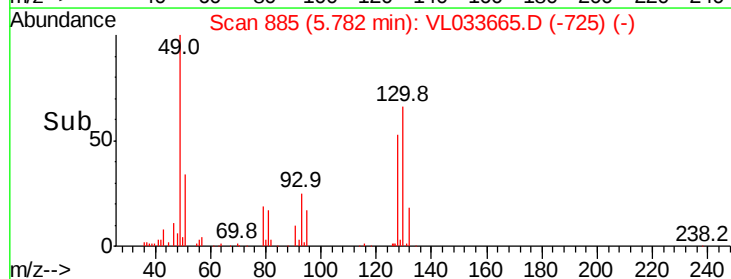
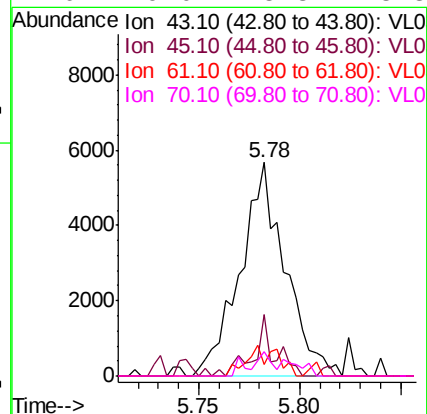
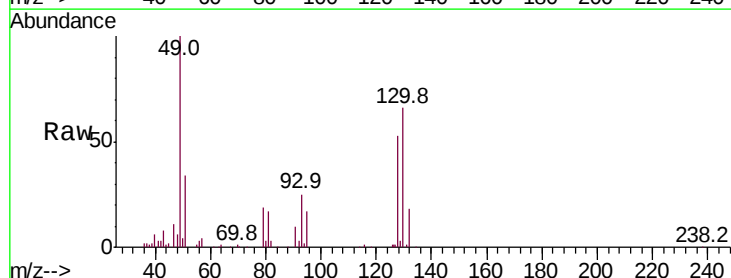
Ion Ratio Lower Upper

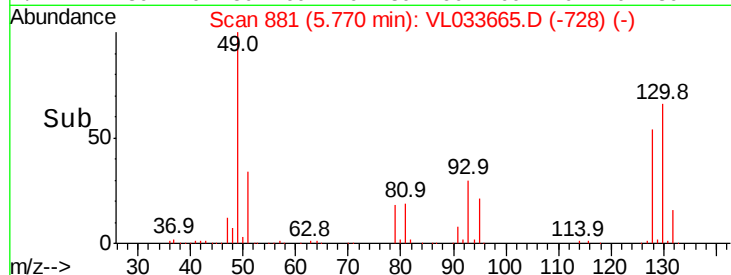
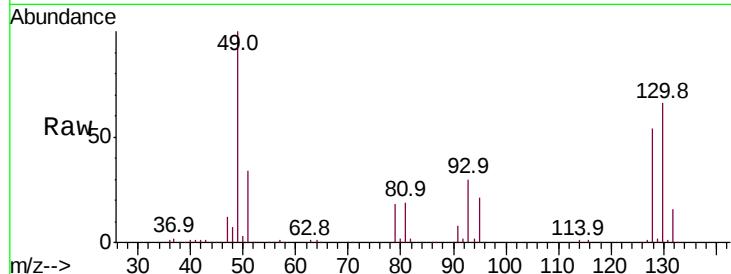
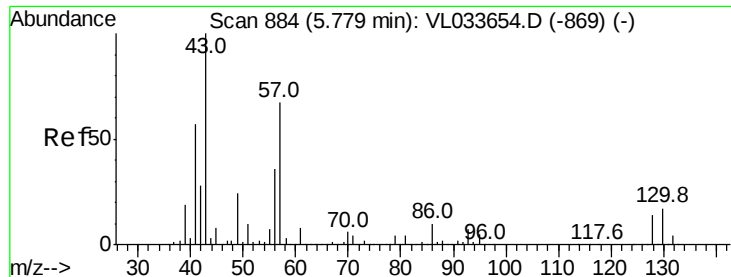
43 100

45 16.7 8.0 12.0#

61 10.9 7.5 11.3

70 9.0 5.8 8.8#

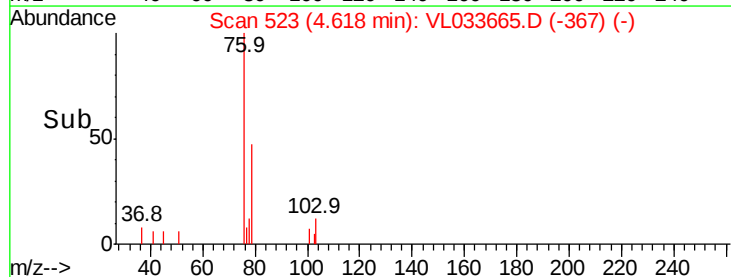
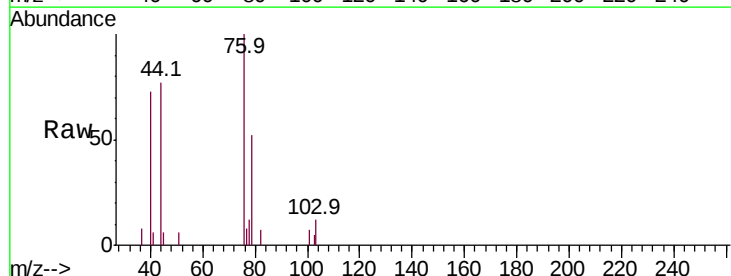
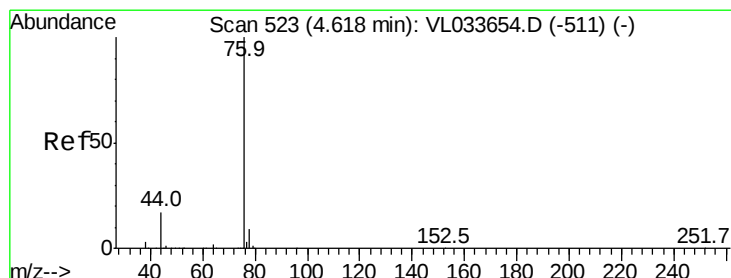
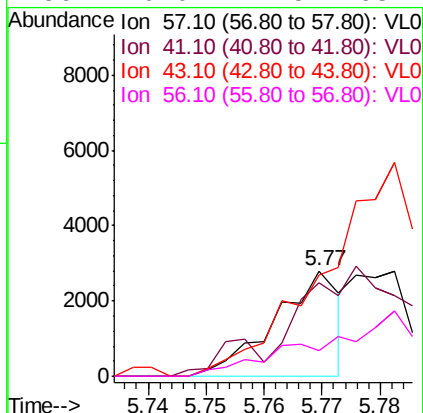




#26
Hexane
Concen: 0.022 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

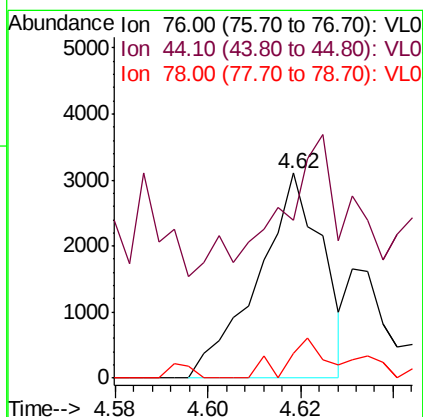
Instrument :
MSVOA_L
ClientSampled :

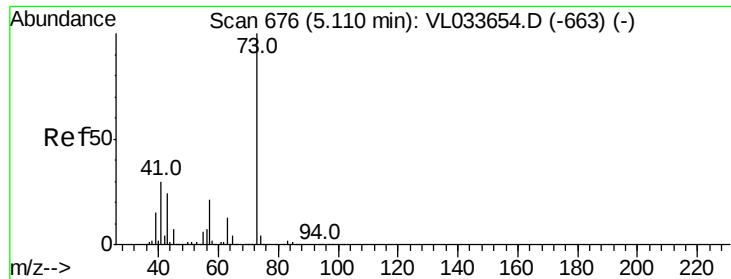
Tot Ion: 57 Resp: 2181
Ion Ratio Lower Upper
57 100
41 0.0 69.7 104.5#
43 0.0 181.9 272.9#
56 0.0 42.5 63.7#



#27
Carbon Disulfide
Concen: 0.022 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

Tgt Ion: 76 Resp: 2992
Ion Ratio Lower Upper
76 100
44 126.3 14.4 21.6#
78 17.0 7.4 11.2#



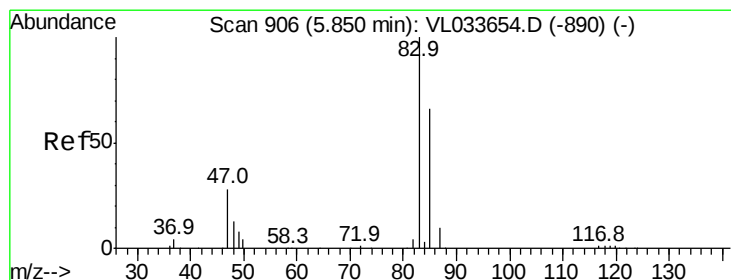
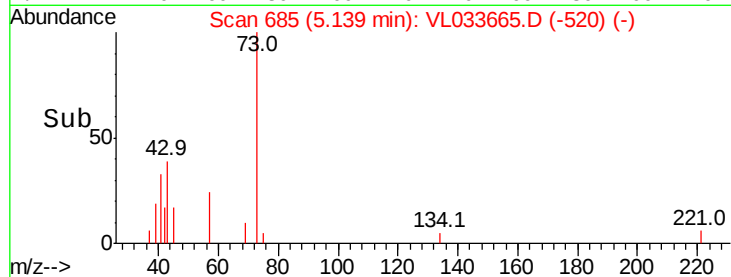
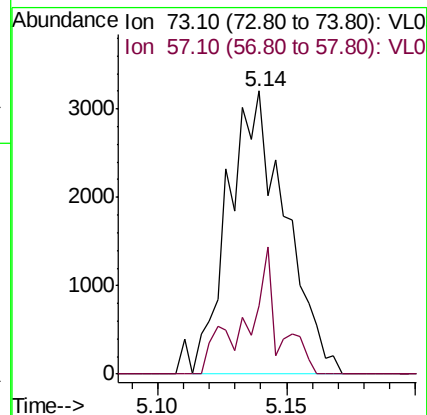
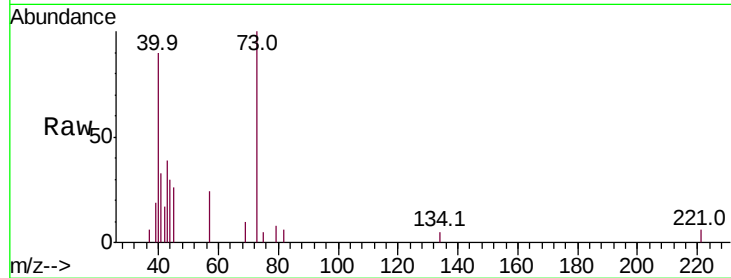


#28

Methvl tert-Butvl Ether
 Concen: 0.029 ppbv
 RT: 5.14 min Scan# 685
 Delta R.T. 0.03 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Instrument :
 MSVOA_L
 ClientSampleId :

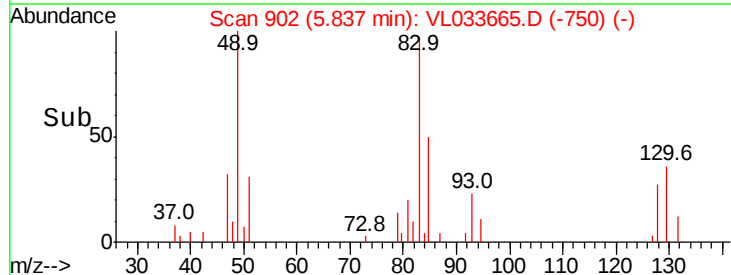
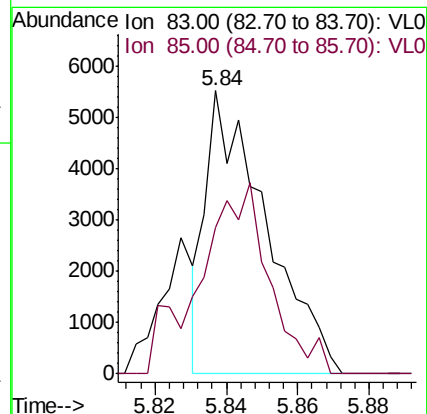
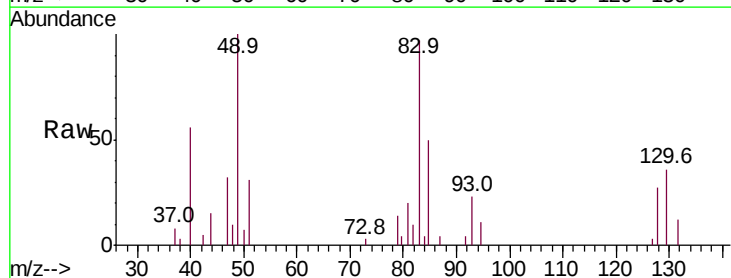
Tot Ion: 73 Resp: 4952
 Ion Ratio Lower Upper
 73 100
 57 25.7 17.4 26.0

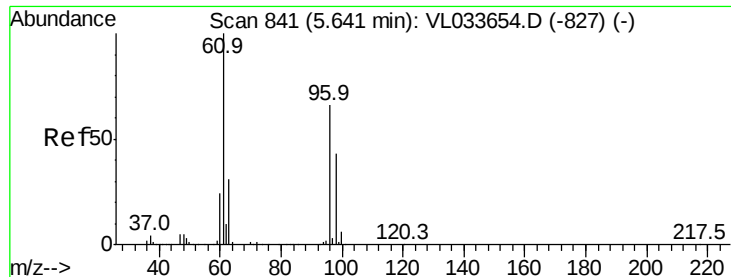


#29

Chloroform
 Concen: 0.035 ppbv
 RT: 5.84 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Tgt Ion: 83 Resp: 6411
 Ion Ratio Lower Upper
 83 100
 85 51.9 52.6 78.8#

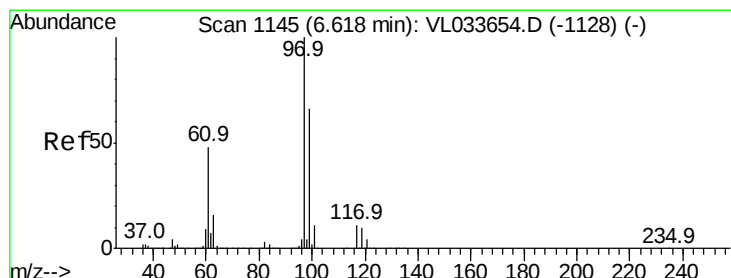
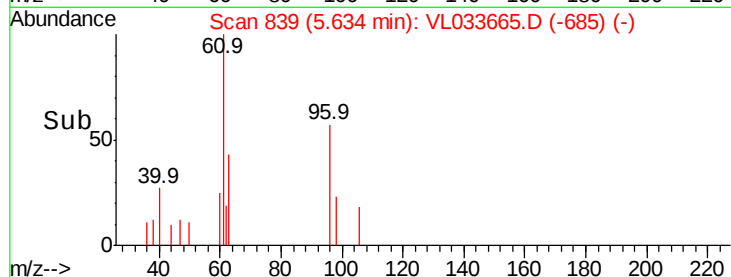
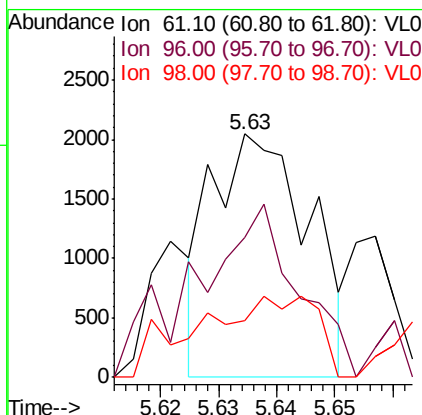
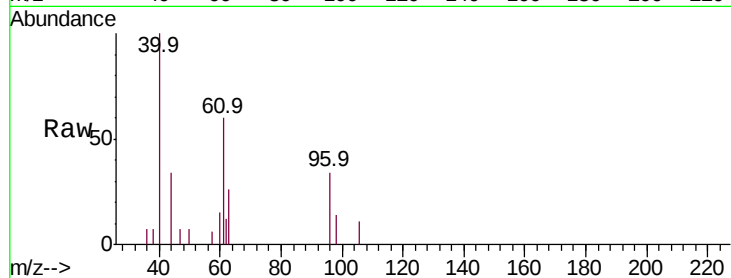




#31
 cis-1,2-Dichloroethene
 Concen: 0.024 ppbv
 RT: 5.63 min Scan# 839
 Delta R.T. -0.01 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

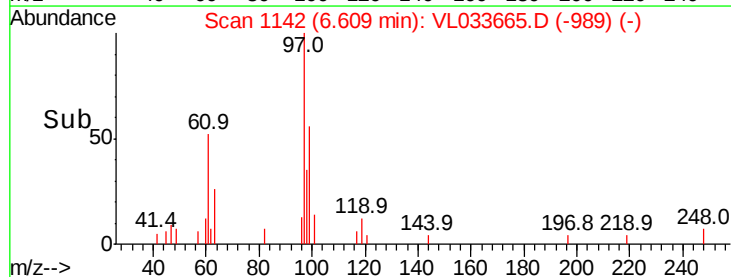
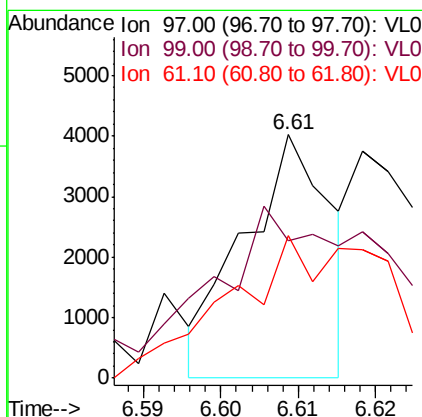
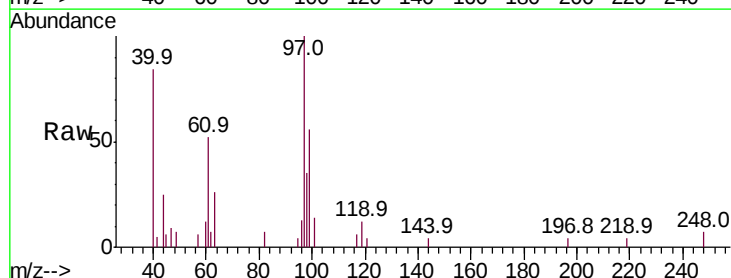
Instrument :
 MSVOA_L
 ClientSampleId :

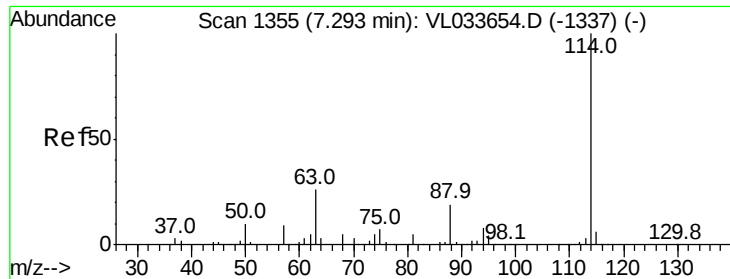
Tot Ion: 61 Resp: 2384
 Ion Ratio Lower Upper
 61 100
 96 47.3 53.2 79.8#
 98 30.6 34.2 51.4#



#32
 1,1,1-Trichloroethane
 Concen: 0.017 ppbv
 RT: 6.61 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Tgt Ion: 97 Resp: 3149
 Ion Ratio Lower Upper
 97 100
 99 164.5 51.4 77.2#
 61 125.4 38.5 57.7#

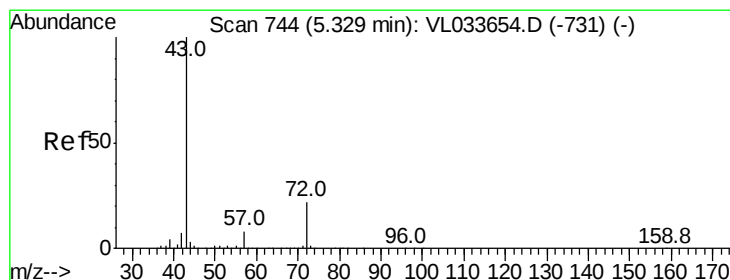
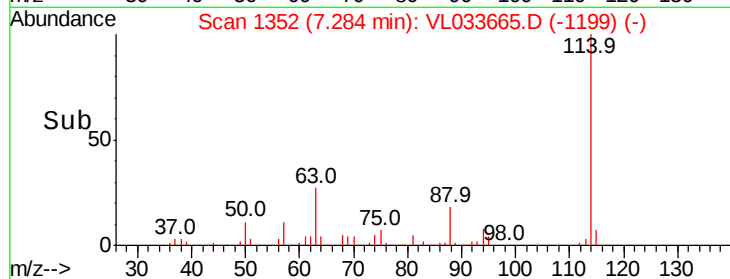
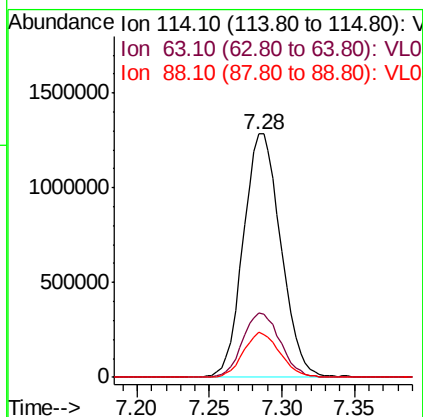
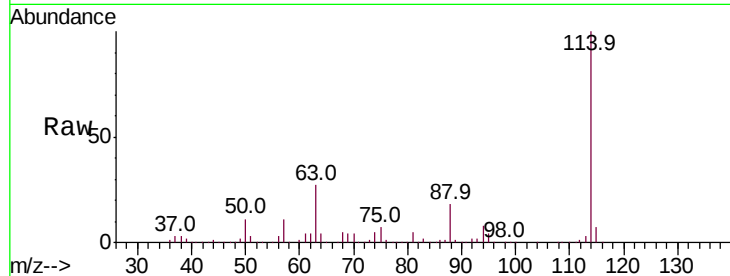




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

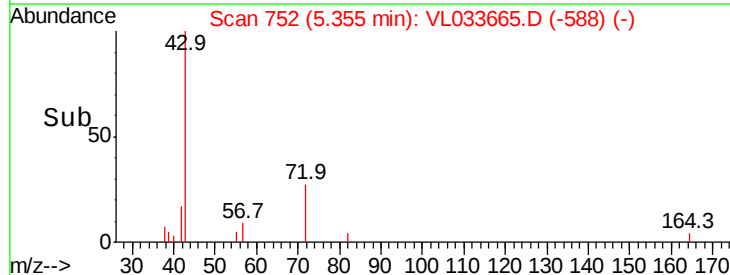
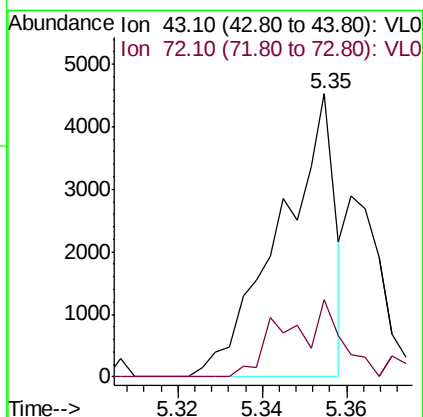
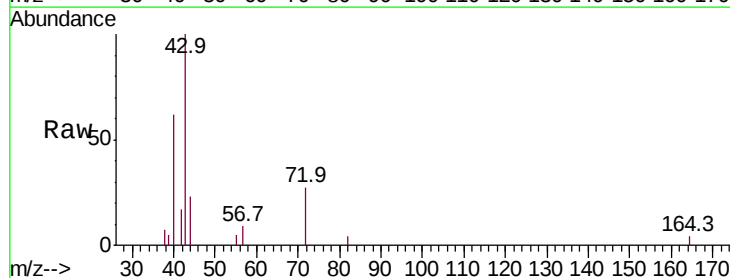
Instrument :
 MSVOA_L
 ClientSampleId :

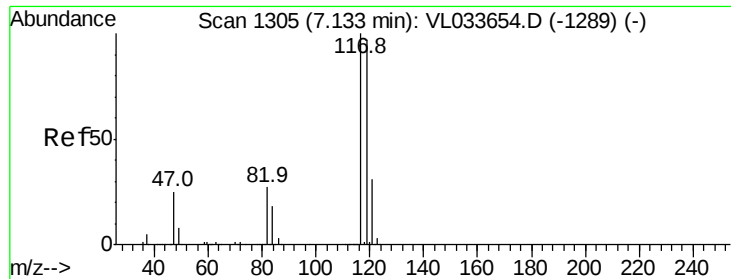
Tot Ion:114 Resp: 2317073
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.3 31.9
 88 18.0 14.4 21.6



#34
 2-Butanone
 Concen: 0.028 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. 0.03 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Tgt Ion: 43 Resp: 4094
 Ion Ratio Lower Upper
 43 100
 72 30.0 17.5 26.3#





#35

Carbon Tetrachloride

Concen: 0.022 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

ClientSampleId :

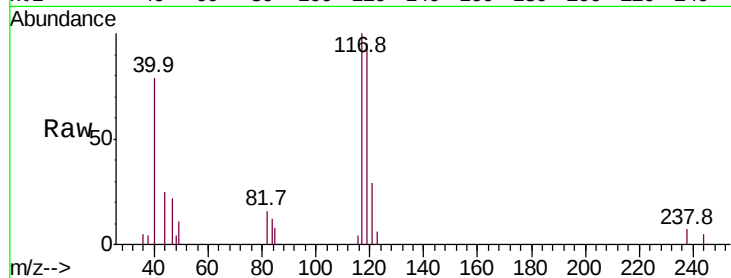
Tot Ion:117 Resp: 4166

Ion Ratio Lower Upper

117 100

119 94.6 77.9 116.9

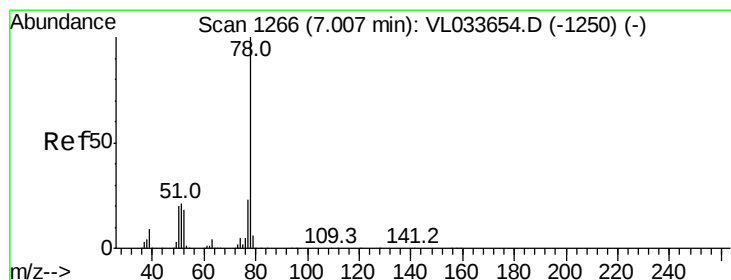
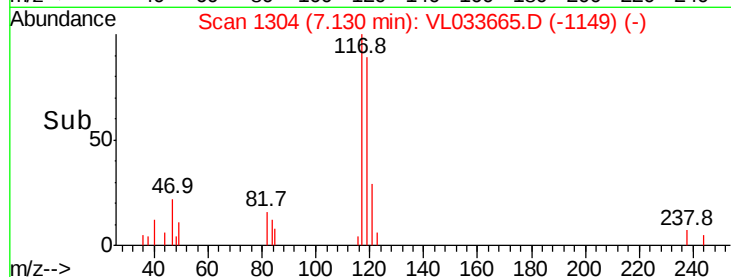
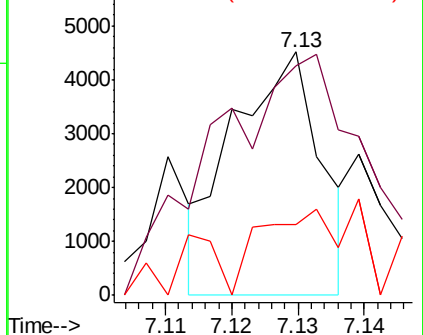
121 15.7 25.0 37.6#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.023 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

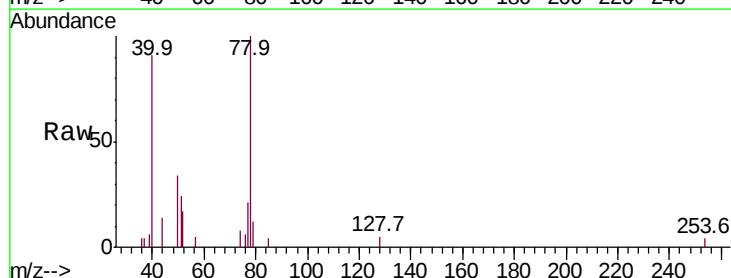
Tgt Ion: 78 Resp: 4706

Ion Ratio Lower Upper

78 100

77 20.9 18.2 27.2

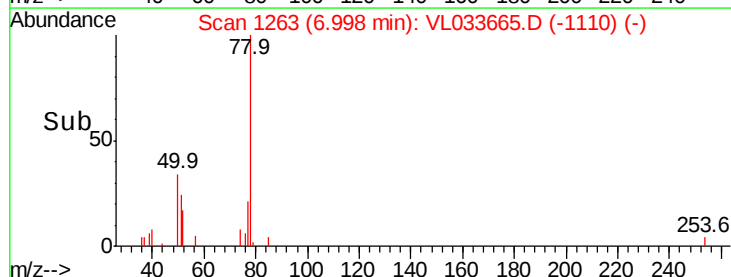
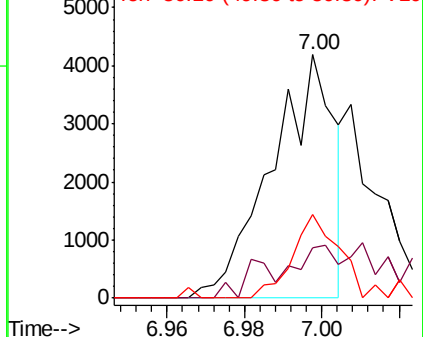
50 29.8 15.8 23.6#

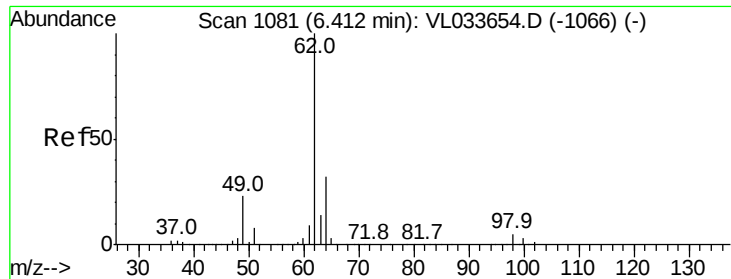


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

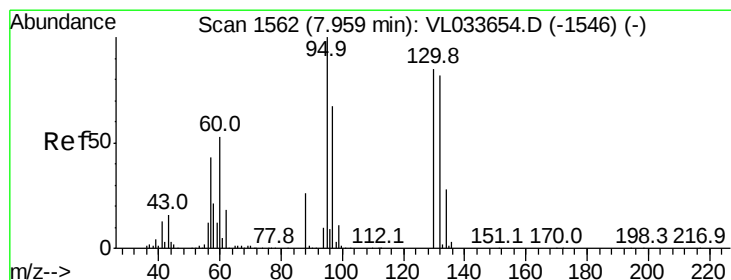
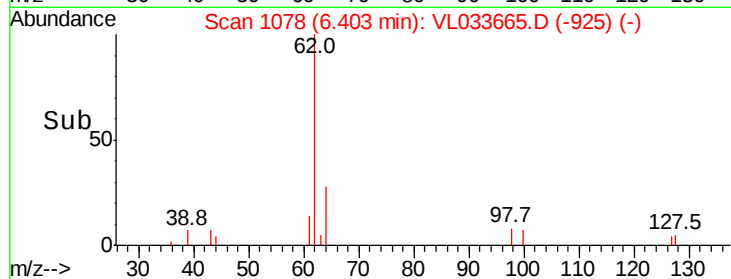
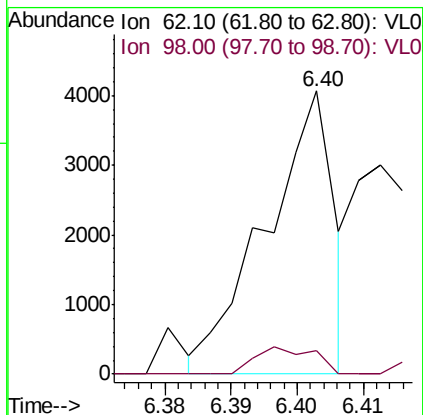
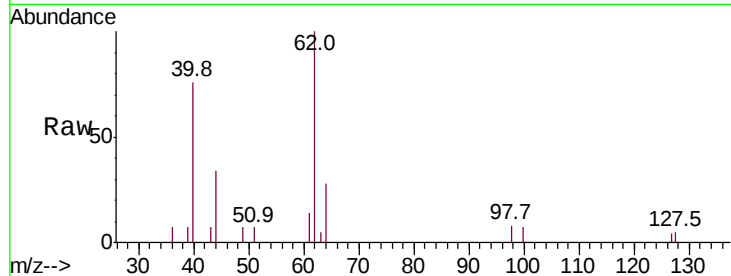




#37
 1,2-Dichloroethane
 Concen: 0.020 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.01 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

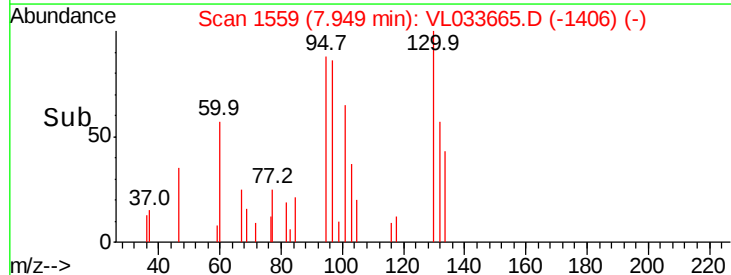
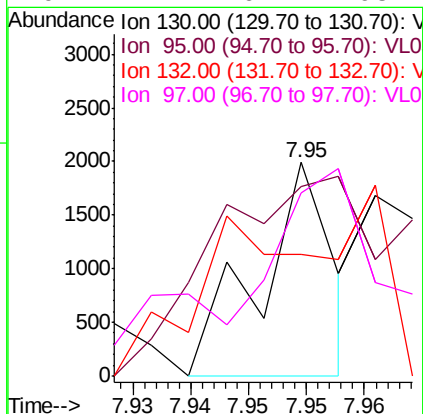
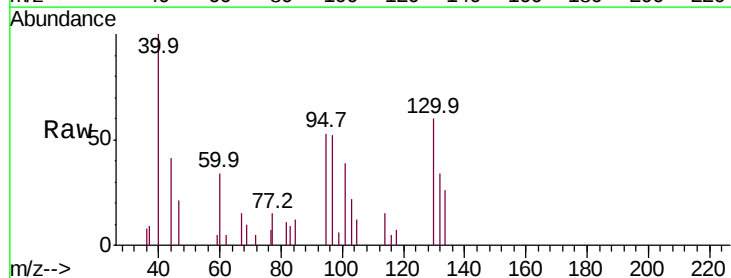
Instrument :
 MSVOA_L
 ClientSampleId :

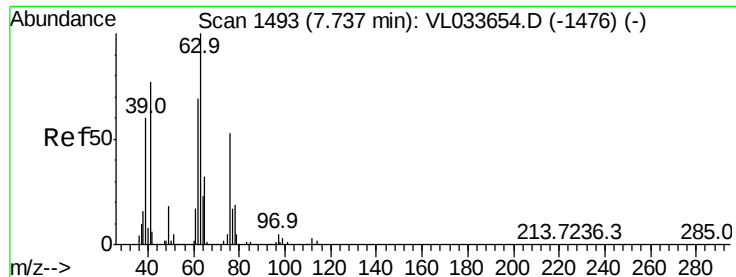
Tot Ion: 62 Resp: 2904
 Ion Ratio Lower Upper
 62 100
 98 10.7 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.012 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Tgt Ion:130 Resp: 878
 Ion Ratio Lower Upper
 130 100
 95 44.8 93.4 140.0#
 132 36.7 76.2 114.4#
 97 47.2 62.2 93.4#





#39

1,2-Dichloropropane

Concen: 7.939 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.45 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

ClientSampleId :

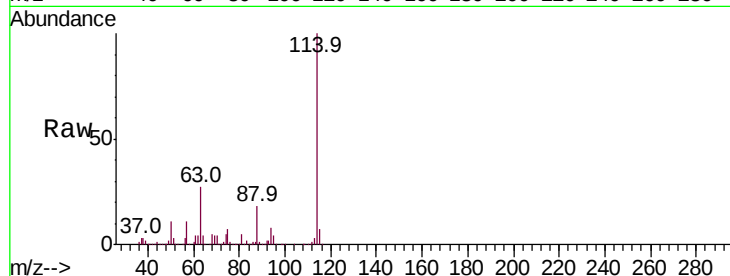
Tot Ion: 63 Resp: 614782

Ion Ratio Lower Upper

63 100

41 0.2 61.6 92.4#

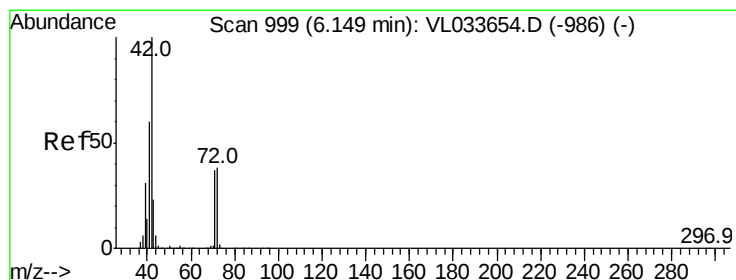
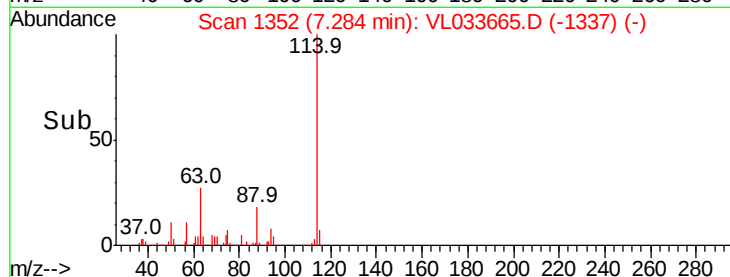
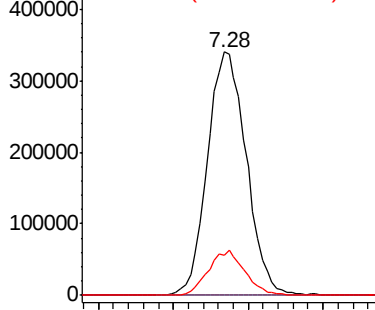
62 16.6 55.0 82.6#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.010 ppbv

RT: 6.17 min Scan# 1007

Delta R.T. 0.03 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

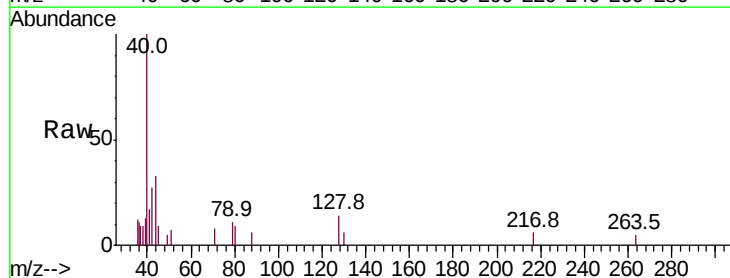
Tgt Ion: 42 Resp: 768

Ion Ratio Lower Upper

42 100

72 0.0 31.6 47.4#

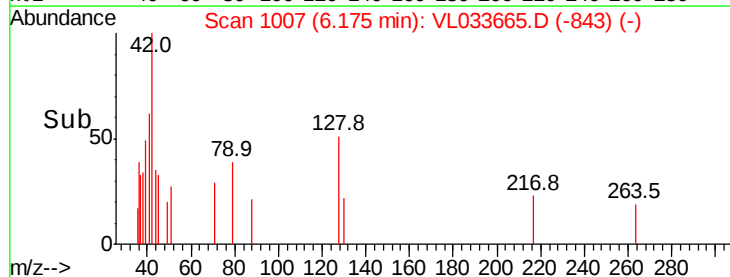
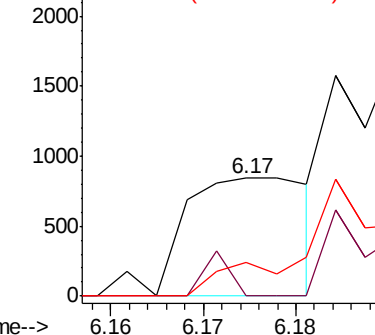
71 0.0 30.6 46.0#

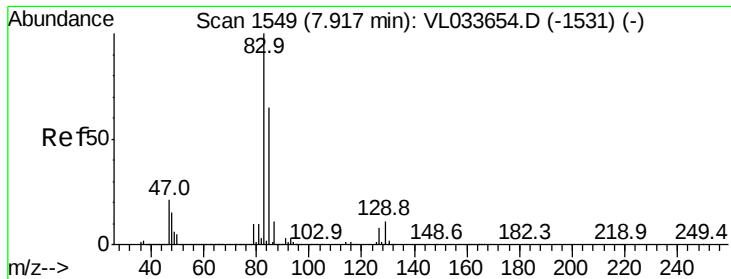


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.039 ppbv

RT: 7.91 min Scan# 1546

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :
MSVOA_L
ClientSampleId :

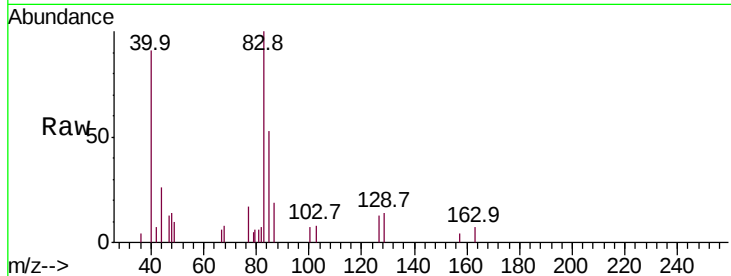
Tot Ion: 83 Resp: 7265

Ion Ratio Lower Upper

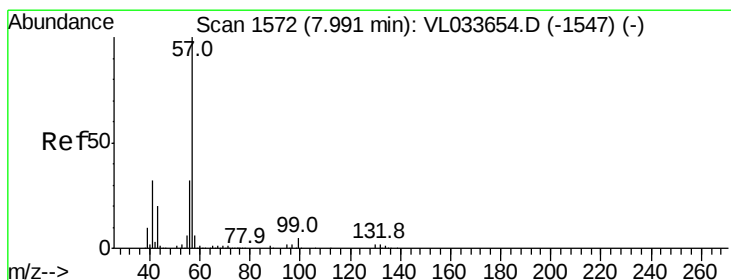
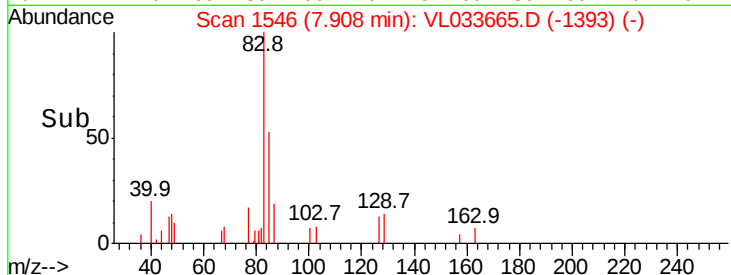
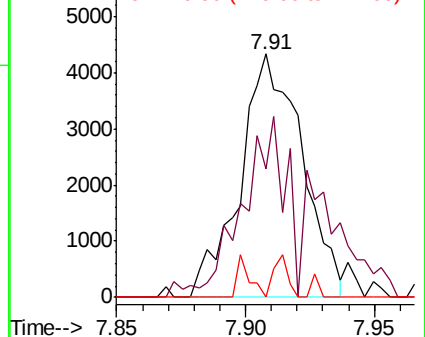
83 100

85 48.0 52.4 78.6#

127 0.0 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.016 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

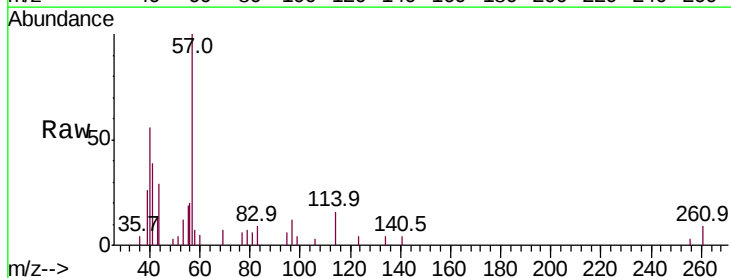
Tgt Ion: 57 Resp: 5568

Ion Ratio Lower Upper

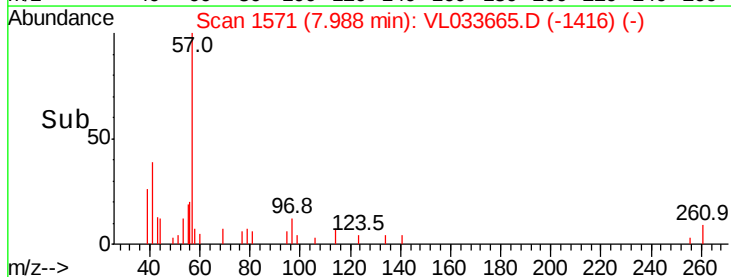
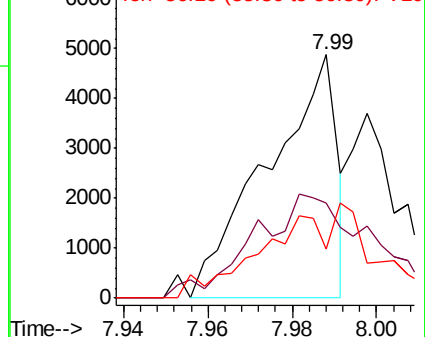
57 100

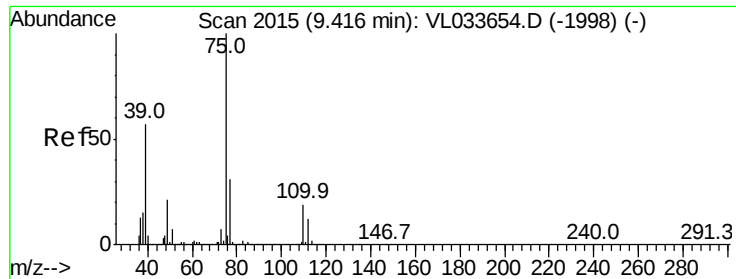
41 75.2 25.7 38.5#

56 60.3 25.0 37.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 0.011 ppbv

RT: 9.40 min Scan# 2011

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

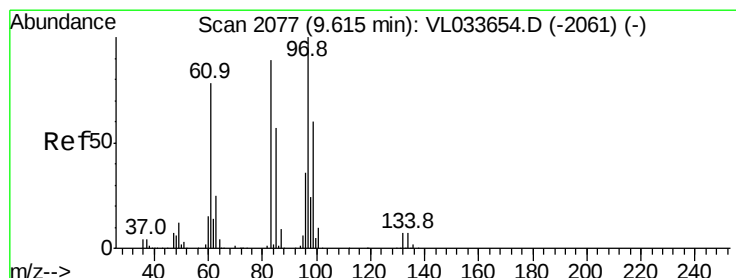
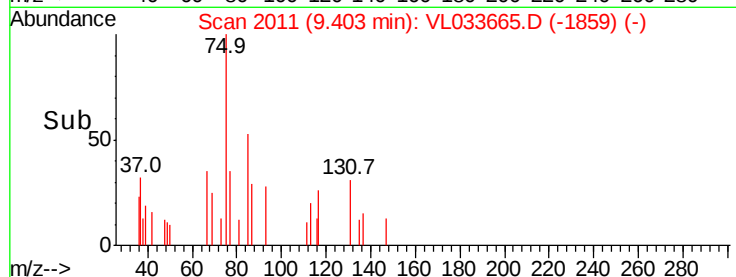
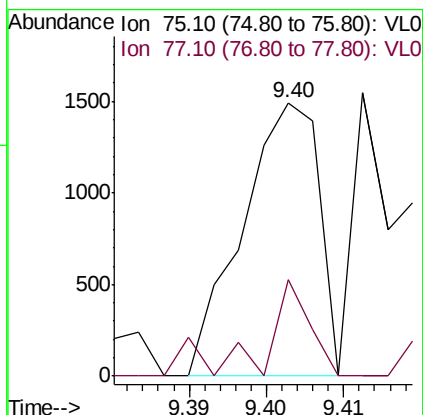
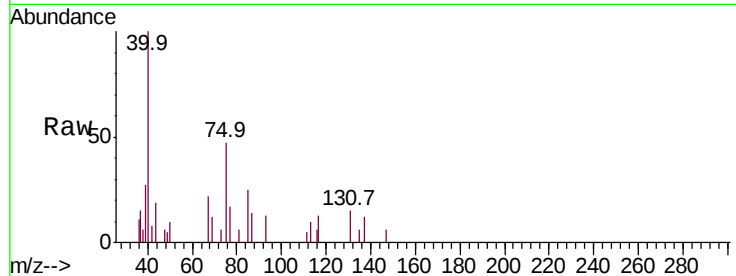
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 75 Resp: 1029

Ion Ratio Lower Upper

75 100

77 35.5 24.7 37.1



#47

1,1,2-Trichloroethane

Concen: 0.010 ppbv

RT: 9.61 min Scan# 2074

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Tgt Ion: 97 Resp: 917

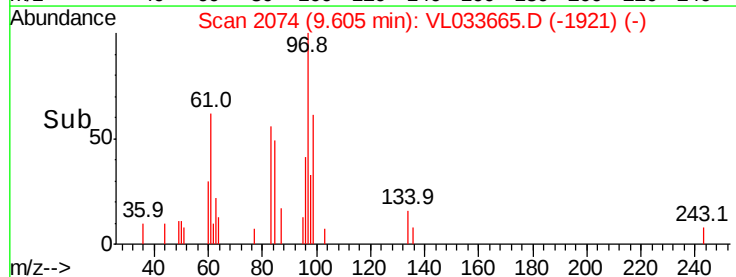
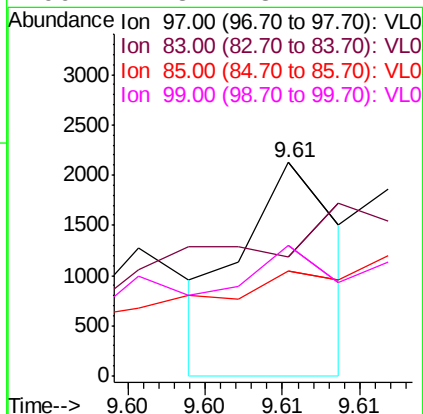
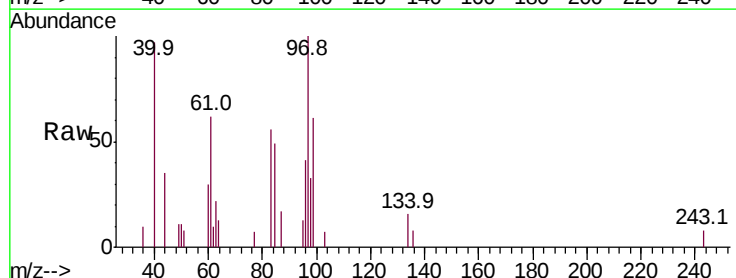
Ion Ratio Lower Upper

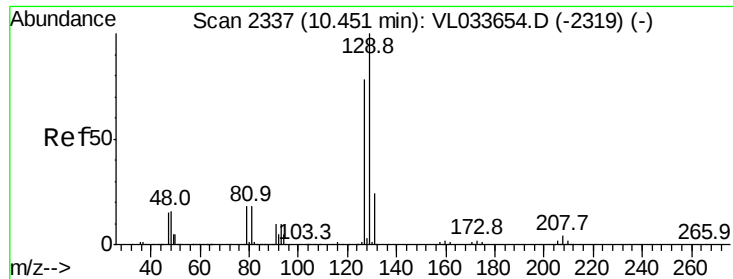
97 100

83 0.0 70.9 106.3#

85 20.2 45.8 68.6#

99 42.3 48.2 72.4#





#48

Dibromochloromethane

Concen: 0.013 ppbv

RT: 10.44 min Scan# 2334

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

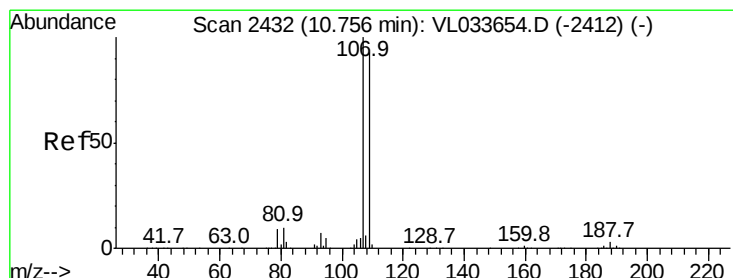
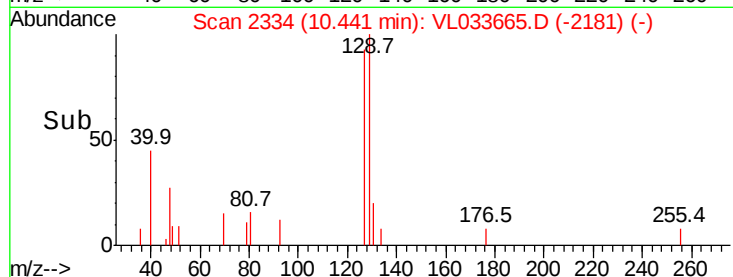
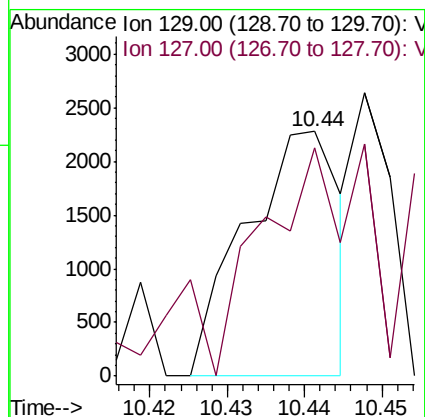
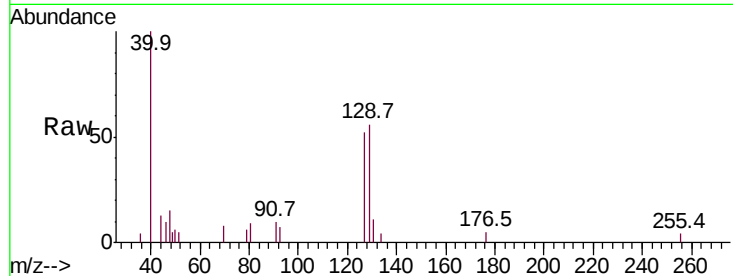
ClientSampleId :

Tot Ion:129 Resp: 1934

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



#54

1,2-Dibromoethane

Concen: 0.012 ppbv

RT: 10.74 min Scan# 2428

Delta R.T. -0.01 min

Lab File: VL033665.D

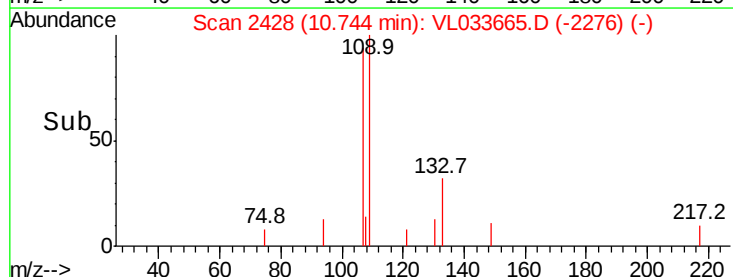
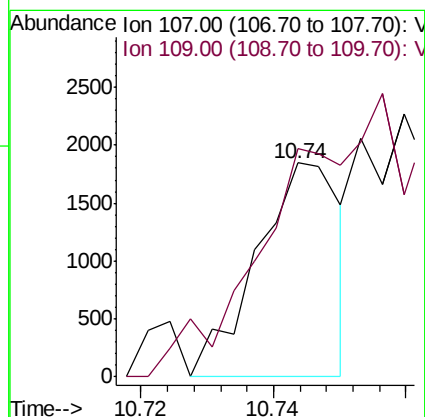
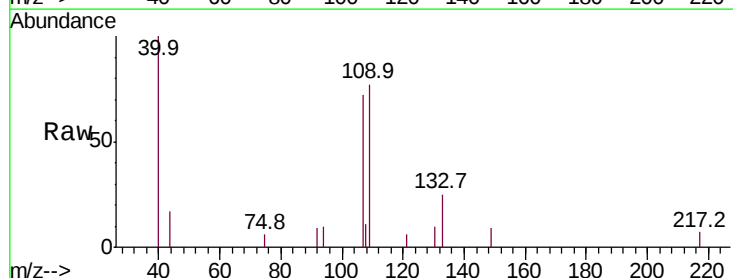
Acq: 6 May 2019 19:09

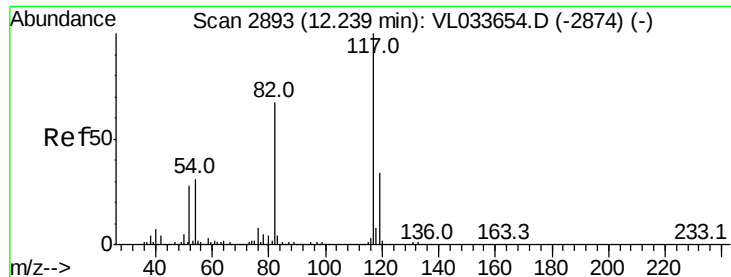
Tgt Ion:107 Resp: 1613

Ion Ratio Lower Upper

107 100

109 69.4 74.6 111.8#

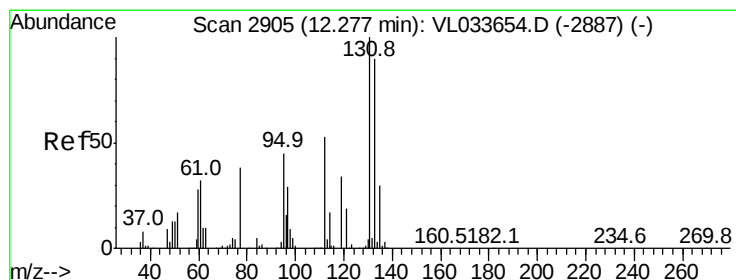
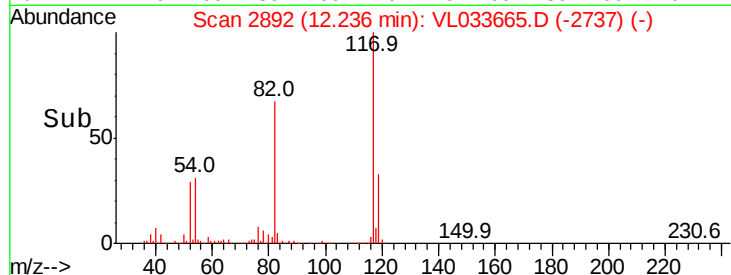
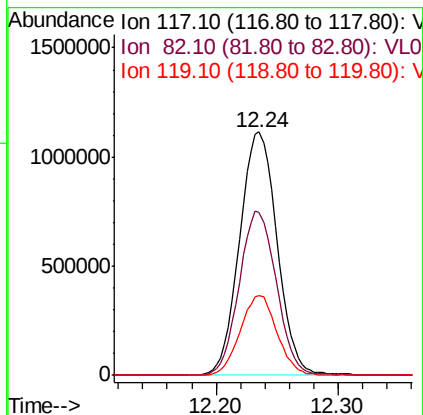
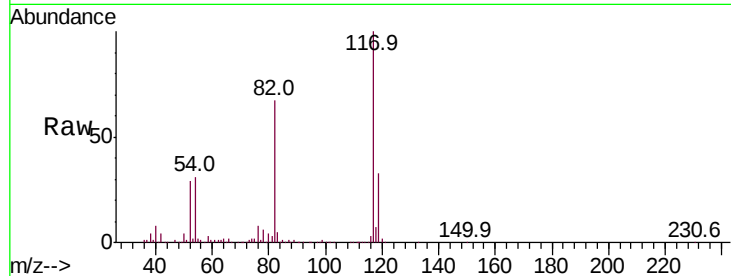




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

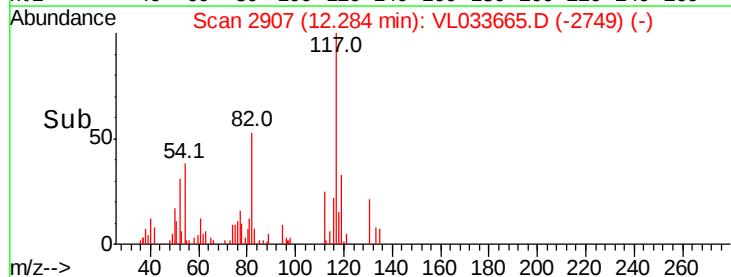
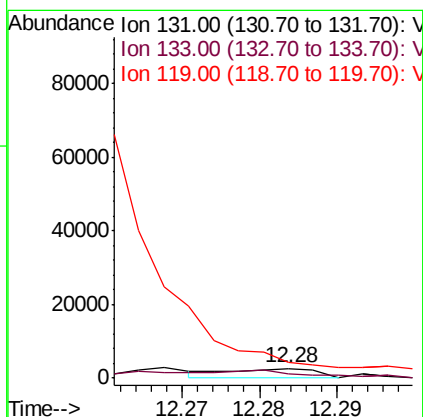
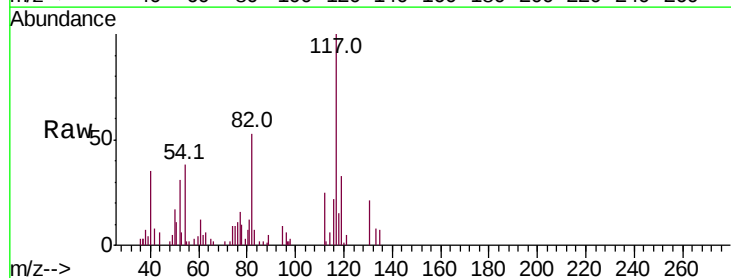
Instrument :
MSVOA_L
ClientSampled :

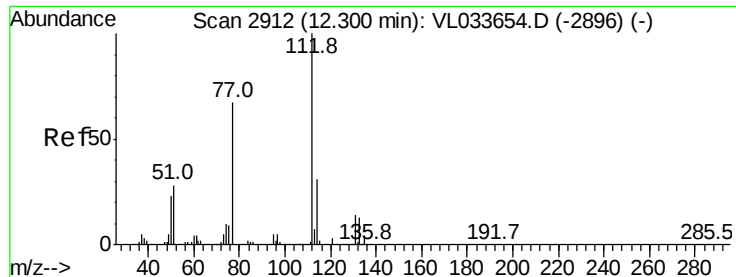
Tot Ion:117 Resp: 2366073
Ion Ratio Lower Upper
117 100
82 67.1 49.7 74.5
119 32.3 24.8 37.2



#56
1,1,1,2-Tetrachloroethane
Concen: 0.016 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.01 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

Tgt Ion:131 Resp: 1796
Ion Ratio Lower Upper
131 100
133 201.1 76.0 114.0#
119 0.0 45.4 68.2#

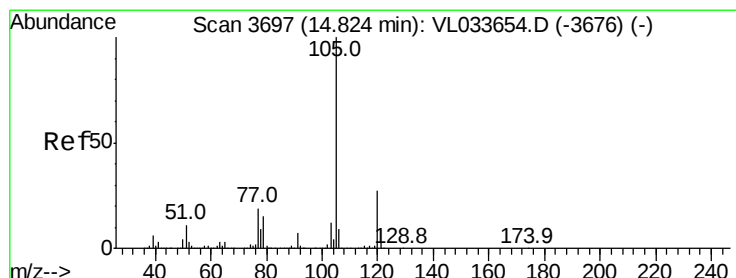
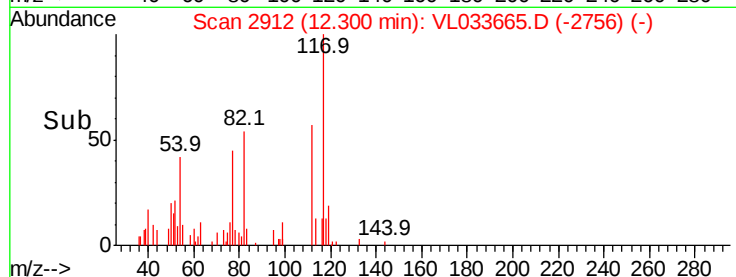
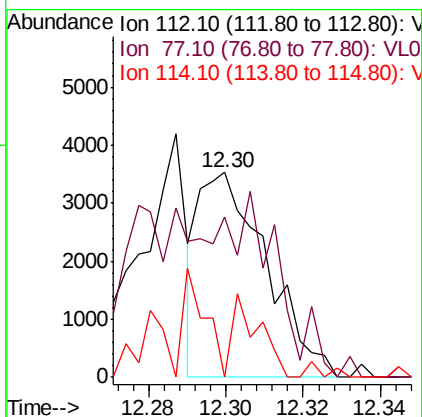
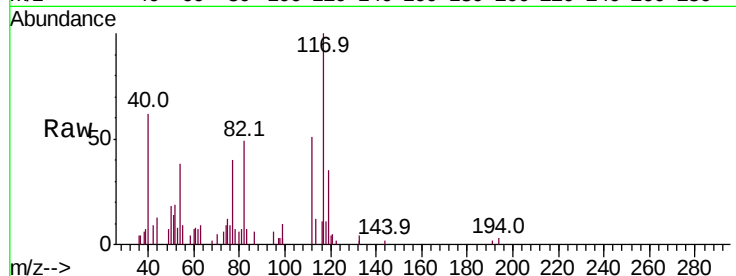




#57
Chlorobenzene
Concen: 0.022 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

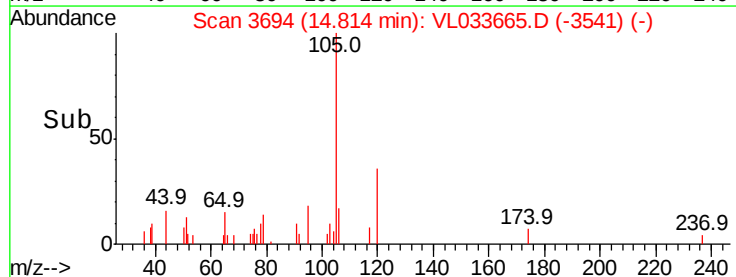
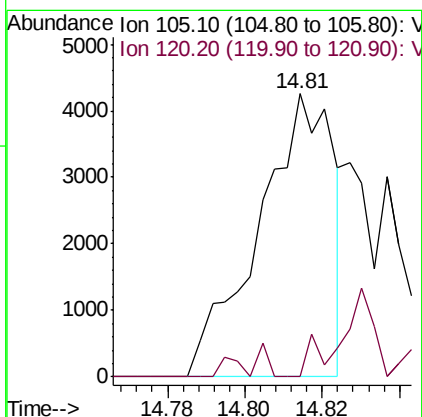
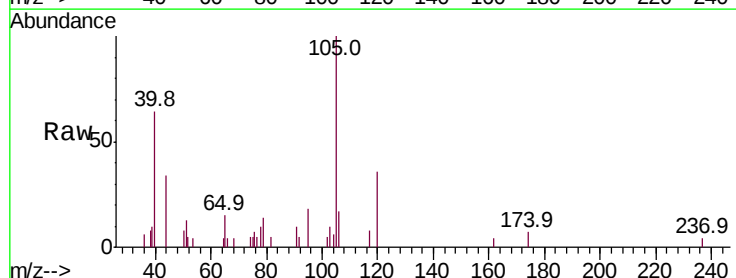
Instrument :
MSVOA_L
ClientSampled :

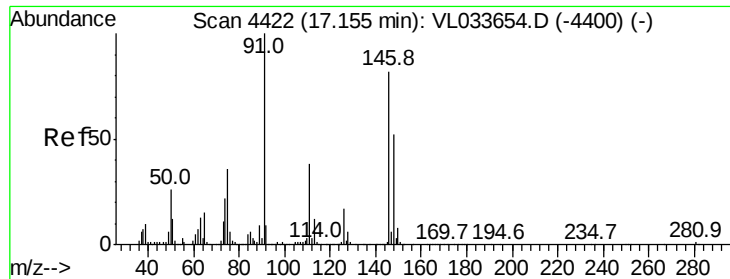
Tot Ion:112 Resp: 4317
Ion Ratio Lower Upper
112 100
77 91.6 54.4 81.6#
114 0.0 28.2 34.4#



#62
Isopropylbenzene
Concen: 0.015 ppbv
RT: 14.81 min Scan# 3694
Delta R.T. -0.01 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

Tgt Ion:105 Resp: 5710
Ion Ratio Lower Upper
105 100
120 0.0 20.5 30.7#





#66

Benzvl Chloride

Concen: 0.013 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

ClientSampleId :

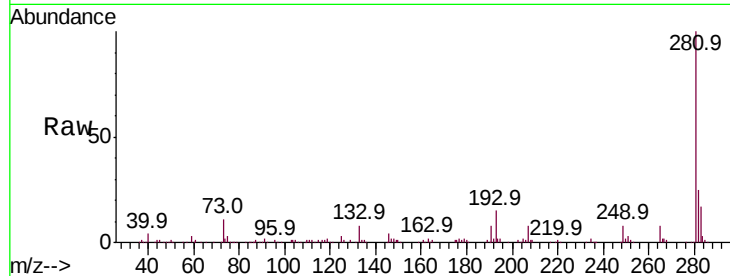
Tot Ion: 91 Resp: 1982

Ion Ratio Lower Upper

91 100

126 72.1 13.4 20.2#

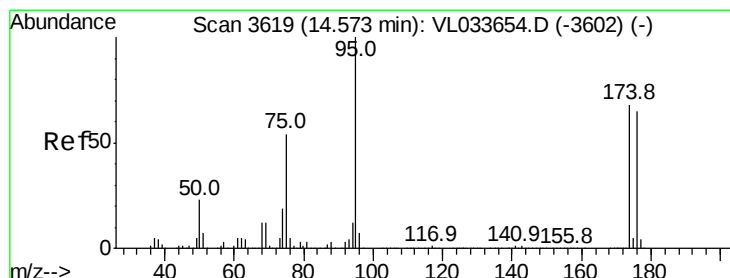
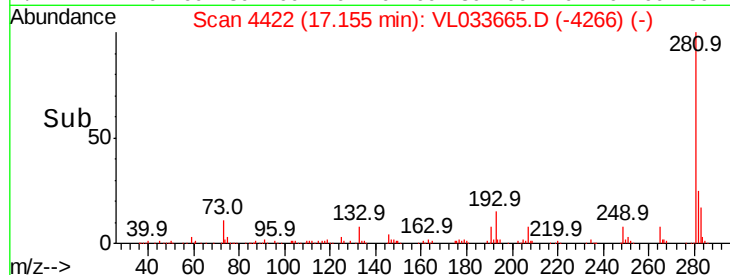
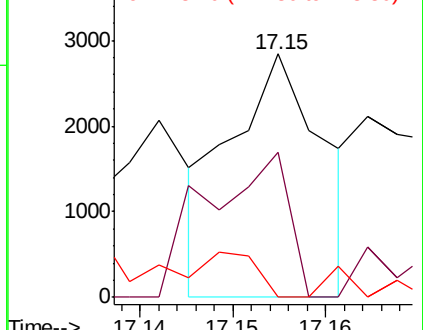
128 0.0 4.4 6.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.991 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

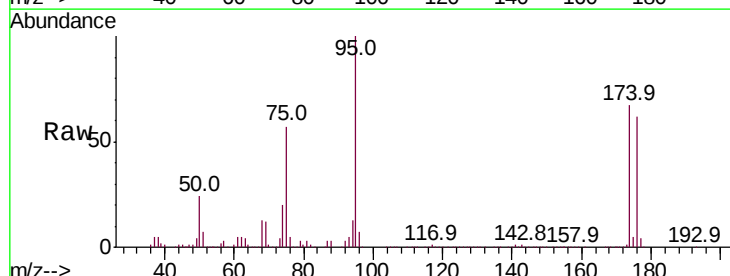
Tgt Ion: 95 Resp: 1937816

Ion Ratio Lower Upper

95 100

174 67.1 54.0 81.0

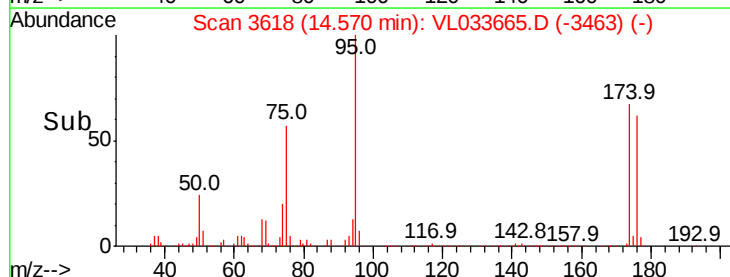
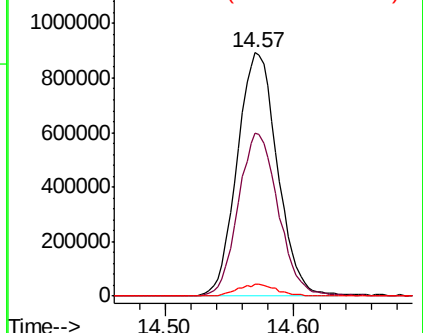
175 4.8 3.8 5.8

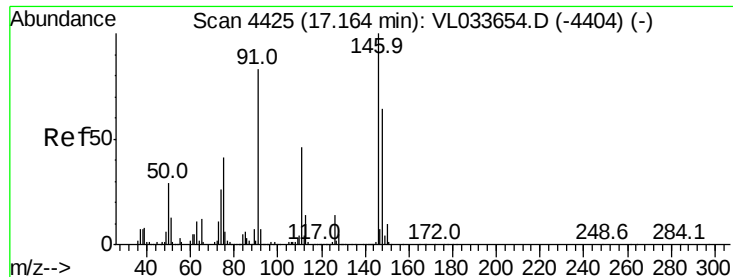


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#75

1,3-Dichlorobenzene

Concen: 0.021 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

ClientSampled :

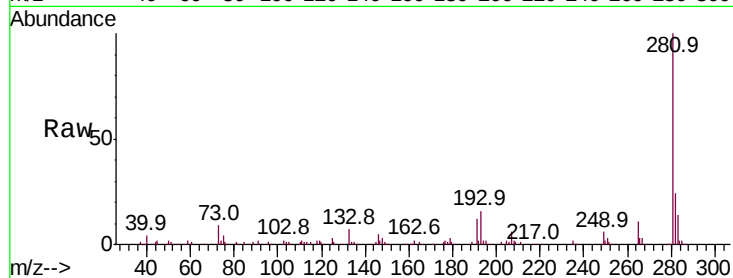
Tot Ion:146 Resp: 4443

Ion Ratio Lower Upper

146 100

111 0.0 22.6 67.7#

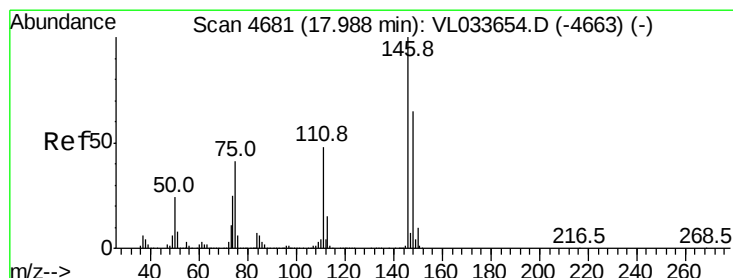
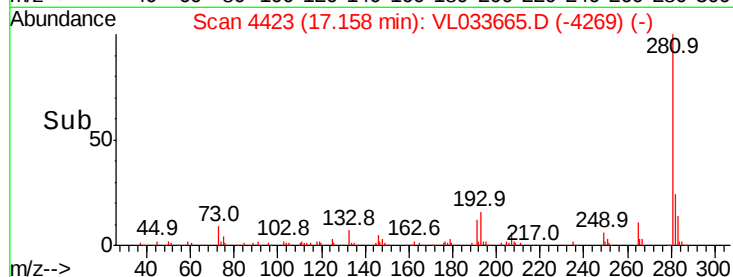
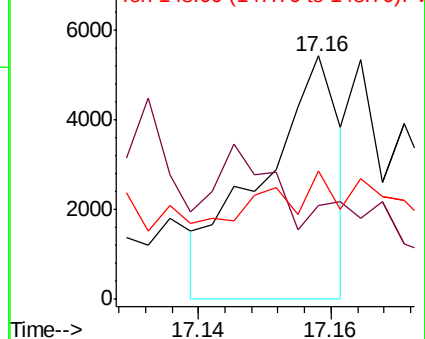
148 153.5 31.8 95.4#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.014 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

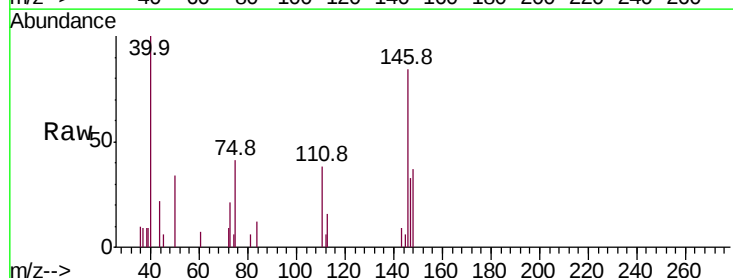
Tgt Ion:146 Resp: 2718

Ion Ratio Lower Upper

146 100

111 90.8 23.4 70.0#

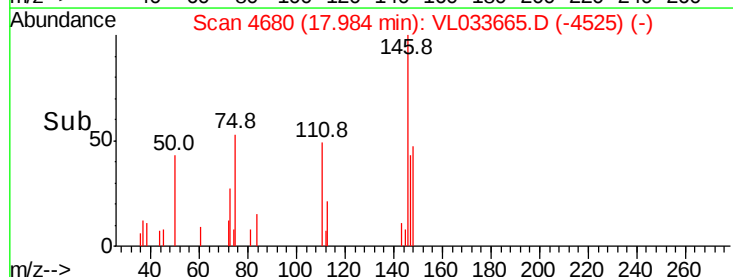
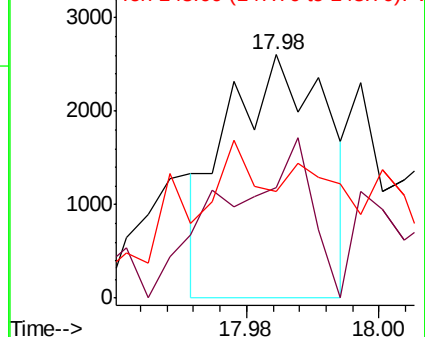
148 137.3 31.9 95.9#

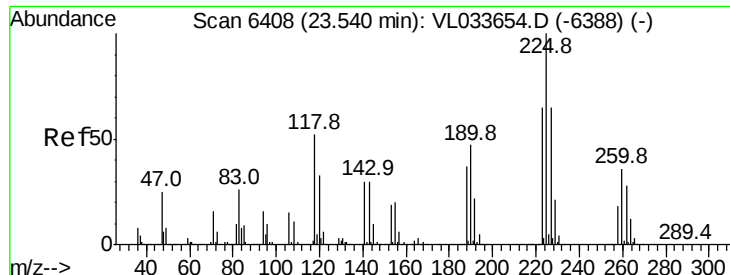


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.030 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

ClientSampled :

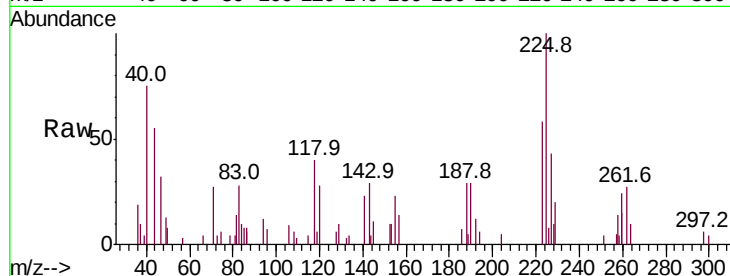
Tot Ion:225 Resp: 4616

Ion Ratio Lower Upper

225 100

223 119.4 50.7 76.1#

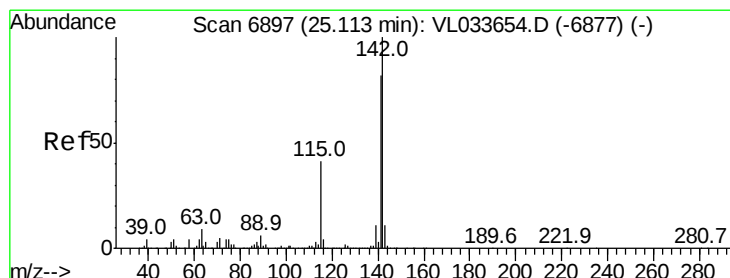
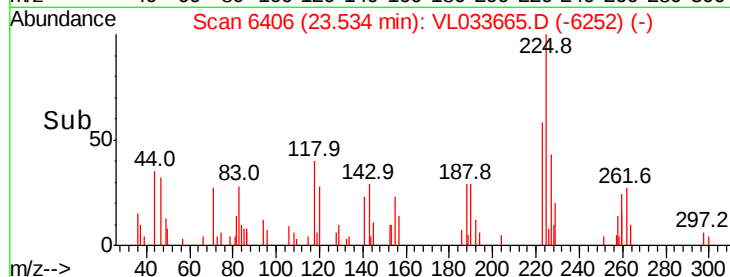
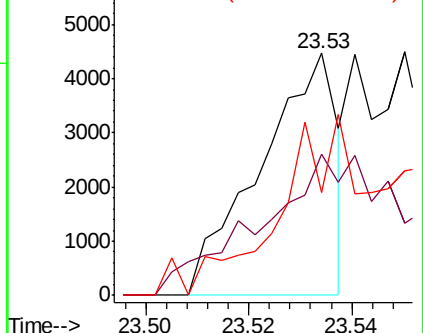
227 0.0 51.4 77.2#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#80

Naphthalene, 2-methyl-

Concen: 0.032 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

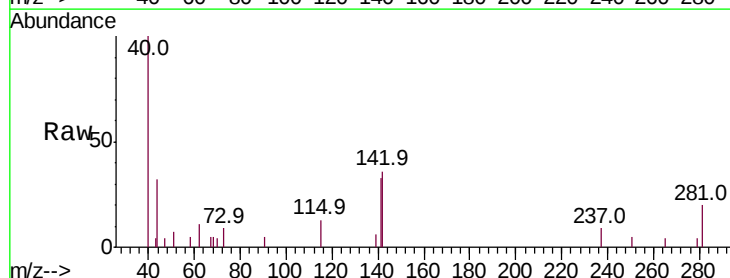
Tgt Ion:142 Resp: 3787

Ion Ratio Lower Upper

142 100

141 70.9 67.9 101.9

115 43.9 34.2 51.4



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

