

Data File : VL031216.D

Acq On : 14 Dec 2017 00:57

Operator : SY/AP

Sample : VSTDIC0.1

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Quant Time: Dec 14 03:44:03 2017

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 03:40:57 2017

QLast Update : Thu Dec 14 03:40:57 2017

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1665492	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3973339	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3895974	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2876781	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.18	85	24383	0.14	ppbv	91
3) Chlorodifluoromethane	3.11	51	21667	0.10	ppbv	99
4) Chloromethane	3.28	50	10752	0.13	ppbv	91
5) Vinyl Chloride	3.40	62	10237	0.11	ppbv	92
6) Bromomethane	3.63	94	7268	0.13	ppbv	94
7) Chloroethane	3.72	64	4251	0.13	ppbv	94
8) Dichlorotetrafluoroethane	3.32	85	25566	0.13	ppbv	99
9) Propene	3.13	41	6875	0.07	ppbv #	18
10) Heptane	8.40	43	30814	0.11	ppbv	100
11) Trichlorofluoromethane	4.13	101	24852	0.12	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.68	101	16103	0.14	ppbv	100
14) Bromoethene	3.91	108	7625	0.12	ppbv #	93
15) Acetone	4.05	43	64513	0.39	ppbv #	79
16) 1,3-Butadiene	3.48	39	11141	0.14	ppbv	98
18) 1,1-Dichloroethene	4.48	96	8337	0.14	ppbv	93
20) Methylene Chloride	4.54	84	11941	0.21	ppbv	89
21) Allyl Chloride	4.61	41	13910	0.17	ppbv #	85
22) trans-1,2-Dichloroethene	5.10	96	6147	0.09	ppbv	98
23) Vinyl Acetate	5.31	43	35947	0.12	ppbv #	95
24) 1,1-Dichloroethane	5.23	63	27266	0.11	ppbv #	97
25) Ethyl Acetate	5.93	43	44383	0.11	ppbv #	94
26) Hexane	5.93	57	21285	0.11	ppbv	92
27) Carbon Disulfide	4.76	76	17803	0.13	ppbv #	9
28) Methyl tert-Butyl Ether	5.28	73	13744	0.06	ppbv #	24
29) Chloroform	5.99	83	29012	0.10	ppbv	97
30) Cyclohexane	7.41	84	14143	0.09	ppbv #	12
31) cis-1,2-Dichloroethene	5.79	61	11450	0.06	ppbv	96
32) 1,1,1-Trichloroethane	6.77	97	27440	0.11	ppbv	98
35) Carbon Tetrachloride	7.29	117	26740	0.10	ppbv	94
36) Benzene	7.16	78	43946	0.10	ppbv #	90
37) 1,2-Dichloroethane	6.57	62	22891	0.09	ppbv #	93
38) Trichloroethene	8.12	130	17588	0.10	ppbv	93
39) 1,2-Dichloropropane	7.45	63	961323	5.52	ppbv #	26
42) Bromodichloromethane	8.08	83	17833	0.06	ppbv #	98
43) Methyl Methacrylate	8.31	69	14989	0.09	ppbv	95
44) 2,2,4-Trimethylpentane	8.15	57	65784	0.09	ppbv	95
45) t-1,3-Dichloropropene	9.58	75	10167	0.05	ppbv	95
46) cis-1,3-Dichloropropene	9.01	75	10929	0.04	ppbv	90
47) 1,1,2-Trichloroethane	9.77	97	9449	0.05	ppbv #	89
48) Dibromochloromethane	10.62	129	11979	0.05	ppbv #	10
49) Bromoform	13.37	173	14029	0.07	ppbv	99

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Instrument :
MSVOA_L
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VSTDIC0.1

Quant Time: Dec 14 03:44:03 2017

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 14 03:40:57 2017

QLast Update : Thu Dec 14 03:40:57 2017

Response via : Initial Calibration

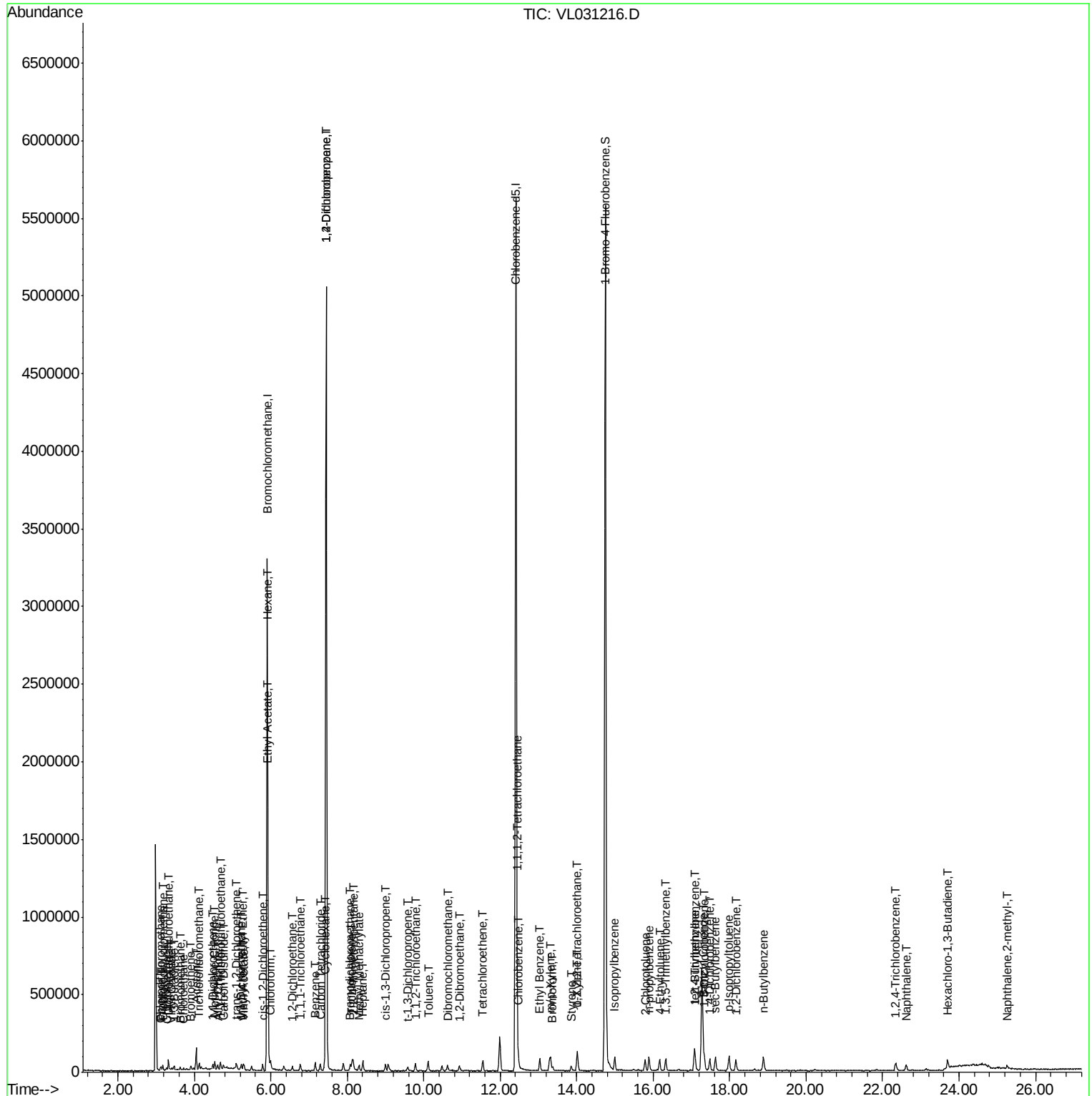
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Tetrachloroethene	11.55	164	16423	0.10	ppbv #	78
53) Toluene	10.12	91	48868	0.09	ppbv	99
54) 1,2-Dibromoethane	10.93	107	10814	0.04	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.45	131	13296	0.08	ppbv #	19
57) Chlorobenzene	12.48	112	15625	0.04	ppbv	98
58) Ethyl Benzene	13.04	91	70972	0.11	ppbv	95
59) m/p-Xylene	13.32	91	36095	0.06	ppbv #	29
60) o-Xylene	14.02	91	58061	0.10	ppbv	97
61) Styrene	13.86	104	10783	0.08	ppbv #	39
62) Isopropylbenzene	15.00	105	74564	0.11	ppbv	98
63) 1,1,2,2-Tetrachloroethane	14.01	83	18843	0.04	ppbv #	29
64) n-propylbenzene	15.90	120	14718	0.08	ppbv #	15
65) tert-Butylbenzene	17.08	119	66694	0.11	ppbv	96
66) Benzyl Chloride	17.32	91	2285	0.05	ppbv #	64
67) sec-Butylbenzene	17.62	105	41920	0.05	ppbv #	51
69) p-Isopropyltoluene	17.99	119	33601	0.05	ppbv #	31
70) n-Butylbenzene	18.88	91	80020	0.11	ppbv	96
71) 2-Chlorotoluene	15.78	91	54015	0.10	ppbv	96
72) 4-Ethyltoluene	16.17	105	65007	0.11	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	39922	0.08	ppbv	97
74) 1,2,4-Trimethylbenzene	17.10	105	63725	0.11	ppbv	96
75) 1,3-Dichlorobenzene	17.34	146	37661	0.10	ppbv	88
76) 1,4-Dichlorobenzene	17.48	146	38605	0.11	ppbv	93
77) 1,2-Dichlorobenzene	18.16	146	38797	0.11	ppbv	97
78) Hexachloro-1,3-Butadiene	23.70	225	5288	0.08	ppbv #	16
79) Naphthalene	22.62	128	36496	0.09	ppbv	98
80) Naphthalene,2-methyl-	25.25	142	14682	0.13	ppbv	94
81) 1,2,4-Trichlorobenzene	22.34	180	8616	0.04	ppbv #	12

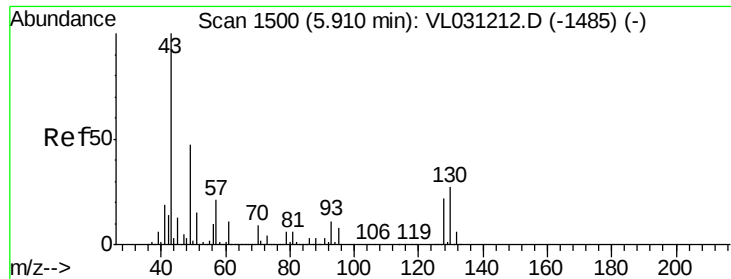
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC0.1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

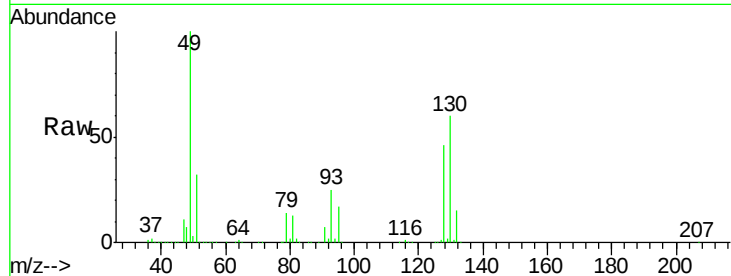
Tgt Ion: 49 Resp: 1665492

Ion Ratio Lower Upper

49 100

128 48.3 23.2 69.5

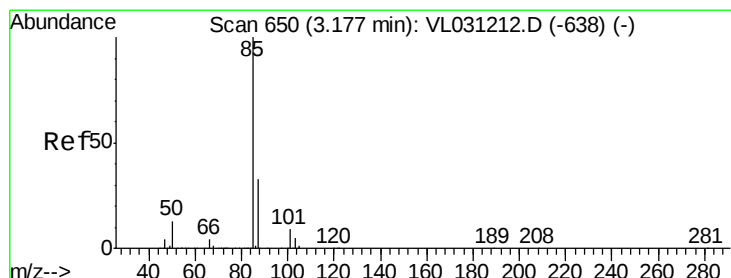
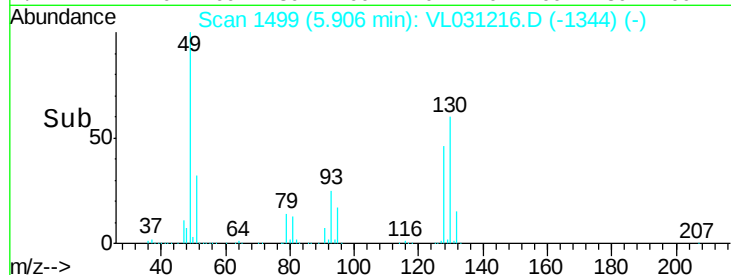
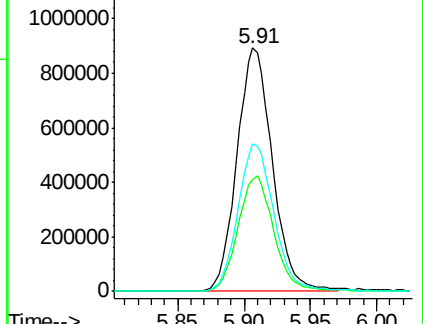
130 61.7 29.6 88.8



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: 0.14 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031216.D

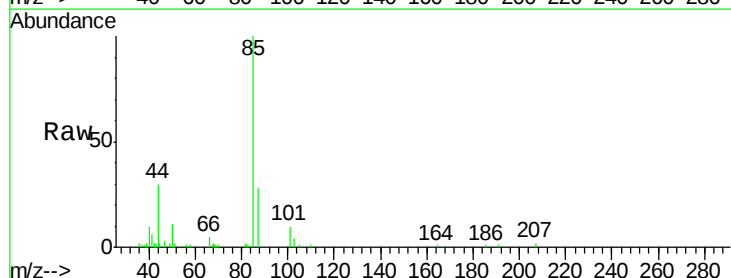
Acq: 14 Dec 2017 00:57

Tgt Ion: 85 Resp: 24383

Ion Ratio Lower Upper

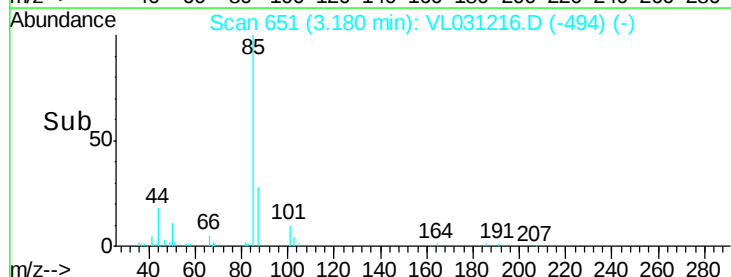
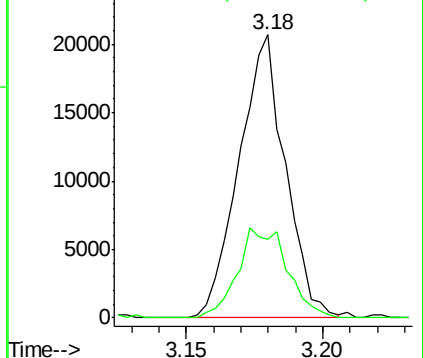
85 100

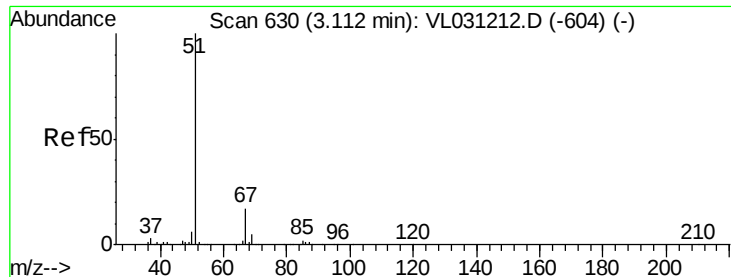
87 27.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.10 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

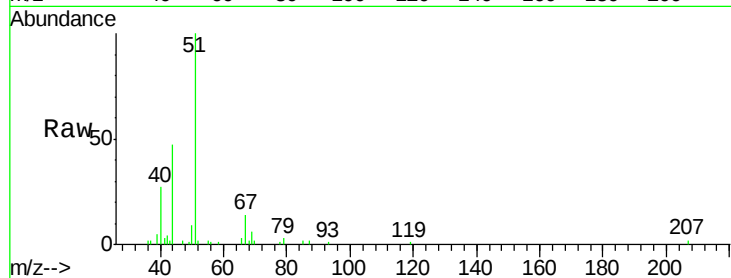
VSTDIC0.1

Tgt Ion: 51 Resp: 21667

Ion Ratio Lower Upper

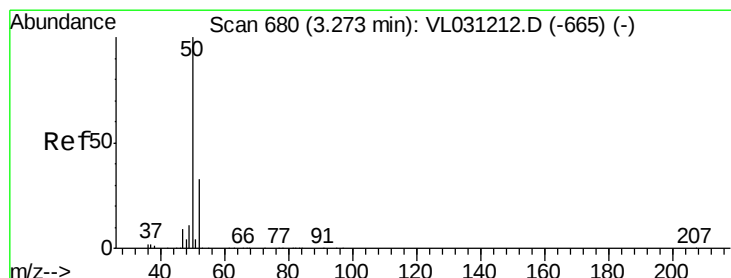
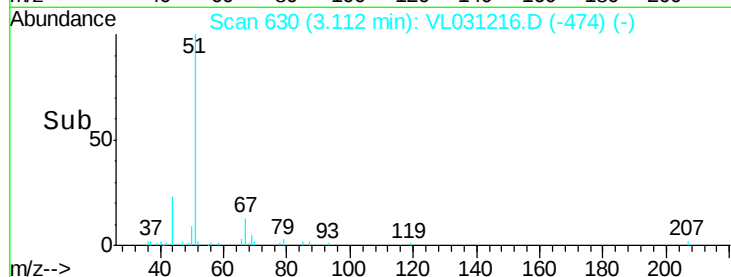
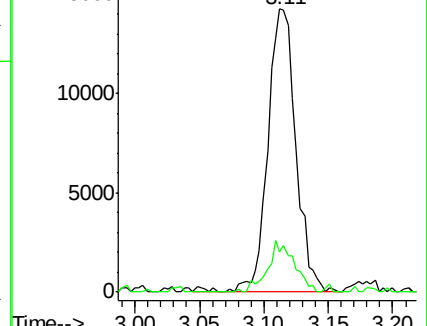
51 100

67 17.7 13.8 20.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031216.D

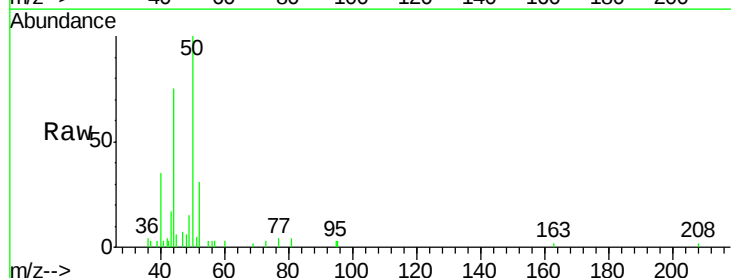
Acq: 14 Dec 2017 00:57

Tgt Ion: 50 Resp: 10752

Ion Ratio Lower Upper

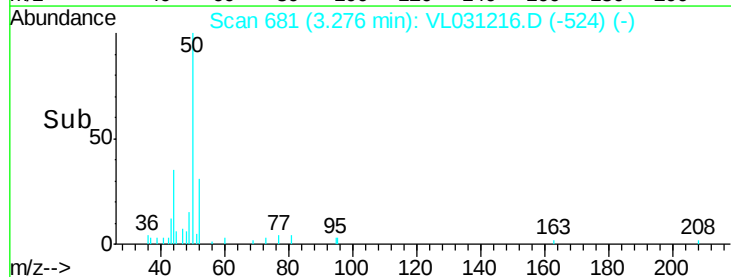
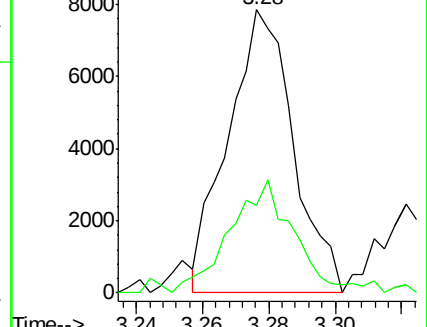
50 100

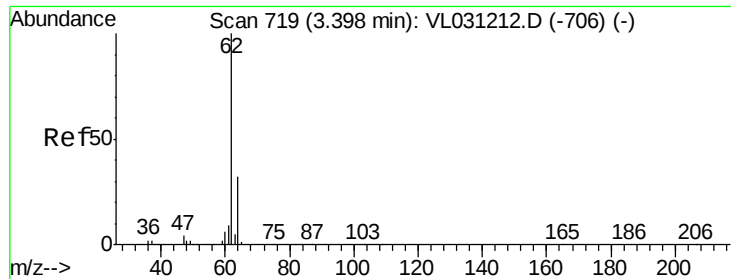
52 28.1 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.11 ppbv

RT: 3.40 min Scan# 720

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

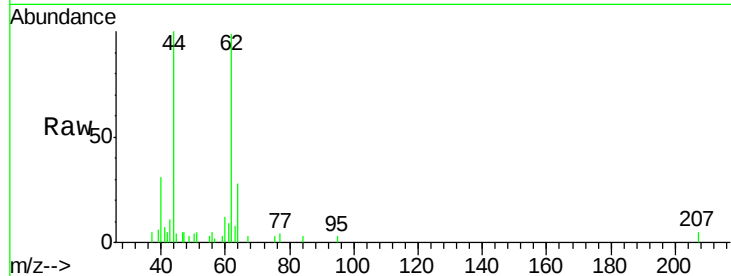
VSTDIC0.1

Tgt Ion: 62 Resp: 10237

Ion Ratio Lower Upper

62 100

64 28.1 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.40

8000

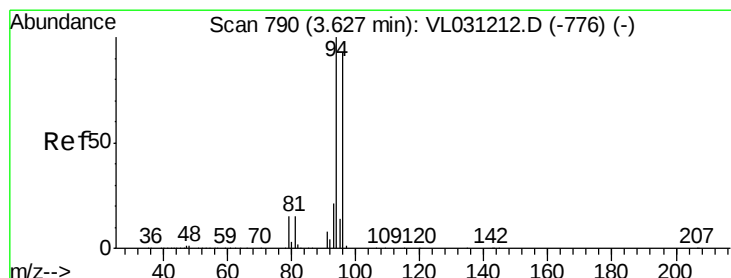
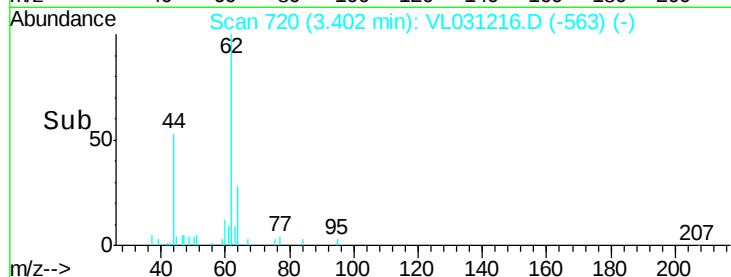
6000

4000

2000

0

Time--> 3.35 3.40 3.45



#6

Bromomethane

Concen: 0.13 ppbv

RT: 3.63 min Scan# 791

Delta R.T. 0.00 min

Lab File: VL031216.D

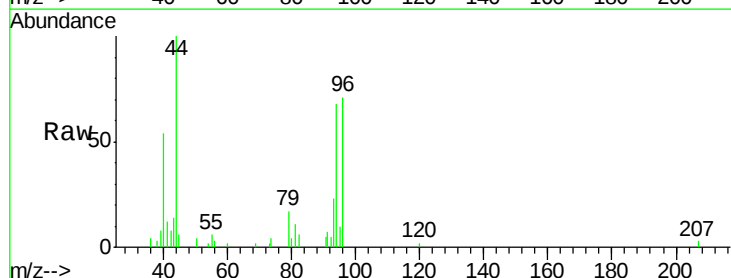
Acq: 14 Dec 2017 00:57

Tgt Ion: 94 Resp: 7268

Ion Ratio Lower Upper

94 100

96 99.0 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.63

6000

5000

4000

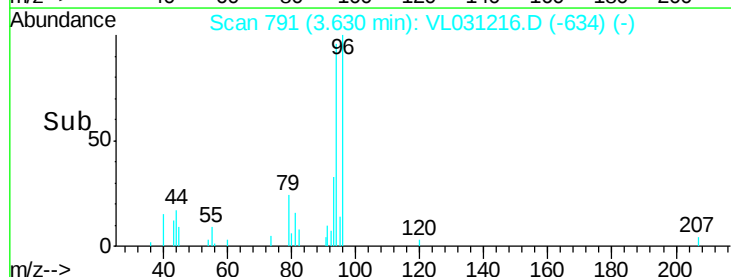
3000

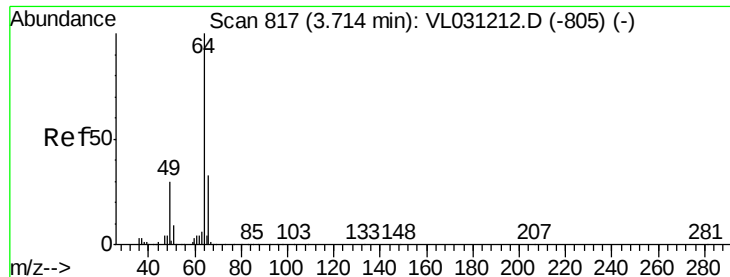
2000

1000

0

Time--> 3.60 3.65





#7

Chloroethane

Concen: 0.13 ppbv

RT: 3.72 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

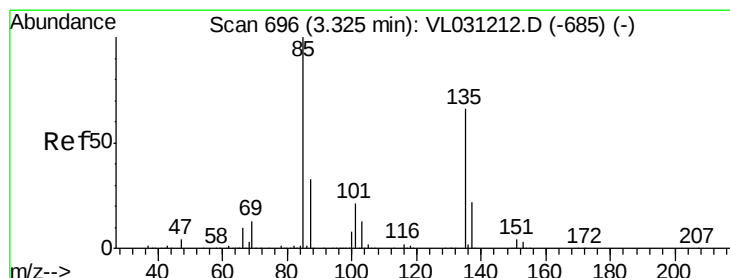
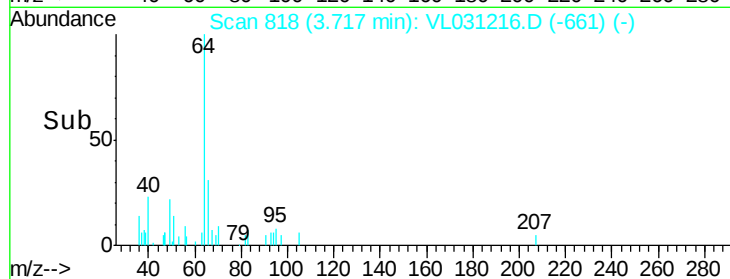
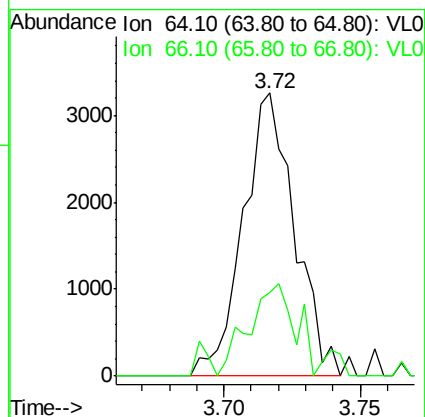
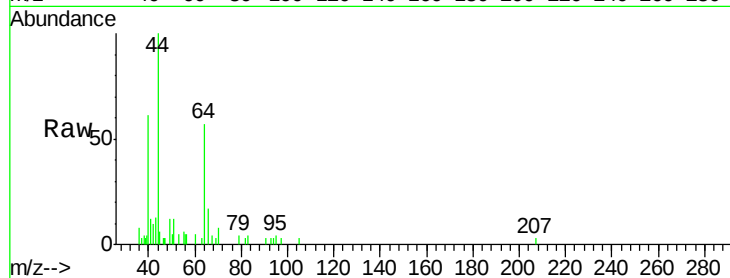
VSTDIC0.1

Tgt Ion: 64 Resp: 4251

Ion Ratio Lower Upper

64 100

66 29.4 26.2 39.2



#8

Dichlorotetrafluoroethane

Concen: 0.13 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031216.D

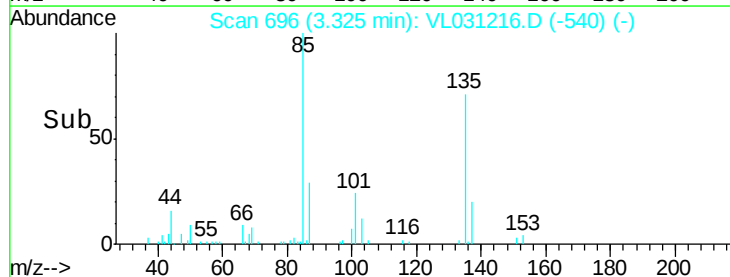
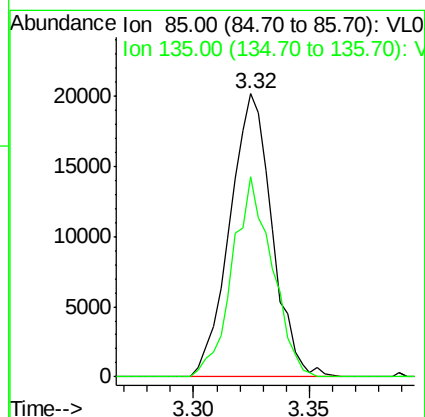
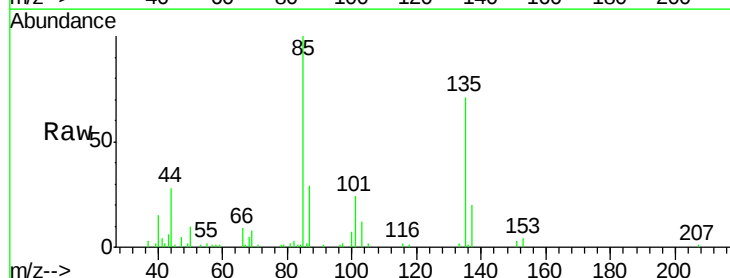
Acq: 14 Dec 2017 00:57

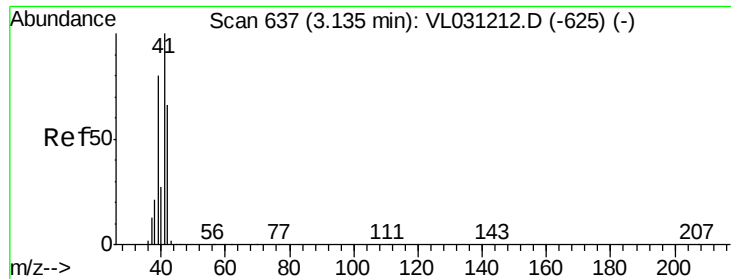
Tgt Ion: 85 Resp: 25566

Ion Ratio Lower Upper

85 100

135 66.3 54.0 81.0





#9

Propene

Concen: 0.07 ppbv

RT: 3.13 min Scan# 637

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

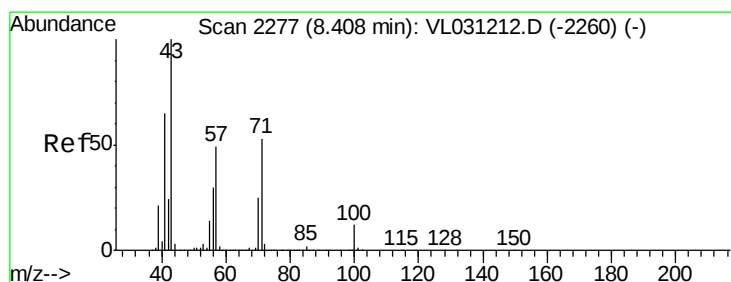
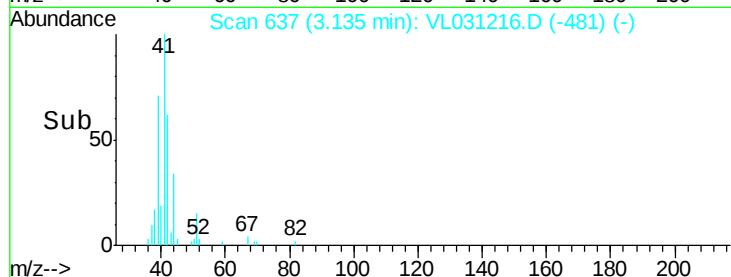
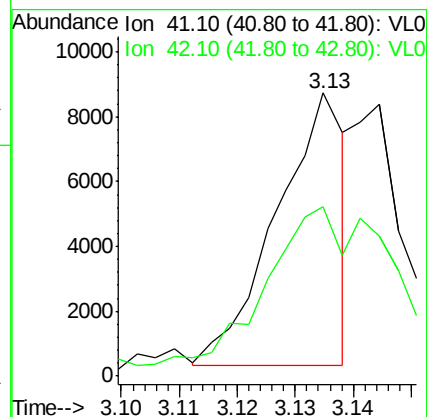
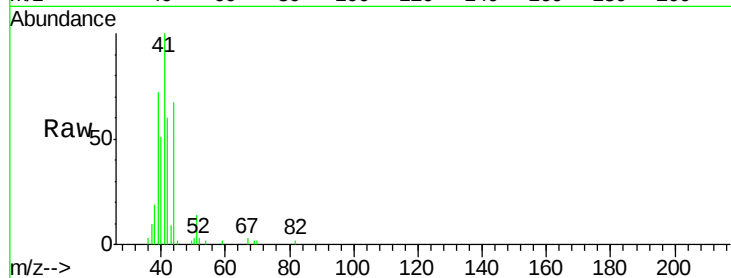
VSTDIC0.1

Tgt Ion: 41 Resp: 6875

Ion Ratio Lower Upper

41 100

42 134.1 54.3 81.5#



#10

Heptane

Concen: 0.11 ppbv

RT: 8.40 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL031216.D

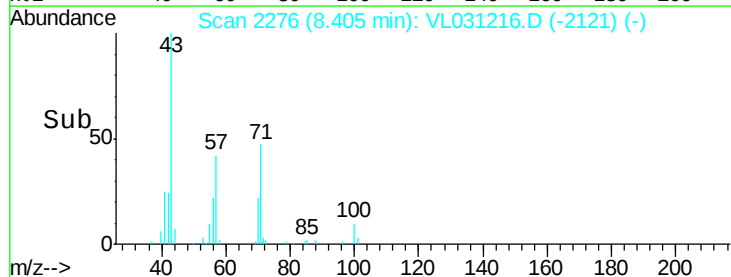
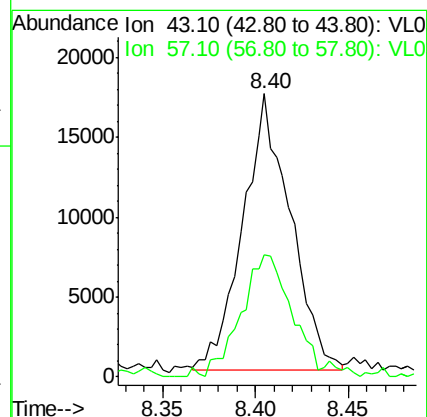
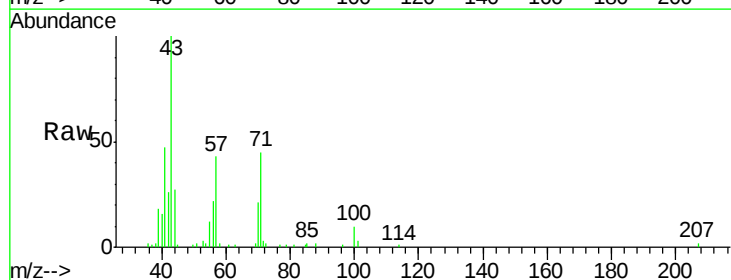
Acq: 14 Dec 2017 00:57

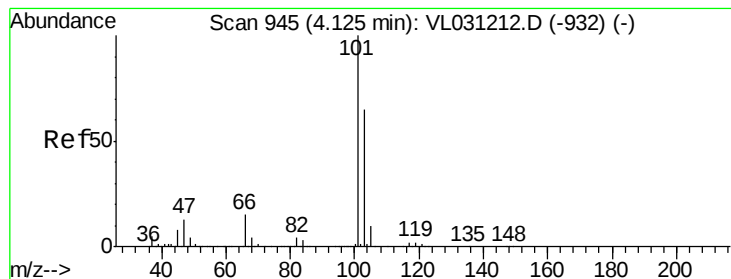
Tgt Ion: 43 Resp: 30814

Ion Ratio Lower Upper

43 100

57 49.9 39.8 59.8





#11

Trichlorofluoromethane

Concen: 0.12 ppbv

RT: 4.13 min Scan# 947

Delta R.T. 0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

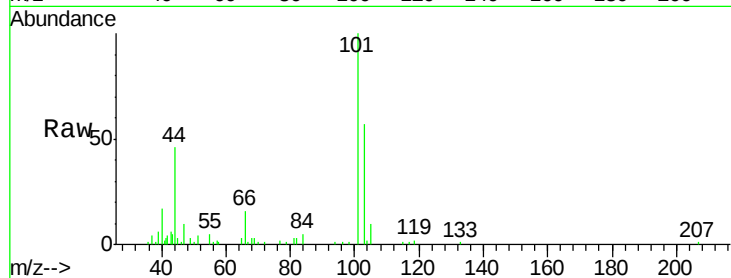
VSTDIC0.1

Tgt Ion:101 Resp: 24852

Ion Ratio Lower Upper

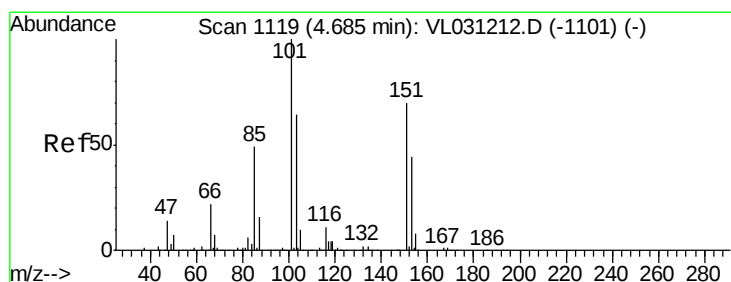
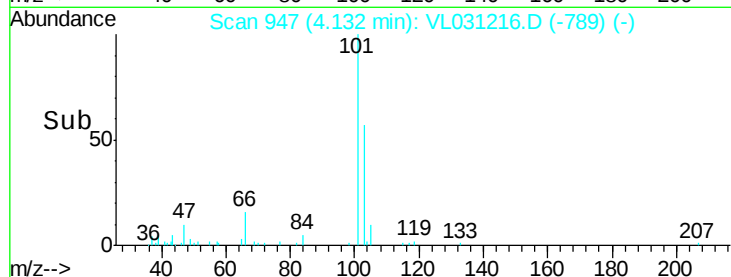
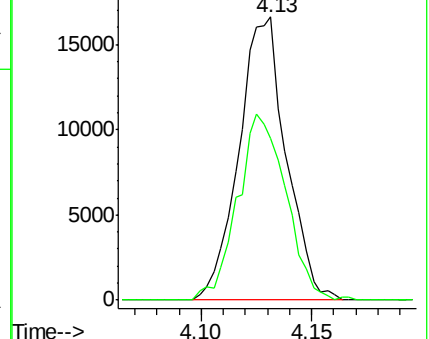
101 100

103 57.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.14 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031216.D

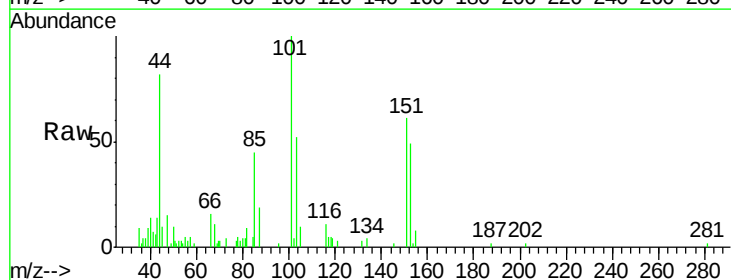
Acq: 14 Dec 2017 00:57

Tgt Ion:101 Resp: 16103

Ion Ratio Lower Upper

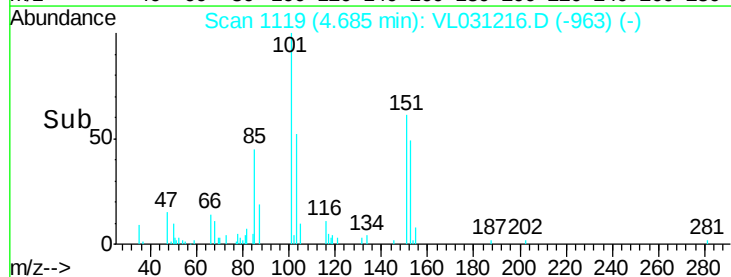
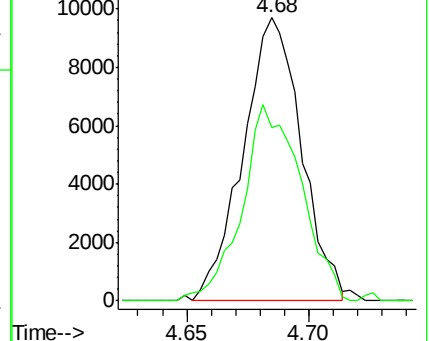
101 100

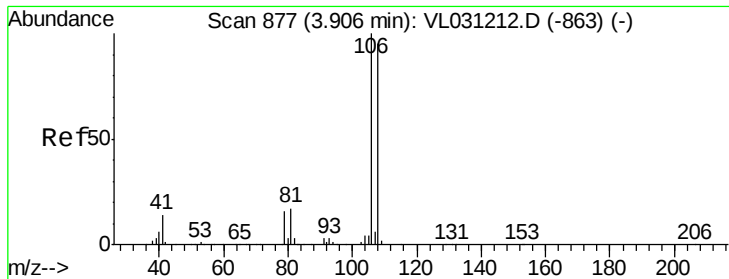
151 70.6 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.12 ppbv

RT: 3.91 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

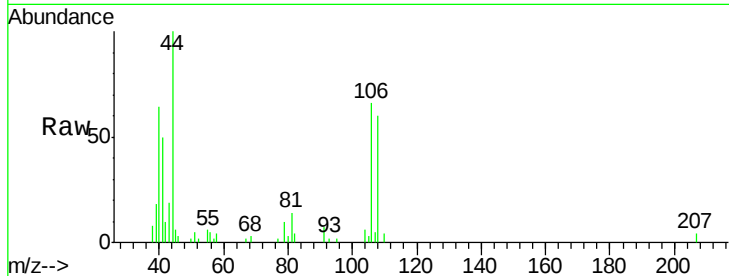
Tgt Ion:108 Resp: 7625

Ion Ratio Lower Upper

108 100

106 111.0 86.5 129.7

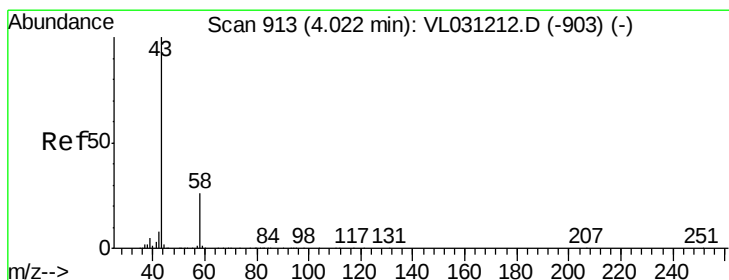
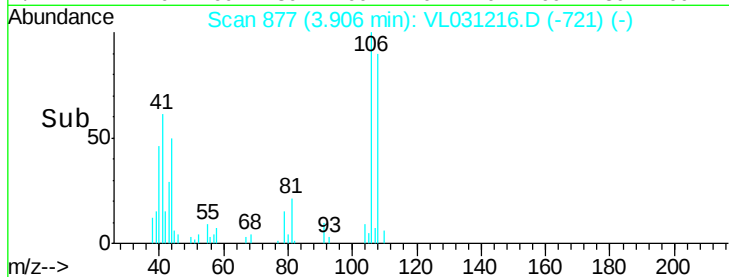
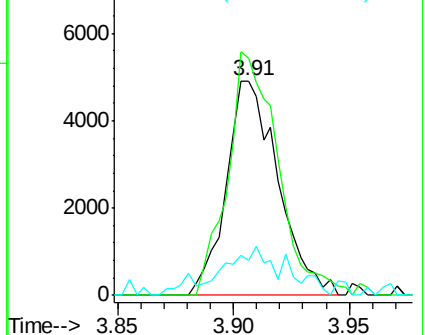
79 31.9 14.2 21.4#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 0.39 ppbv

RT: 4.05 min Scan# 921

Delta R.T. 0.03 min

Lab File: VL031216.D

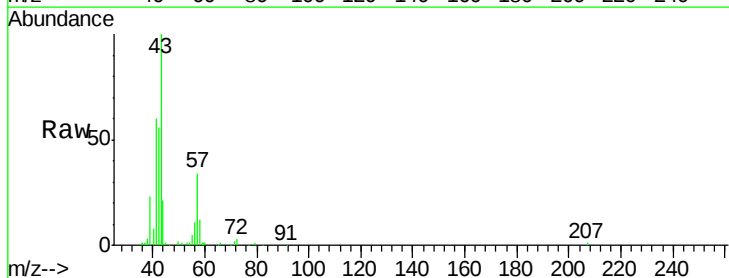
Acq: 14 Dec 2017 00:57

Tgt Ion: 43 Resp: 64513

Ion Ratio Lower Upper

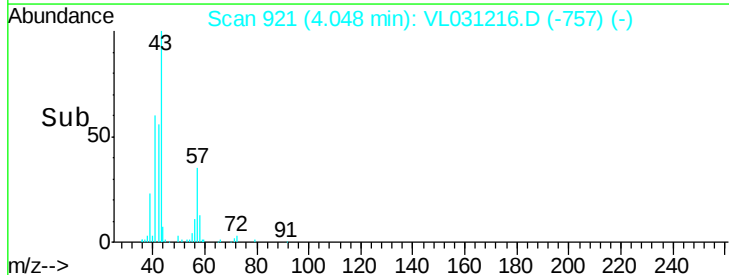
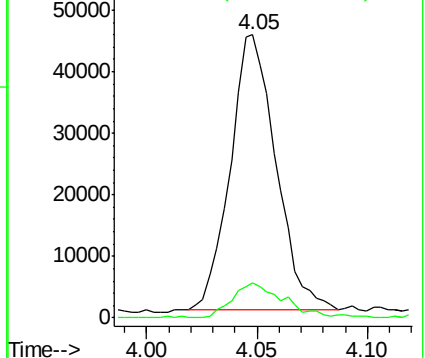
43 100

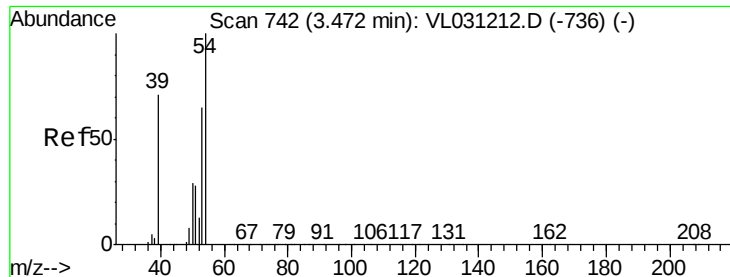
58 14.6 20.3 30.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

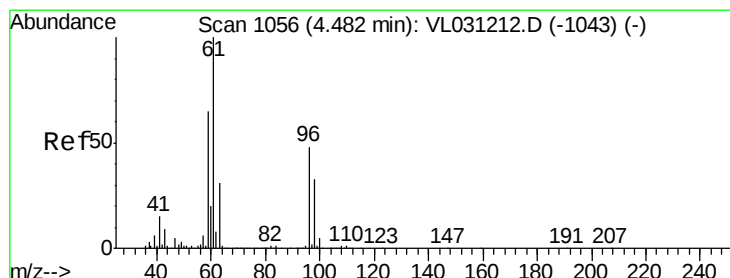
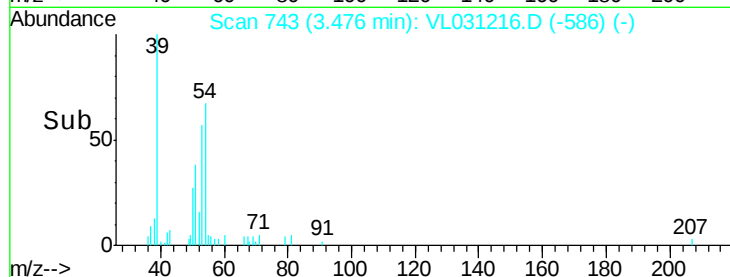
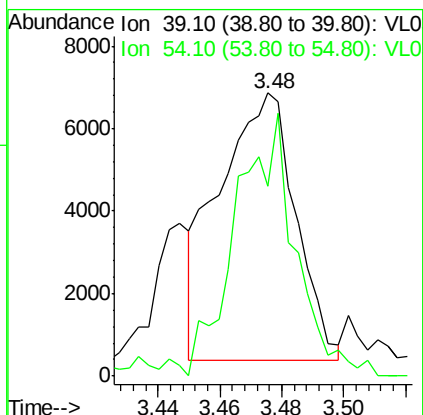
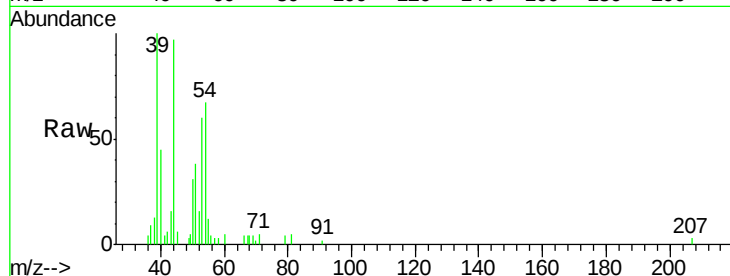




#16
 1,3-Butadiene
 Concen: 0.14 ppbv
 RT: 3.48 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

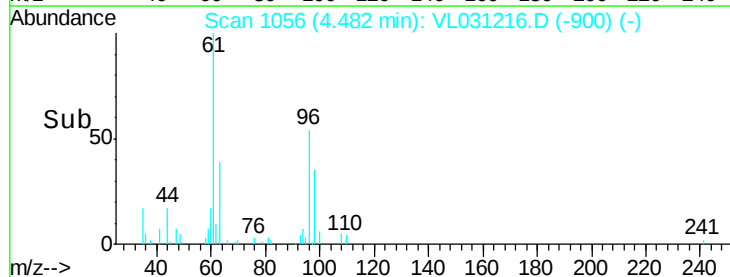
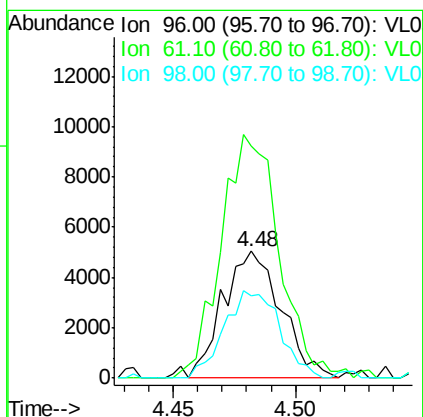
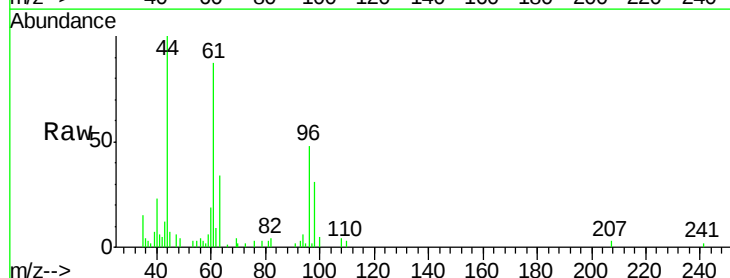
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

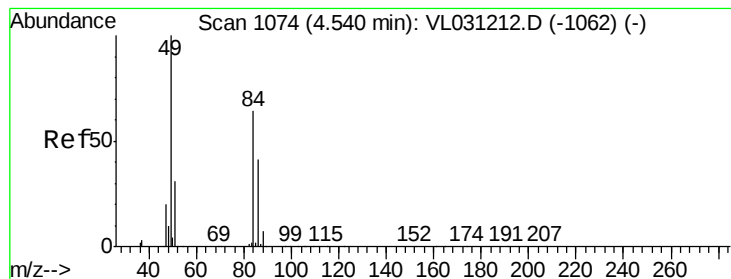
Tgt Ion: 39 Resp: 11141
 Ion Ratio Lower Upper
 39 100
 54 81.3 66.4 99.6



#18
 1,1-Dichloroethene
 Concen: 0.14 ppbv
 RT: 4.48 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion: 96 Resp: 8337
 Ion Ratio Lower Upper
 96 100
 61 197.1 166.8 250.2
 98 64.9 55.0 82.6





#20

Methylene Chloride

Concen: 0.21 ppbv

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 84 Resp: 11941

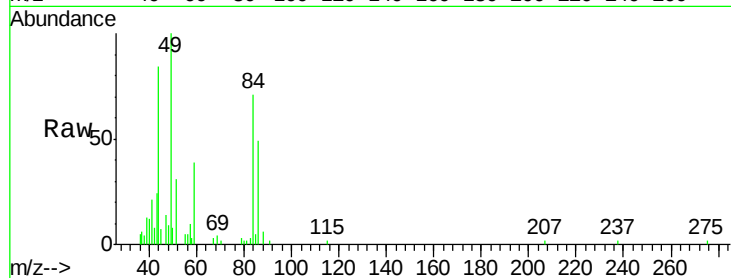
Ion Ratio Lower Upper

84 100

49 140.9 125.8 188.6

51 40.6 39.3 58.9

86 68.0 51.1 76.7

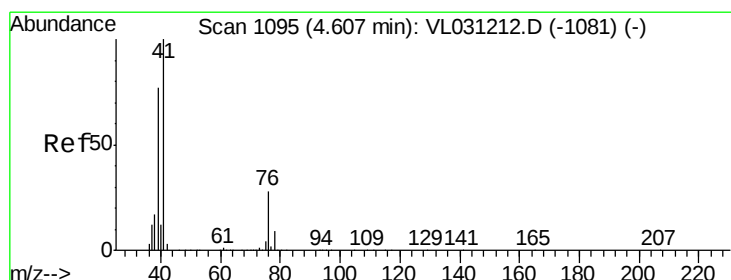
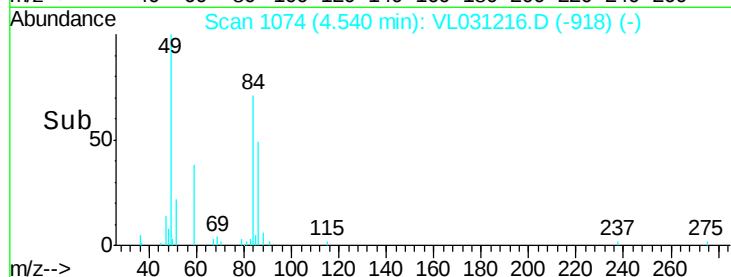
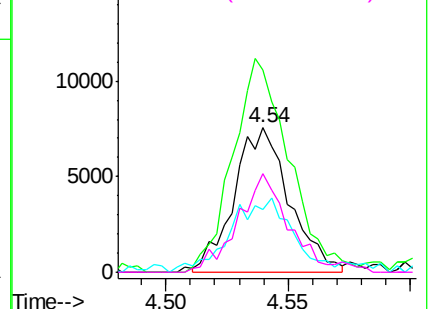


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.17 ppbv

RT: 4.61 min Scan# 1096

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

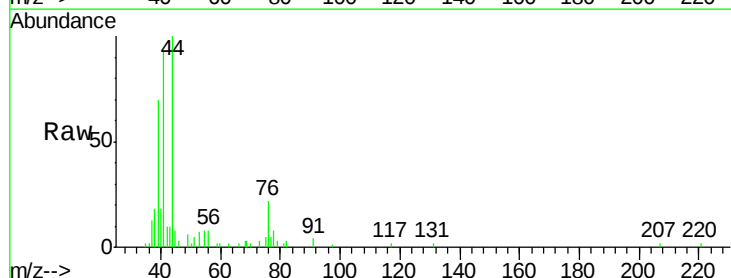
Tgt Ion: 41 Resp: 13910

Ion Ratio Lower Upper

41 100

76 30.9 22.9 34.3

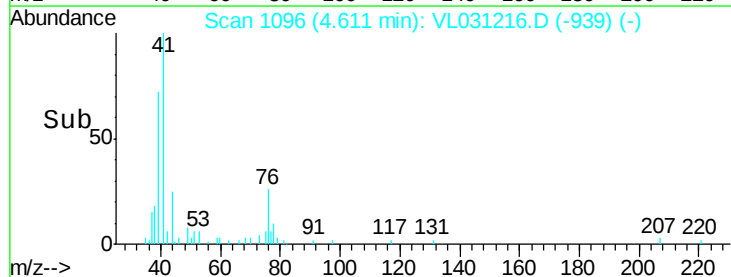
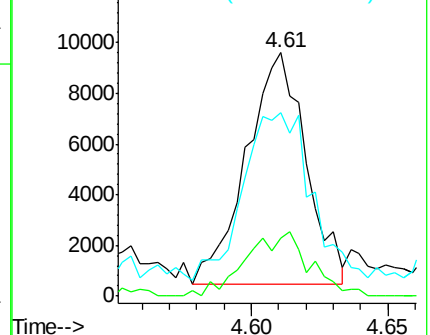
39 94.6 62.6 93.8#

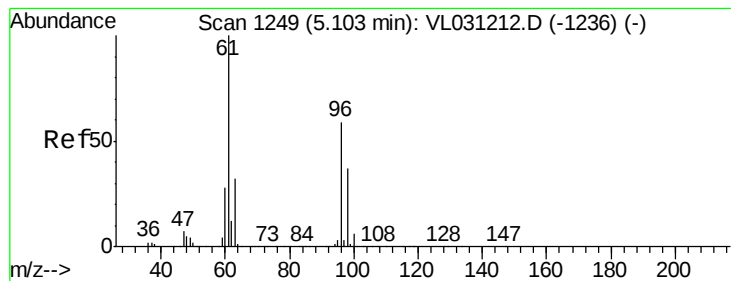


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.09 ppbv

RT: 5.10 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

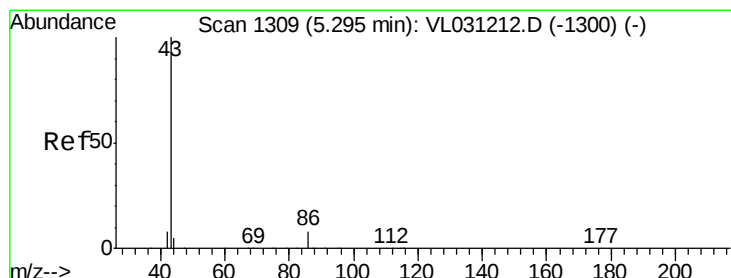
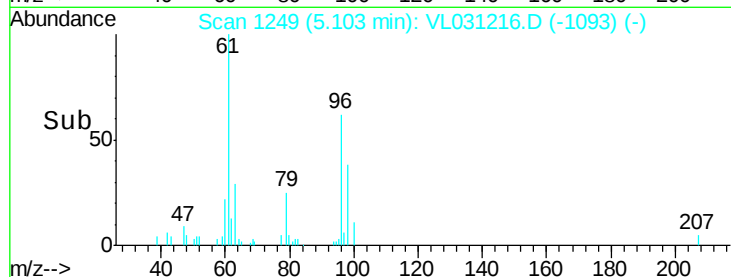
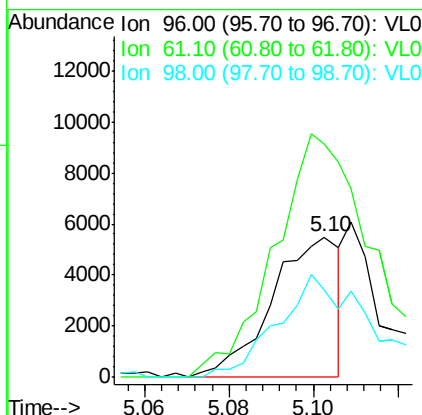
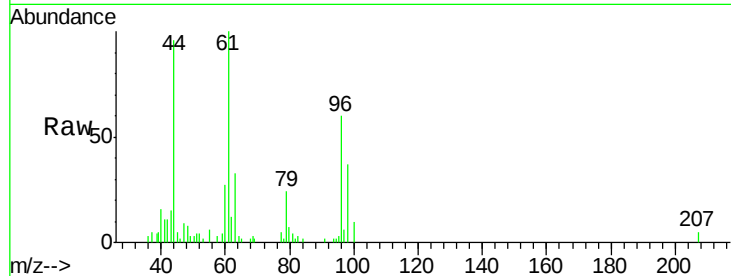
Tgt Ion: 96 Resp: 6147

Ion Ratio Lower Upper

96 100

61 166.6 135.0 202.4

98 61.9 50.5 75.7



#23

Vinyl Acetate

Concen: 0.12 ppbv

RT: 5.31 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Tgt Ion: 43 Resp: 35947

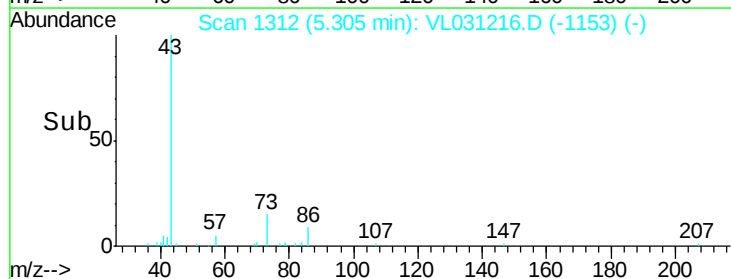
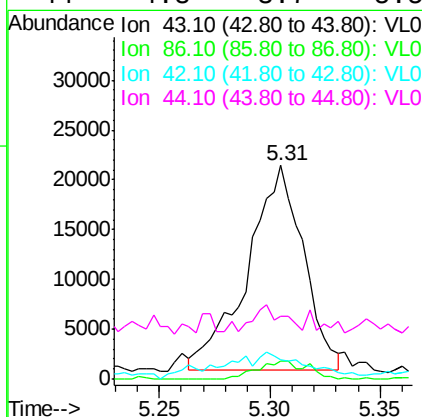
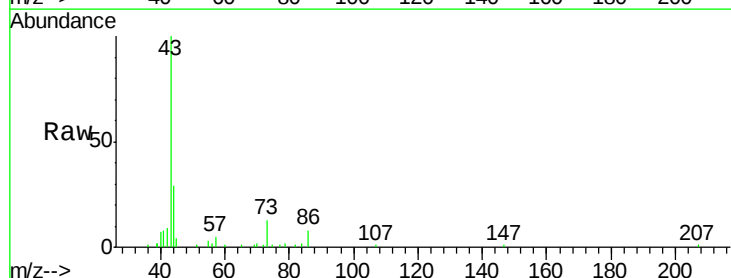
Ion Ratio Lower Upper

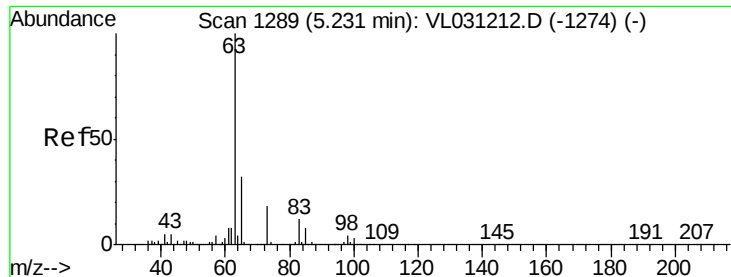
43 100

86 9.2 5.9 8.9#

42 6.4 7.3 10.9#

44 4.8 3.7 5.5





#24

1,1-Dichloroethane

Concen: 0.11 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

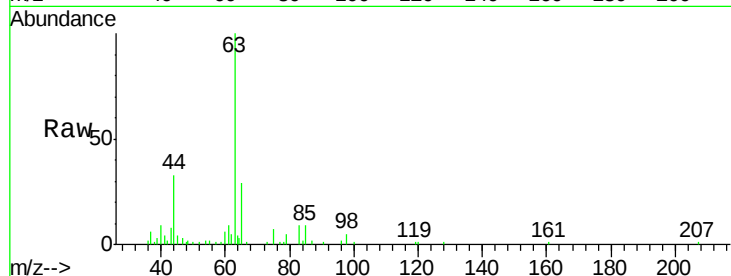
Tgt Ion: 63 Resp: 27266

Ion Ratio Lower Upper

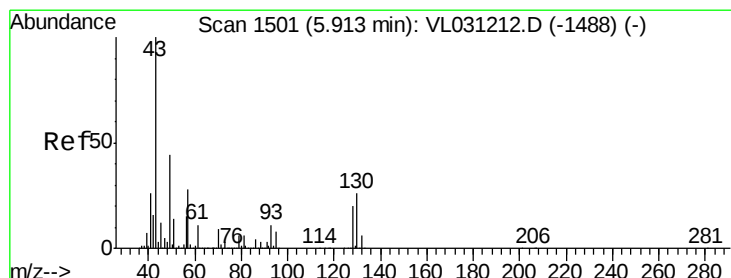
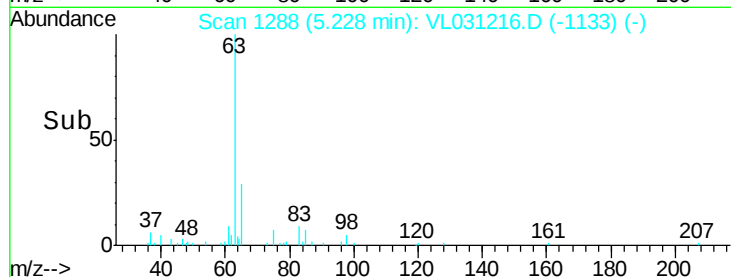
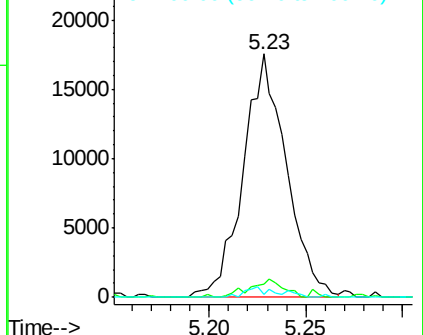
63 100

98 5.2 2.3 6.8

100 1.3 1.4 4.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.11 ppbv

RT: 5.93 min Scan# 1507

Delta R.T. 0.02 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Tgt Ion: 43 Resp: 44383

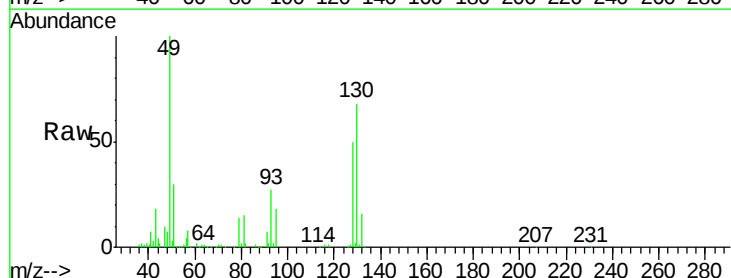
Ion Ratio Lower Upper

43 100

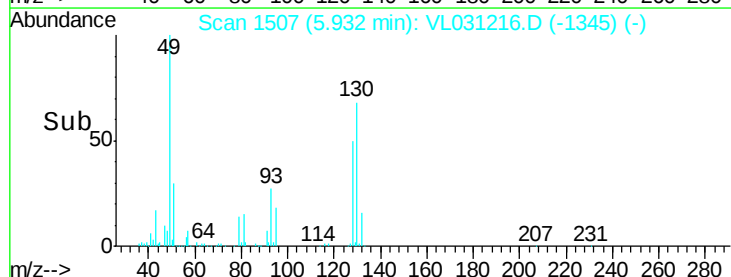
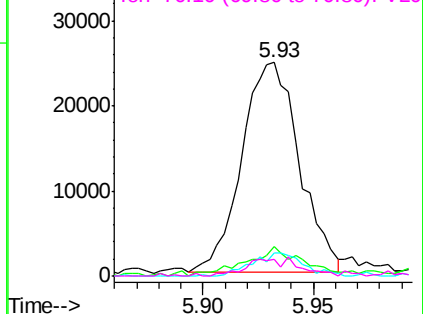
45 14.5 8.0 12.0#

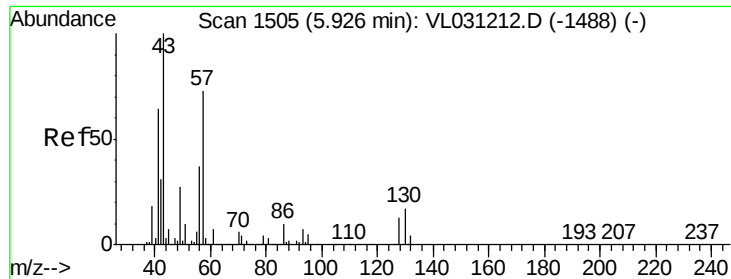
61 10.2 7.4 11.0

70 7.7 5.8 8.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

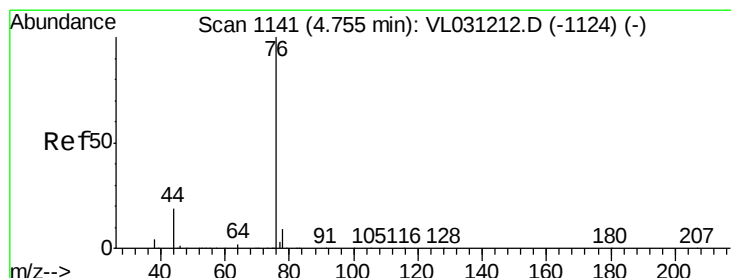
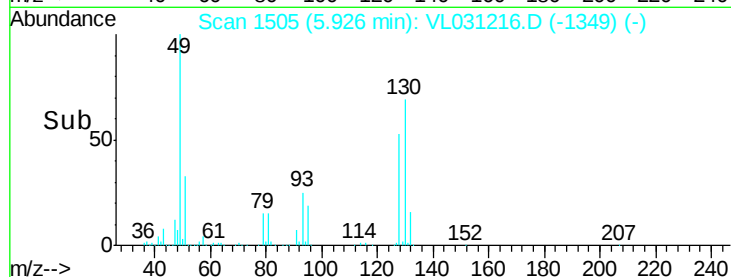
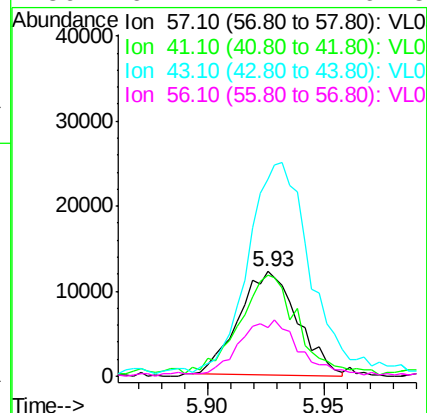
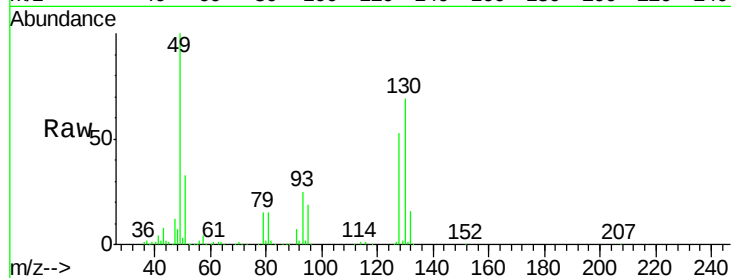




#26
Hexane
Concen: 0.11 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

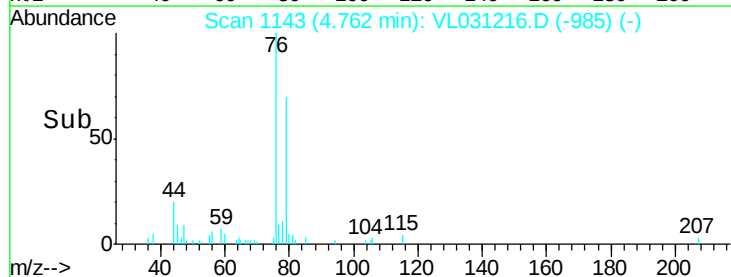
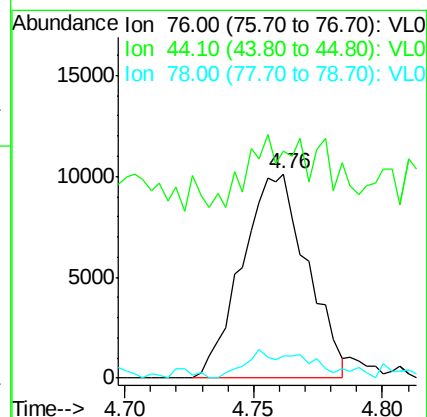
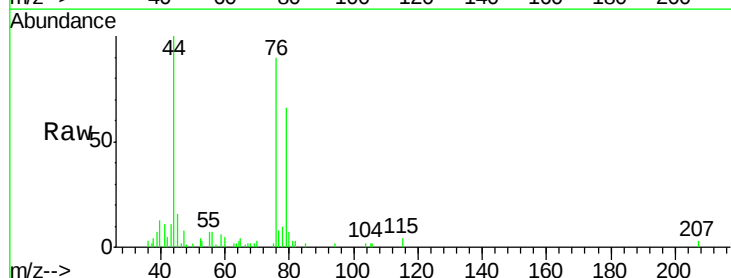
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

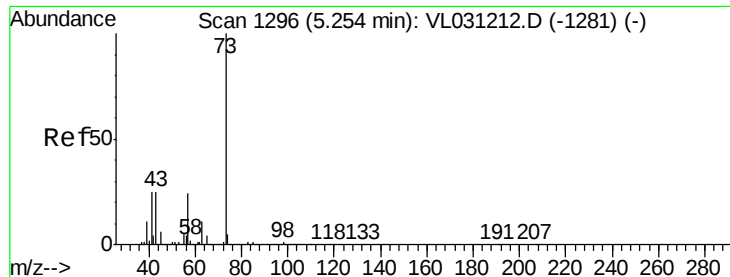
Tgt Ion: 57 Resp: 21285
Ion Ratio Lower Upper
57 100
41 100.4 70.3 105.5
43 225.5 173.8 260.8
56 61.1 41.7 62.5



#27
Carbon Disulfide
Concen: 0.13 ppbv
RT: 4.76 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

Tgt Ion: 76 Resp: 17803
Ion Ratio Lower Upper
76 100
44 78.2 16.0 24.0#
78 15.5 7.5 11.3#





#28

Methyl tert-Butyl Ether

Concen: 0.06 ppbv

RT: 5.28 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

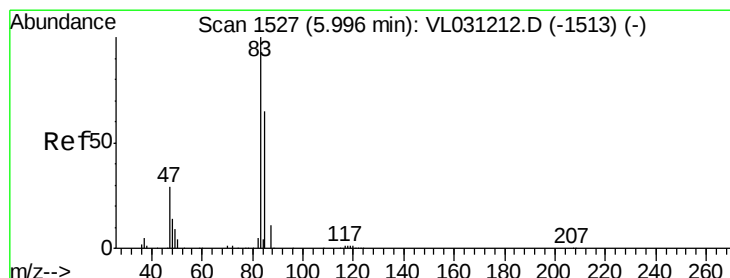
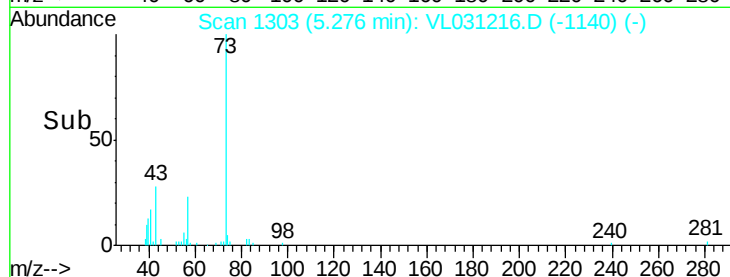
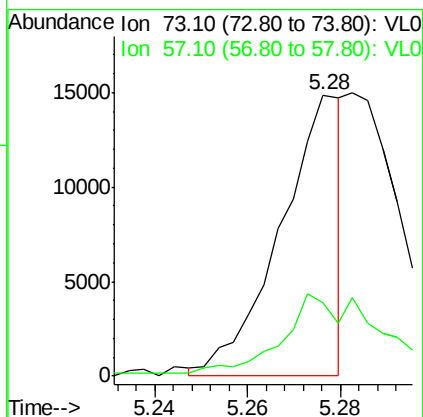
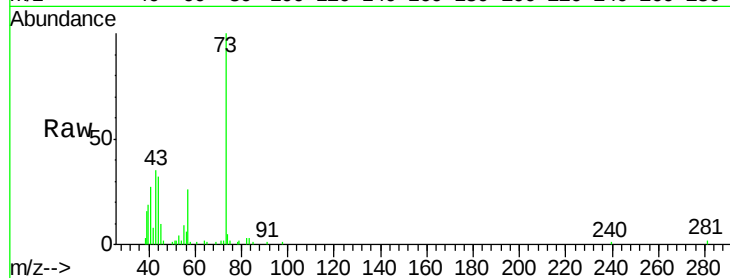
VSTDIC0.1

Tgt Ion: 73 Resp: 13744

Ion Ratio Lower Upper

73 100

57 60.1 18.5 27.7#



#29

Chloroform

Concen: 0.10 ppbv

RT: 5.99 min Scan# 1525

Delta R.T. -0.01 min

Lab File: VL031216.D

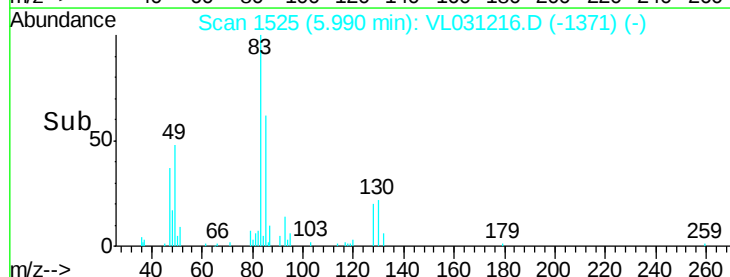
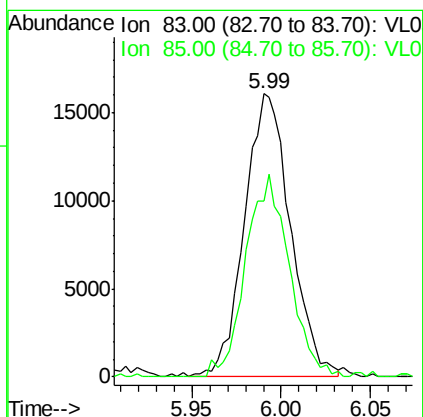
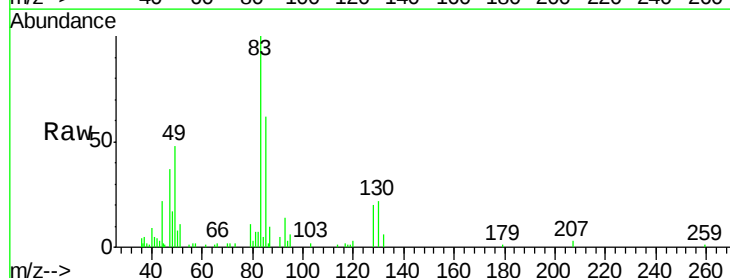
Acq: 14 Dec 2017 00:57

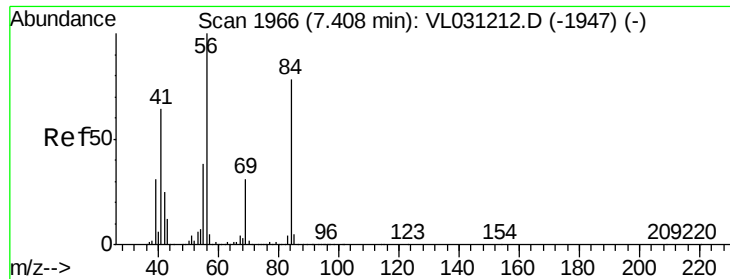
Tgt Ion: 83 Resp: 29012

Ion Ratio Lower Upper

83 100

85 62.3 51.8 77.6

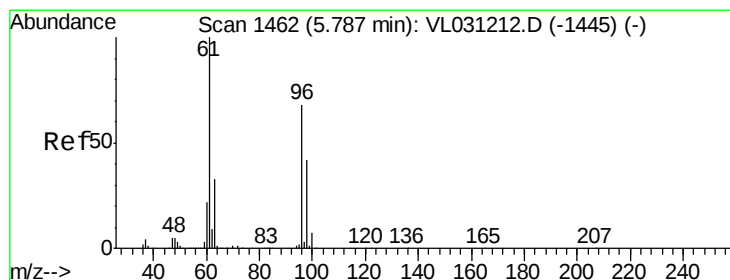
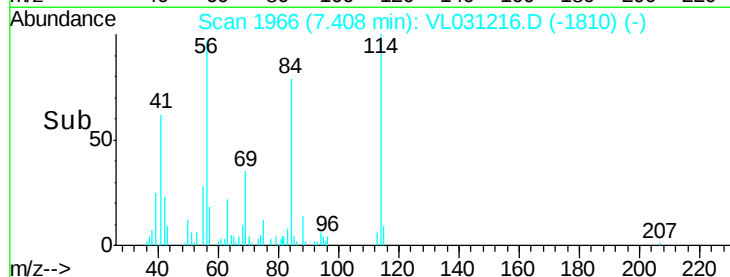
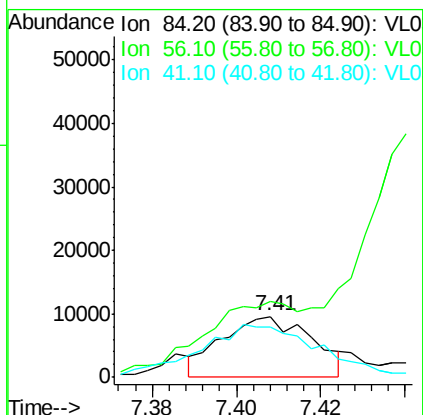
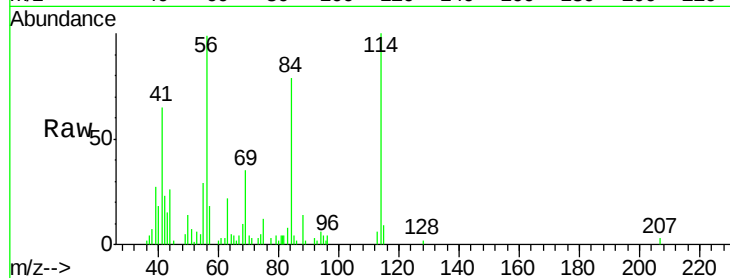




#30
Cyclohexane
Concen: 0.09 ppbv
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

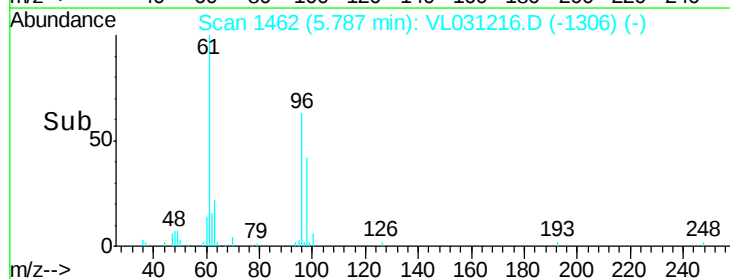
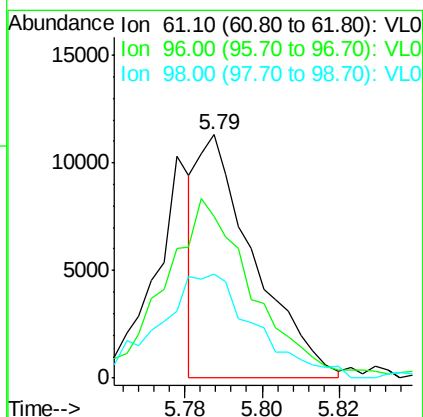
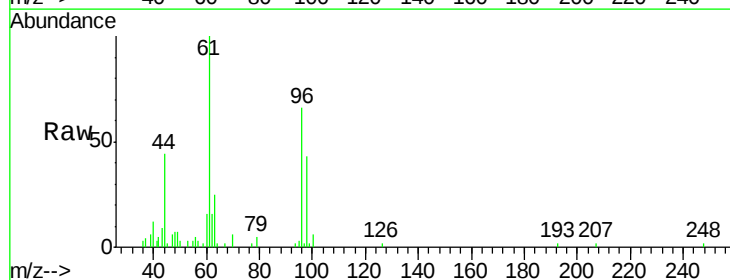
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

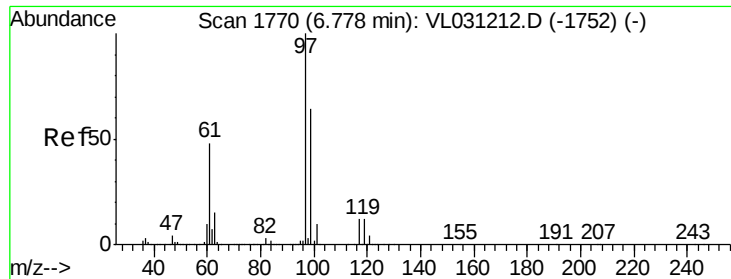
Tgt Ion: 84 Resp: 14143
Ion Ratio Lower Upper
84 100
56 0.0 108.0 162.0#
41 125.8 66.2 99.4#



#31
cis-1,2-Dichloroethene
Concen: 0.06 ppbv
RT: 5.79 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

Tgt Ion: 61 Resp: 11450
Ion Ratio Lower Upper
61 100
96 64.8 54.4 81.6
98 39.1 33.6 50.4





#32

1,1,1-Trichloroethane

Concen: 0.11 ppbv

RT: 6.77 min Scan# 1769

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

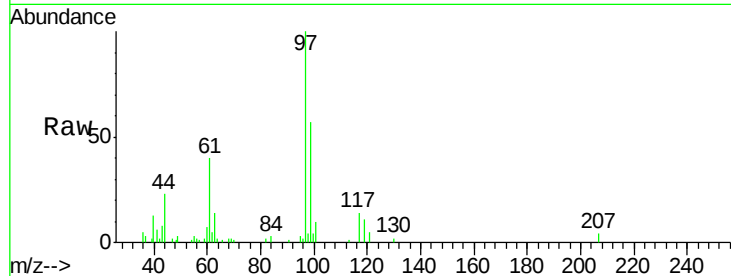
Tgt Ion: 97 Resp: 27440

Ion Ratio Lower Upper

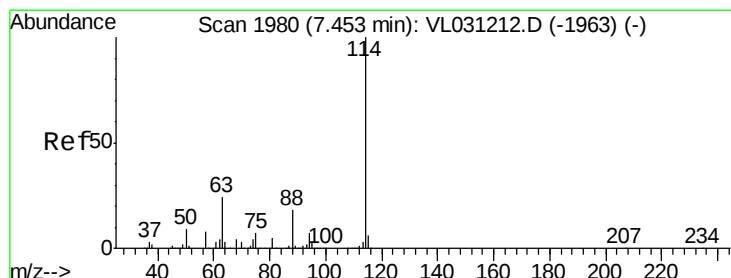
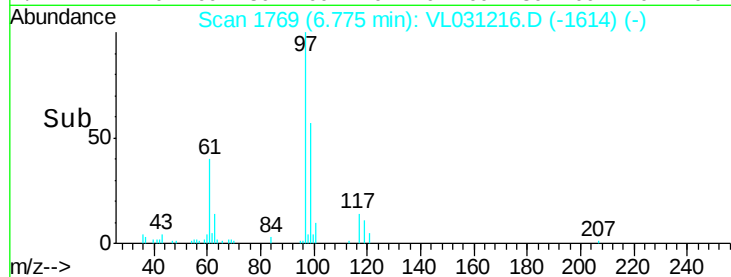
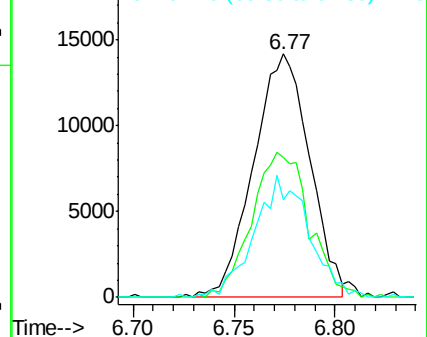
97 100

99 61.5 51.4 77.0

61 48.7 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.45 min Scan# 1978

Delta R.T. -0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

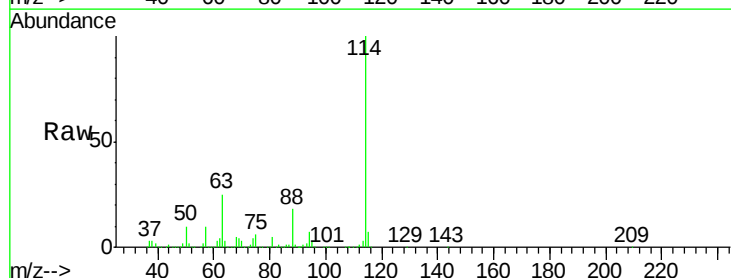
Tgt Ion: 114 Resp: 3973339

Ion Ratio Lower Upper

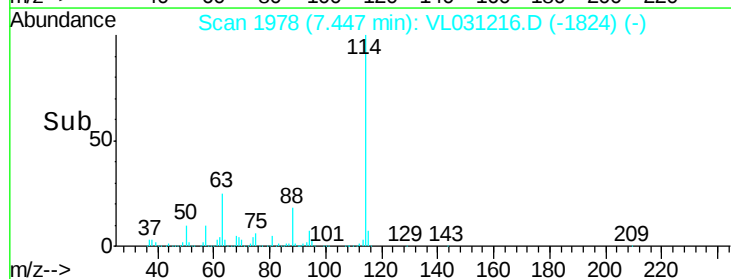
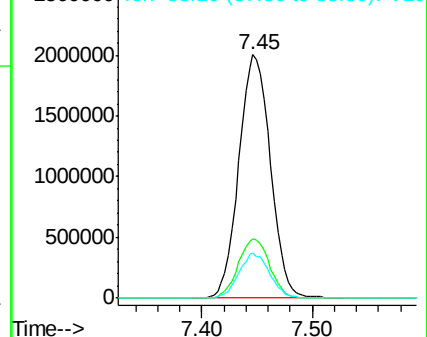
114 100

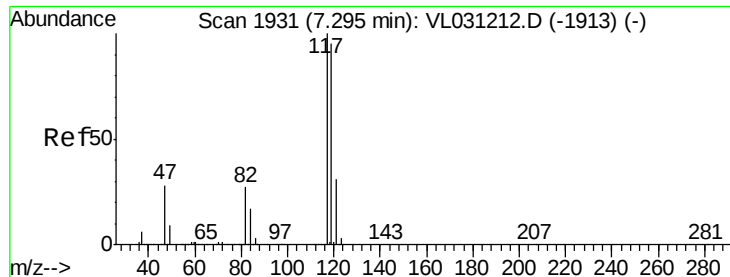
63 24.4 19.8 29.8

88 18.0 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.10 ppbv

RT: 7.29 min Scan# 1928

Delta R.T. -0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

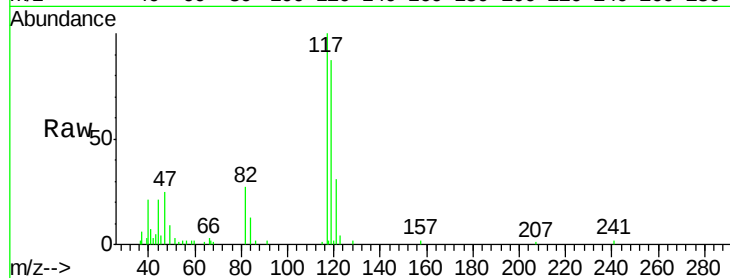
Tgt Ion:117 Resp: 26740

Ion Ratio Lower Upper

117 100

119 87.5 75.9 113.9

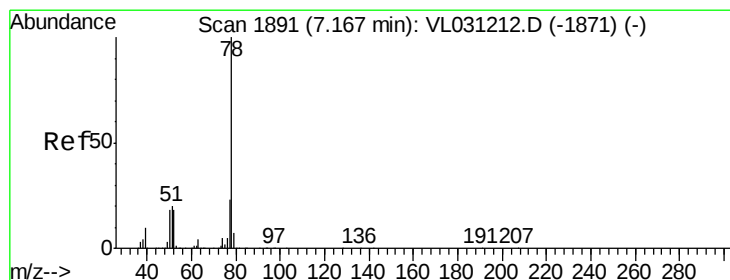
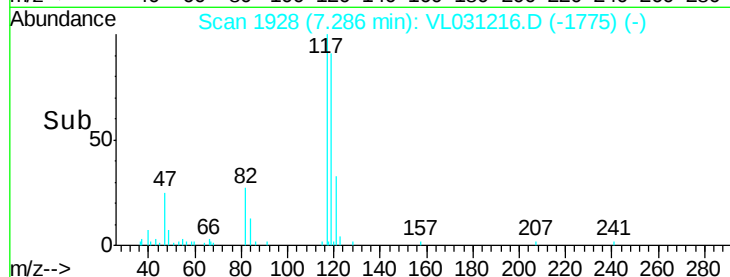
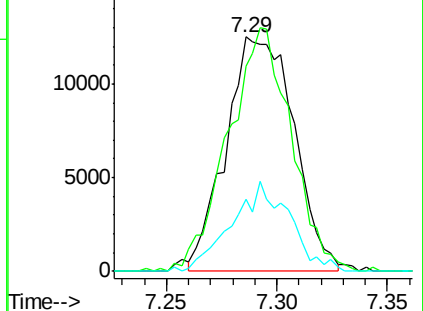
121 30.2 24.6 37.0



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: 0.10 ppbv

RT: 7.16 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

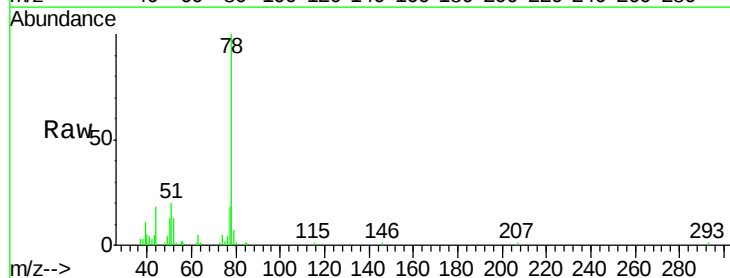
Tgt Ion: 78 Resp: 43946

Ion Ratio Lower Upper

78 100

77 18.5 18.1 27.1

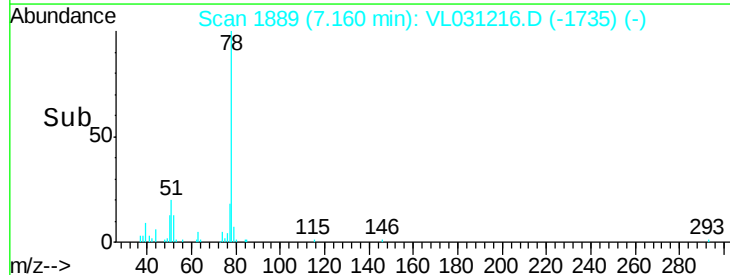
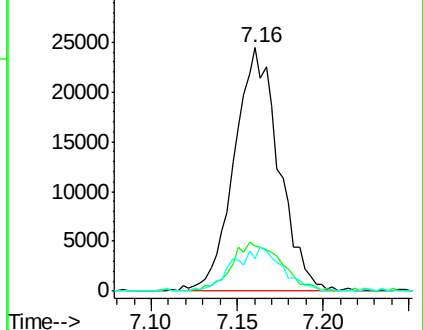
50 13.2 14.6 21.8#

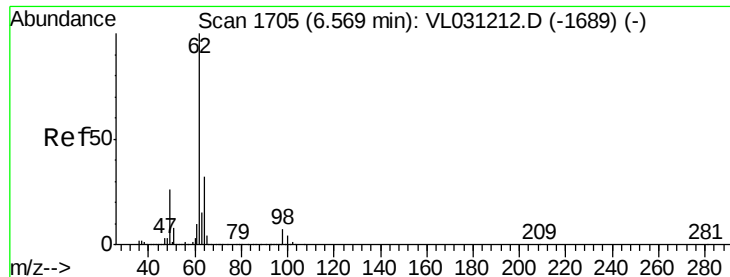


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

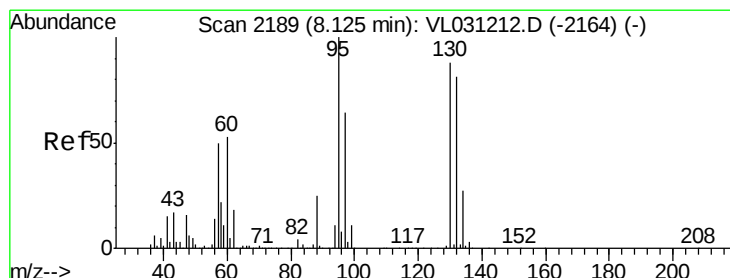
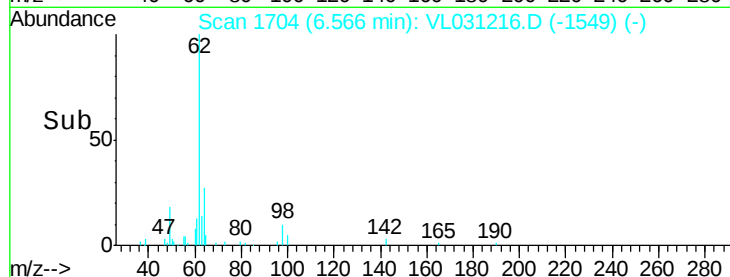
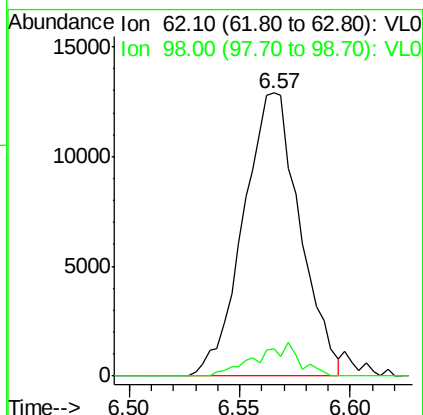
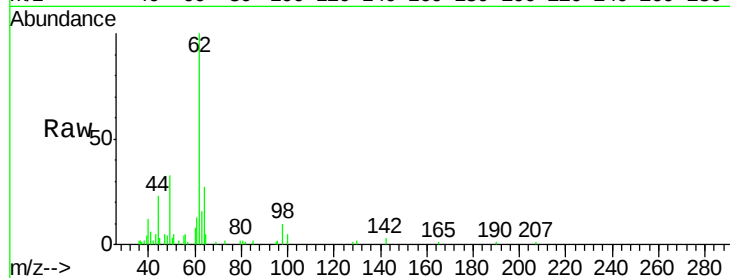




#37
1,2-Dichloroethane
Concen: 0.09 ppbv
RT: 6.57 min Scan# 1704
Delta R.T. -0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

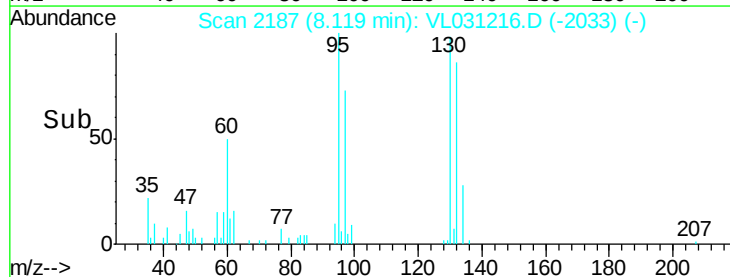
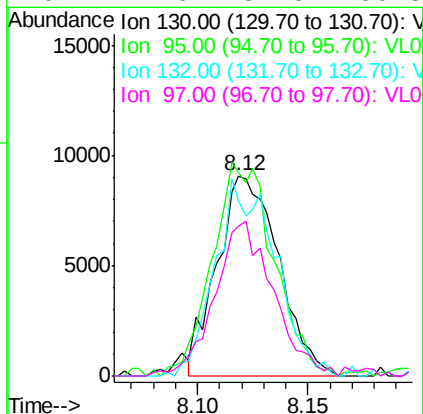
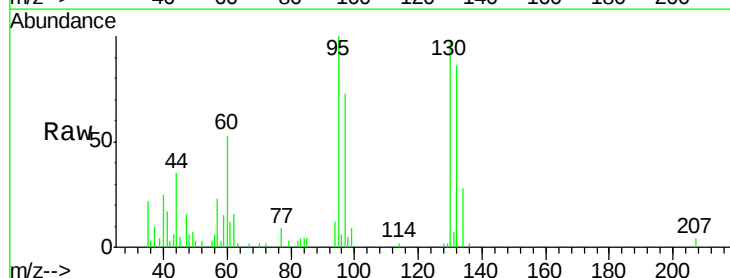
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

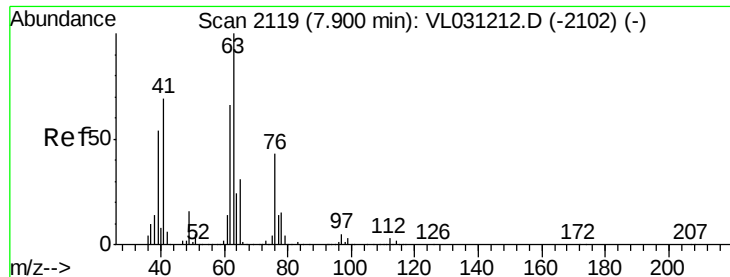
Tgt Ion: 62 Resp: 22891
Ion Ratio Lower Upper
62 100
98 9.1 5.4 8.2#



#38
Trichloroethene
Concen: 0.10 ppbv
RT: 8.12 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

Tgt Ion: 130 Resp: 17588
Ion Ratio Lower Upper
130 100
95 101.9 90.6 135.8
132 87.6 73.5 110.3
97 74.6 57.8 86.8





#39

1,2-Dichloropropane

Concen: 5.52 ppbv

RT: 7.45 min Scan# 1978

Delta R.T. -0.45 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

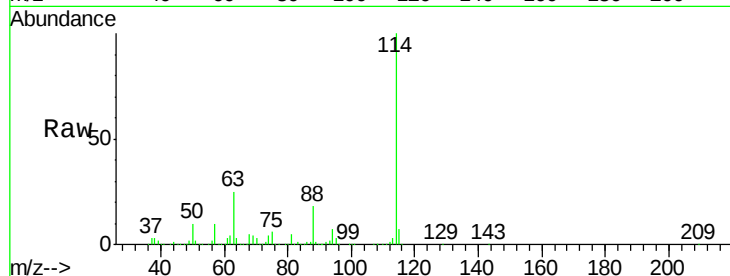
Tgt Ion: 63 Resp: 961323

Ion Ratio Lower Upper

63 100

41 0.0 55.2 82.8#

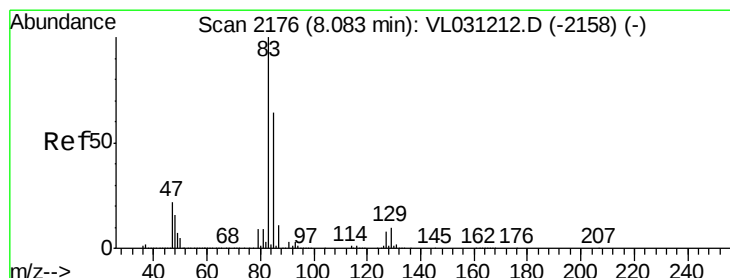
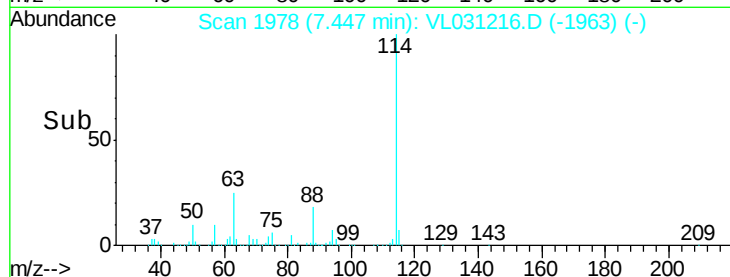
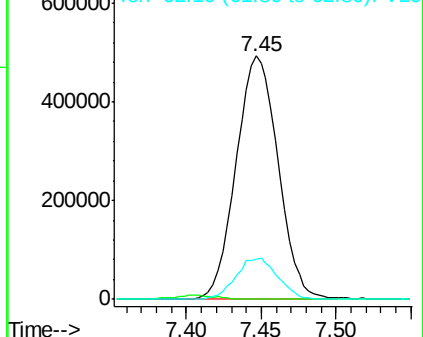
62 16.3 53.0 79.4#



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



#42

Bromodichloromethane

Concen: 0.06 ppbv

RT: 8.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

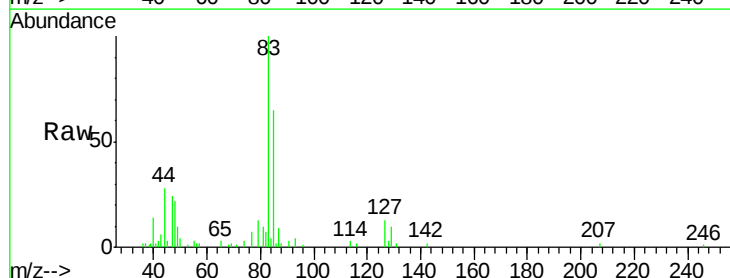
Tgt Ion: 83 Resp: 17833

Ion Ratio Lower Upper

83 100

85 64.8 51.5 77.3

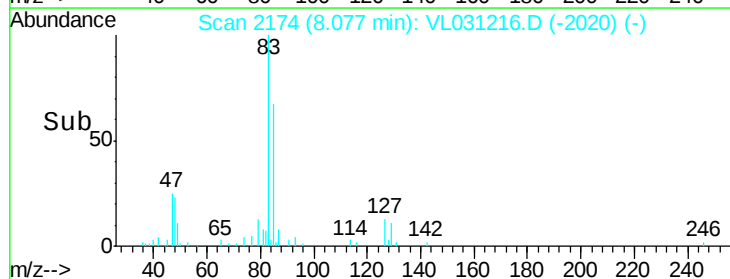
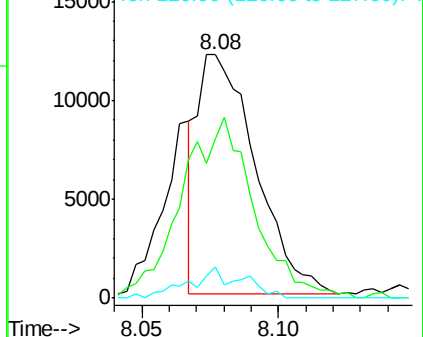
127 13.2 6.5 9.7#

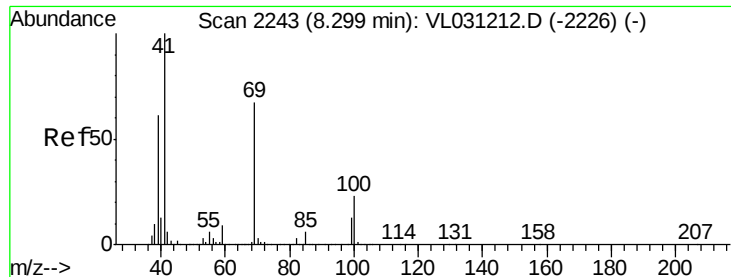


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

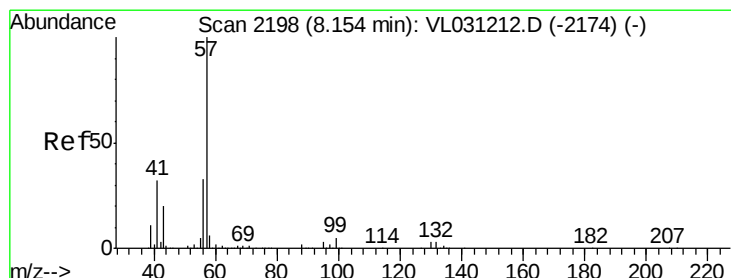
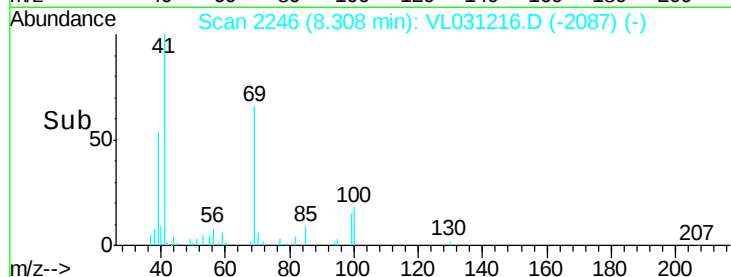
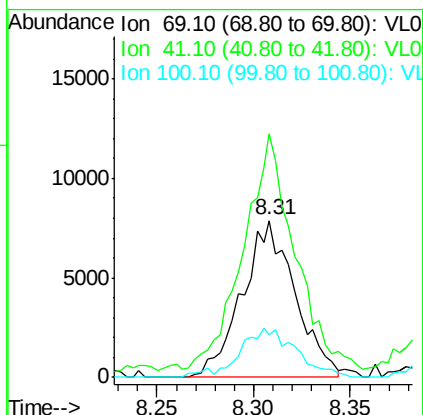
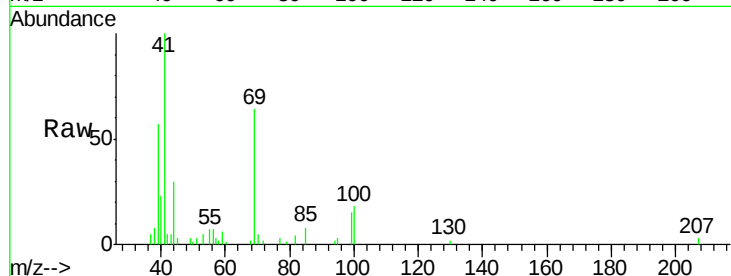




#43
Methyl Methacrylate
Concen: 0.09 ppbv
RT: 8.31 min Scan# 2246
Delta R.T. 0.01 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

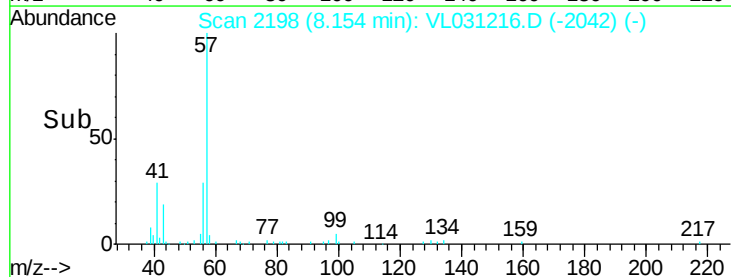
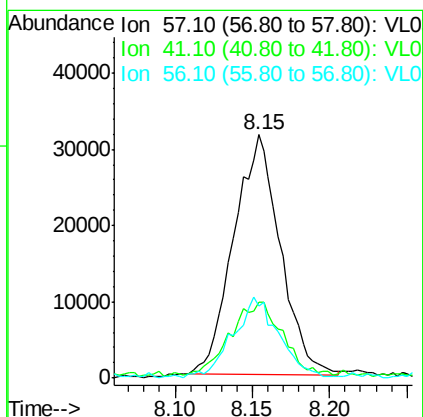
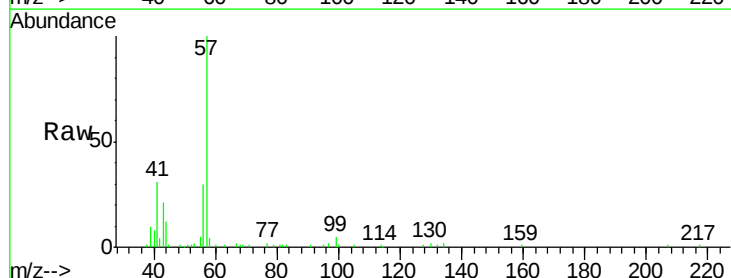
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

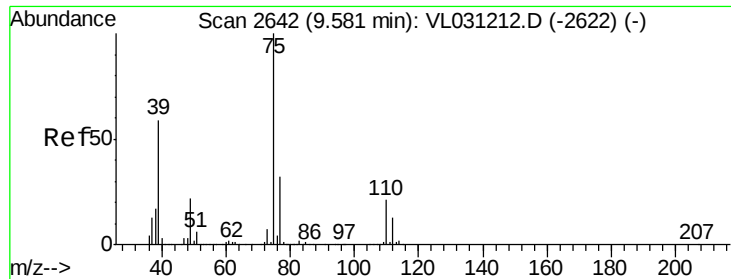
Tgt Ion: 69 Resp: 14989
Ion Ratio Lower Upper
69 100
41 144.1 121.1 181.7
100 33.4 27.4 41.2



#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv
RT: 8.15 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

Tgt Ion: 57 Resp: 65784
Ion Ratio Lower Upper
57 100
41 34.3 25.5 38.3
56 33.9 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 0.05 ppbv

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

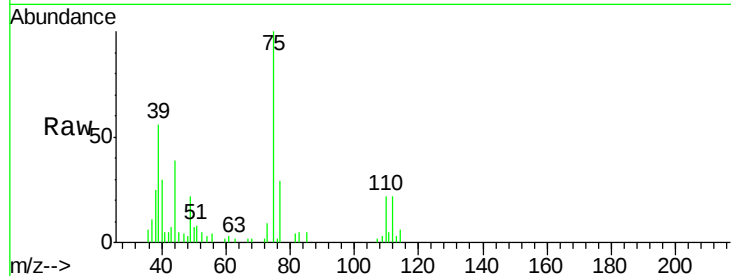
VSTDIC0.1

Tgt Ion: 75 Resp: 10167

Ion Ratio Lower Upper

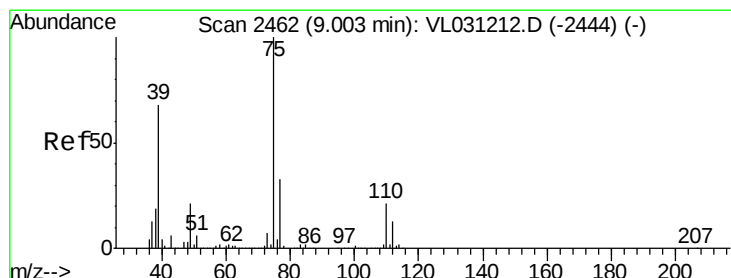
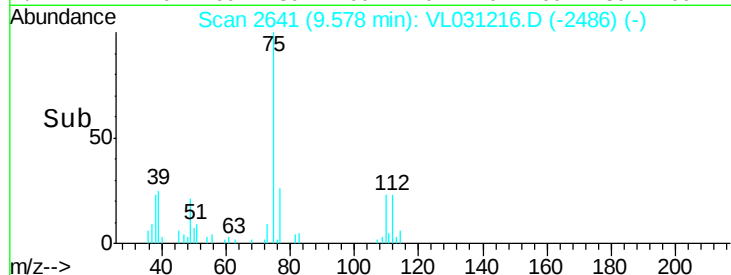
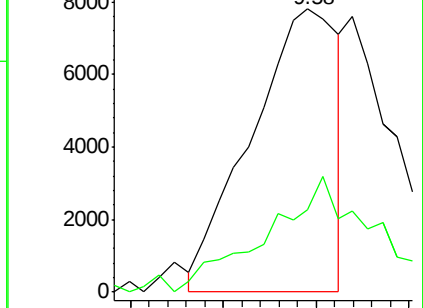
75 100

77 28.9 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.04 ppbv

RT: 9.01 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

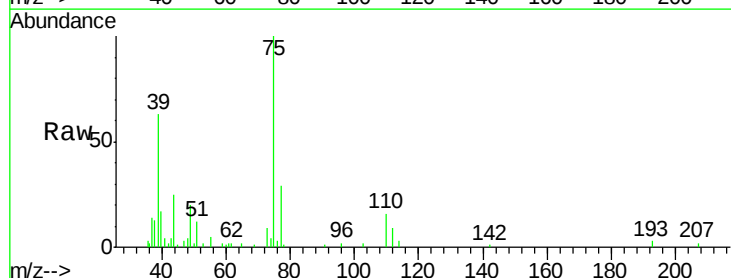
Tgt Ion: 75 Resp: 10929

Ion Ratio Lower Upper

75 100

39 58.4 54.2 81.4

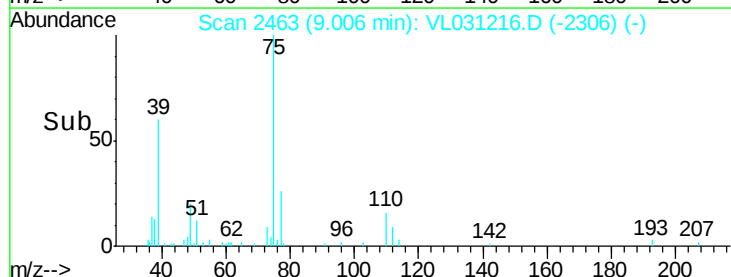
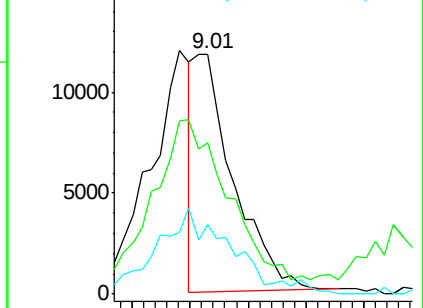
77 29.5 26.2 39.4

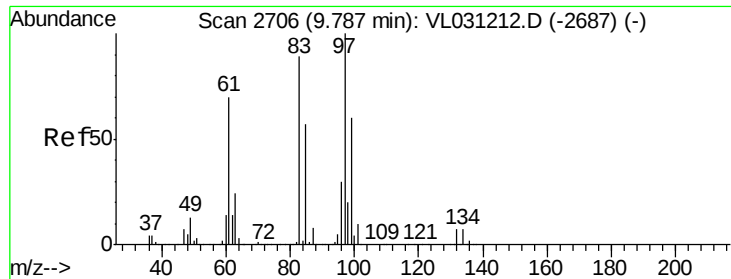


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

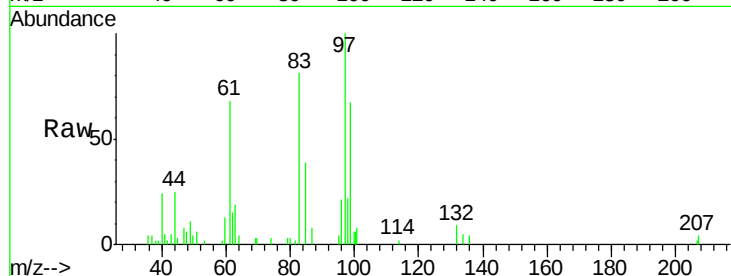




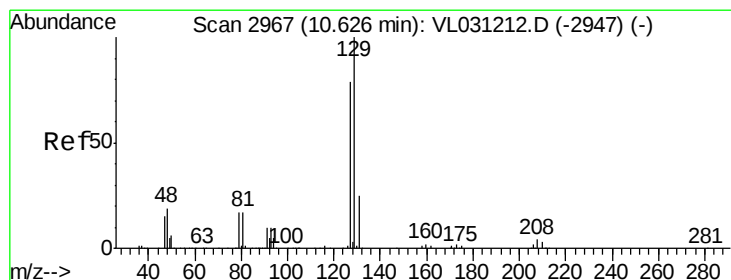
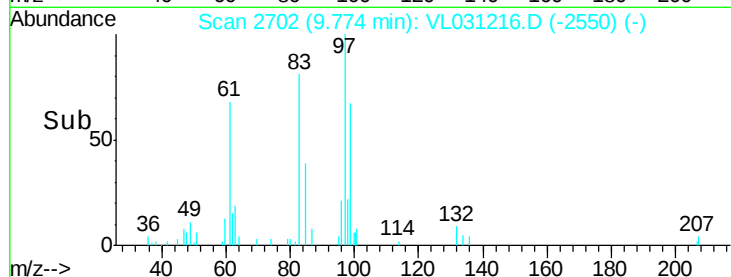
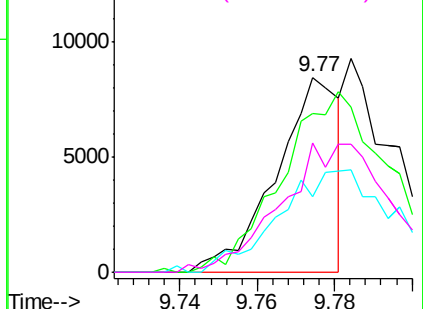
#47
 1,1,2-Trichloroethane
 Concen: 0.05 ppbv
 RT: 9.77 min Scan# 2702
 Delta R.T. -0.01 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 97 Resp: 9449
 Ion Ratio Lower Upper
 97 100
 83 81.3 71.0 106.4
 85 38.5 45.3 67.9#
 99 62.4 47.8 71.6

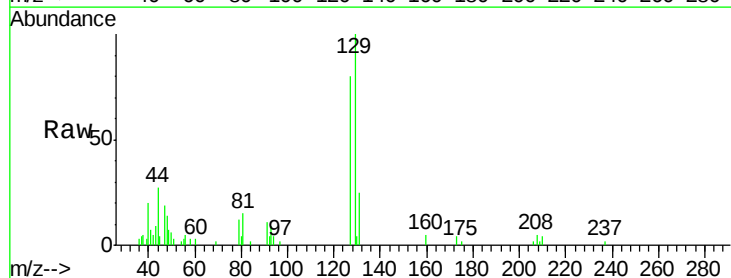


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

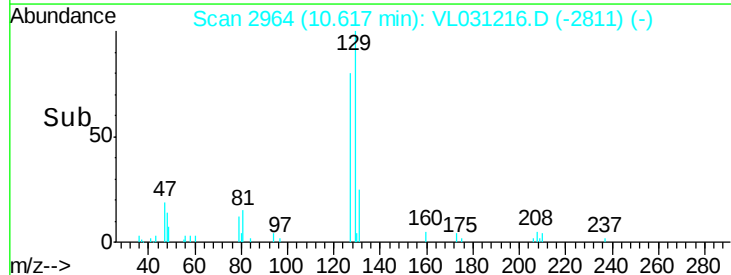
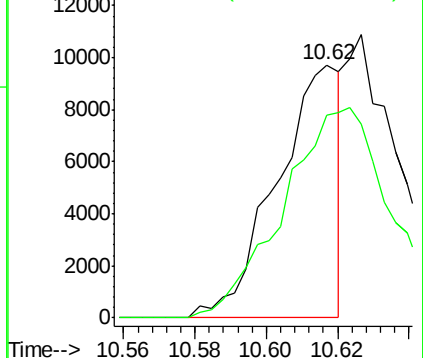


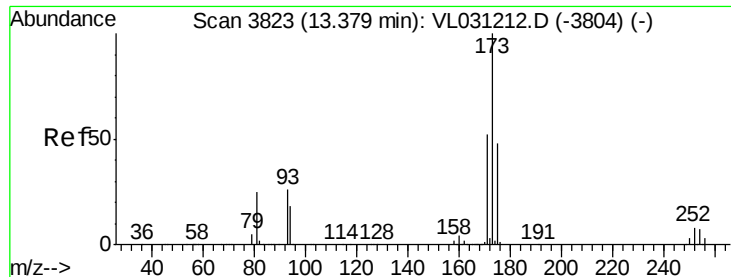
#48
 Dibromochloromethane
 Concen: 0.05 ppbv
 RT: 10.62 min Scan# 2964
 Delta R.T. -0.01 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion: 129 Resp: 11979
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.5#



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





#49

Bromoform

Concen: 0.07 ppbv

RT: 13.37 min Scan# 3821

Delta R.T. -0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

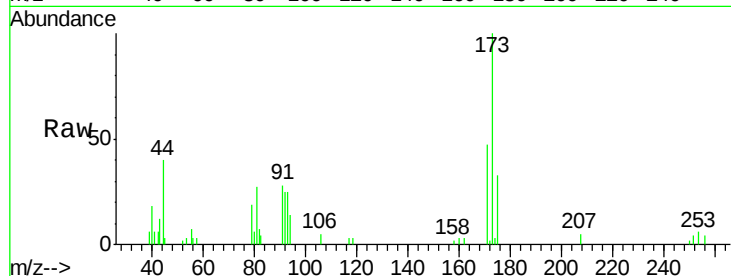
Tgt Ion:173 Resp: 14029

Ion Ratio Lower Upper

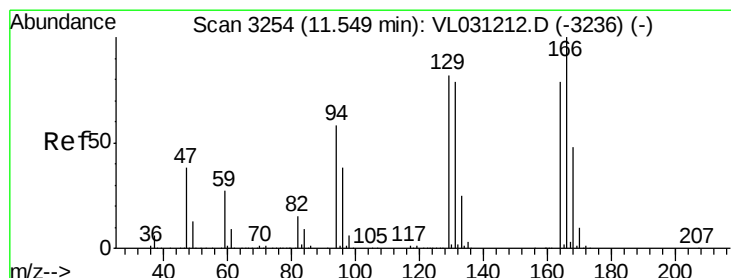
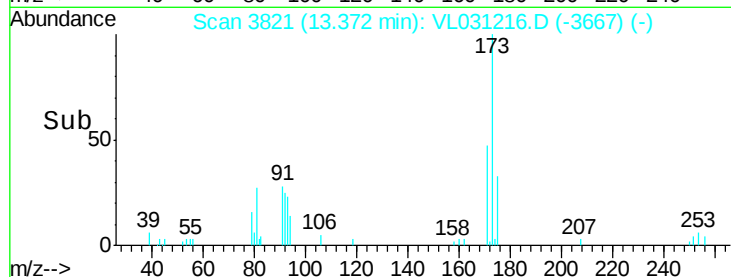
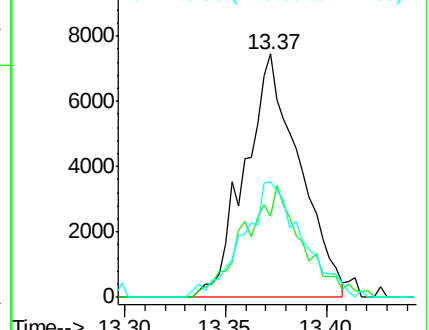
173 100

175 48.9 39.0 58.4

171 51.5 41.8 62.8



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#52

Tetrachloroethene

Concen: 0.10 ppbv

RT: 11.55 min Scan# 3253

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Tgt Ion:164 Resp: 16423

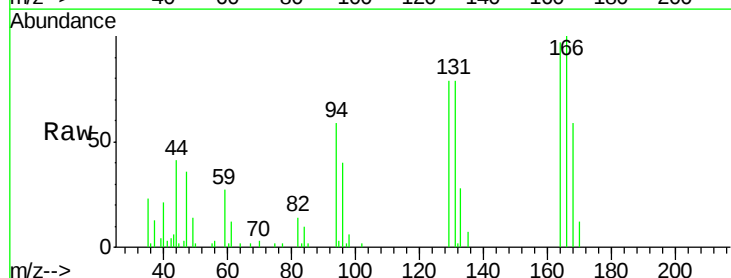
Ion Ratio Lower Upper

164 100

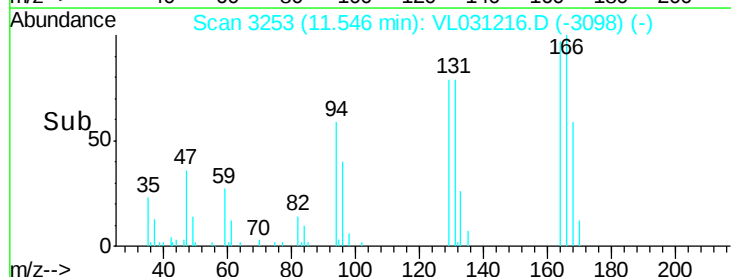
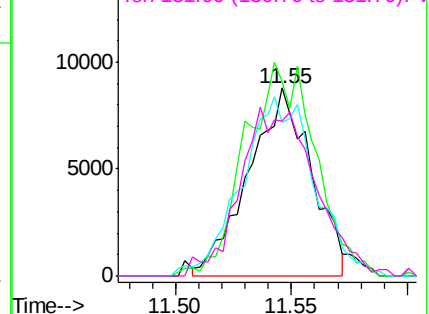
166 103.7 100.6 151.0

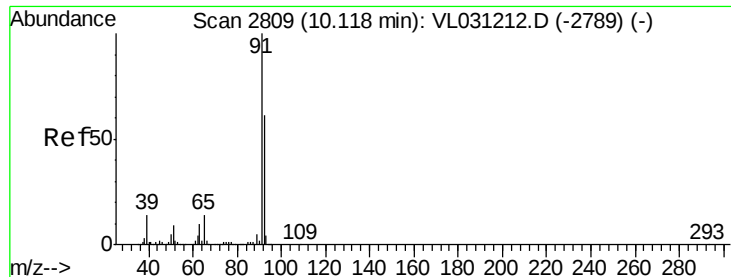
129 80.7 82.9 124.3#

131 75.0 79.2 118.8#



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.09 ppbv

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

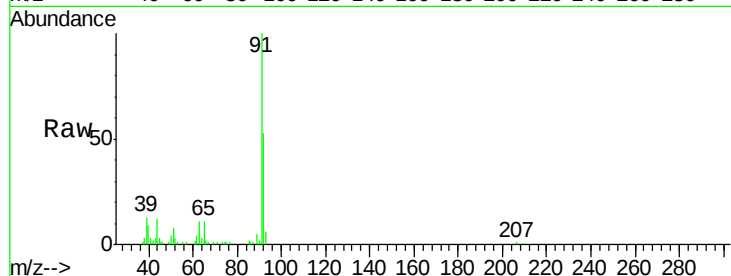
VSTDIC0.1

Tgt Ion: 91 Resp: 48868

Ion Ratio Lower Upper

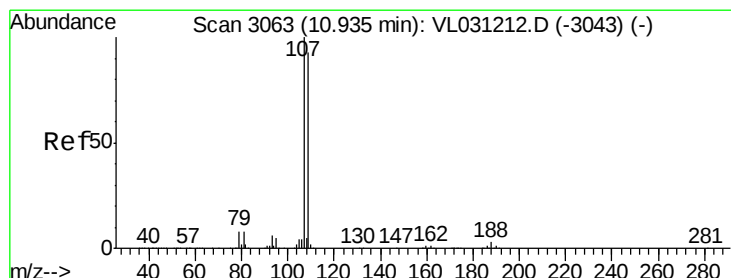
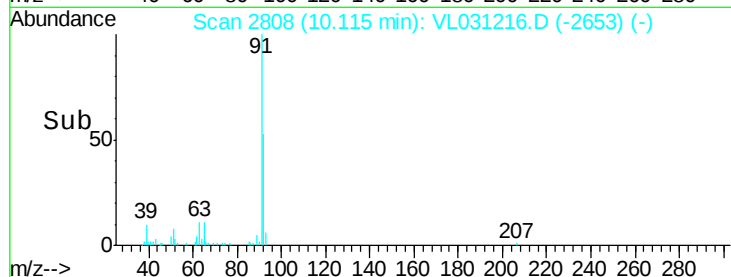
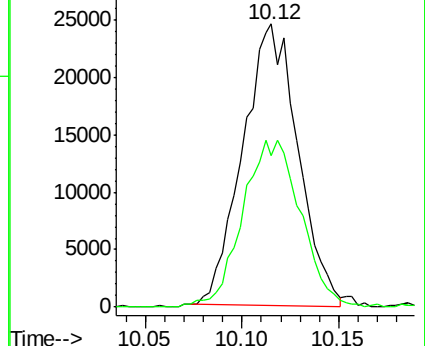
91 100

92 62.5 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.04 ppbv

RT: 10.93 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VL031216.D

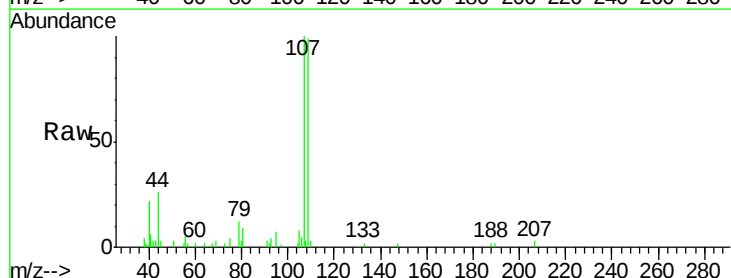
Acq: 14 Dec 2017 00:57

Tgt Ion: 107 Resp: 10814

Ion Ratio Lower Upper

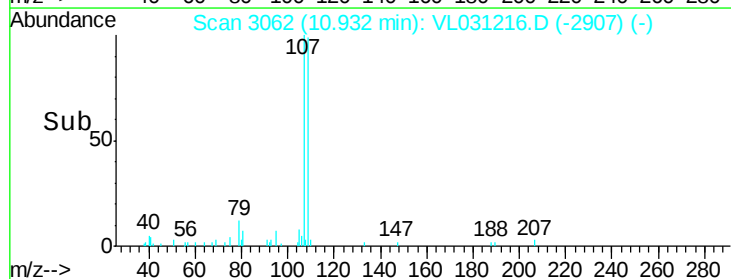
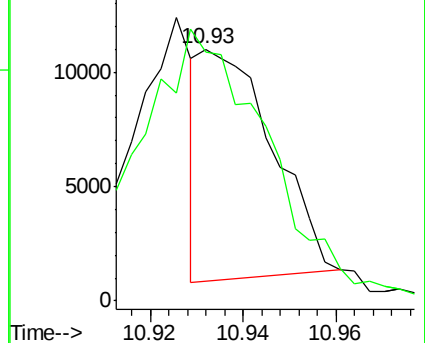
107 100

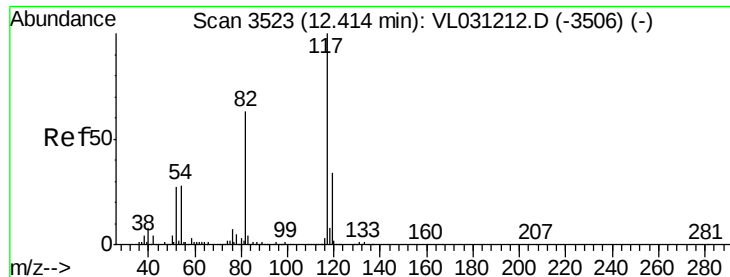
109 98.1 74.7 112.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3522

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

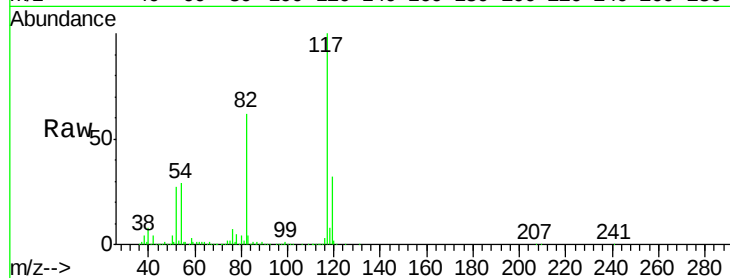
Tgt Ion:117 Resp: 3895974

Ion Ratio Lower Upper

117 100

82 63.1 48.1 72.1

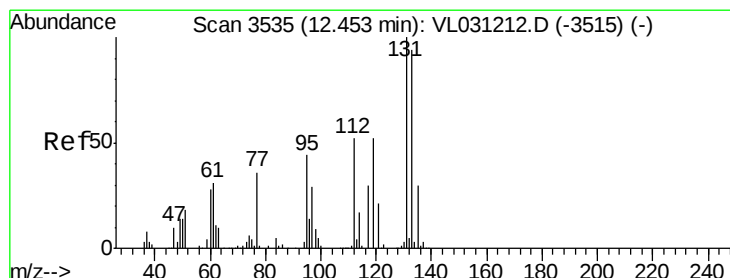
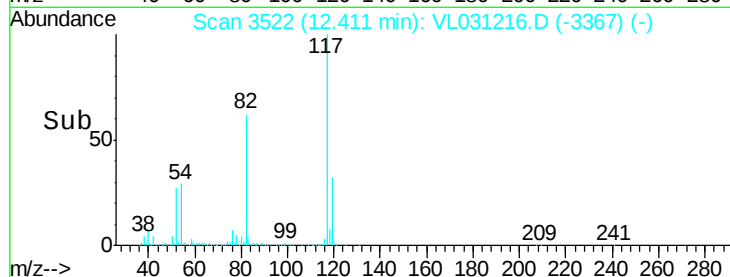
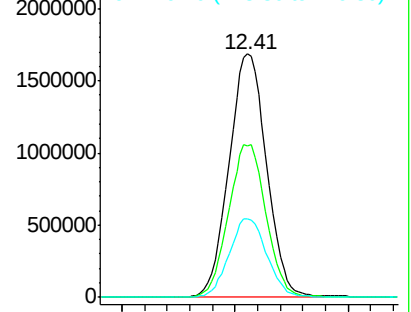
119 32.8 23.1 34.7



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.08 ppbv

RT: 12.45 min Scan# 3534

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

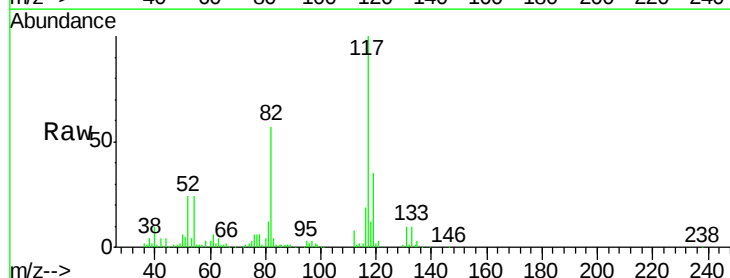
Tgt Ion:131 Resp: 13296

Ion Ratio Lower Upper

131 100

133 129.7 76.1 114.1#

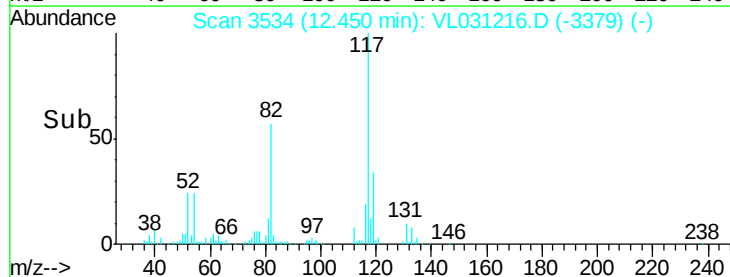
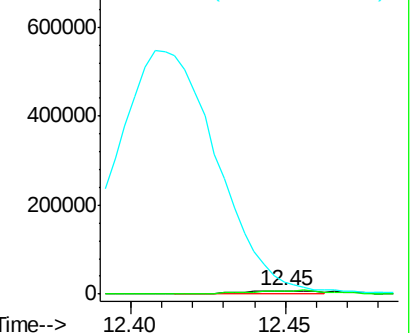
119 0.0 108.5 162.7#

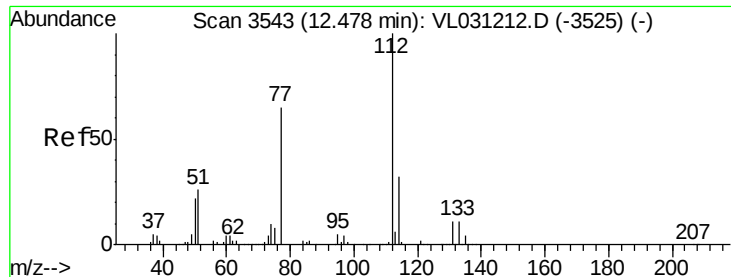


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

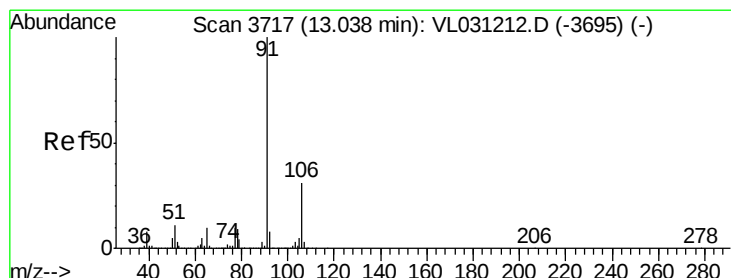
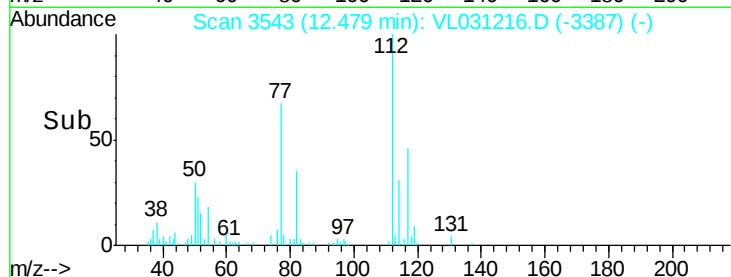
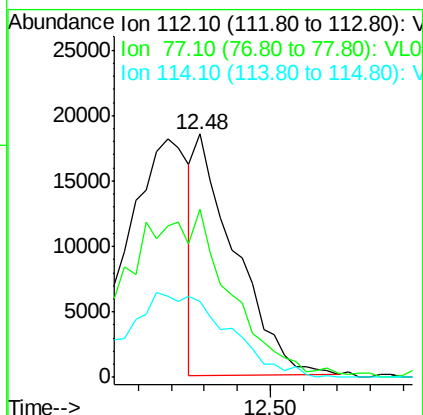
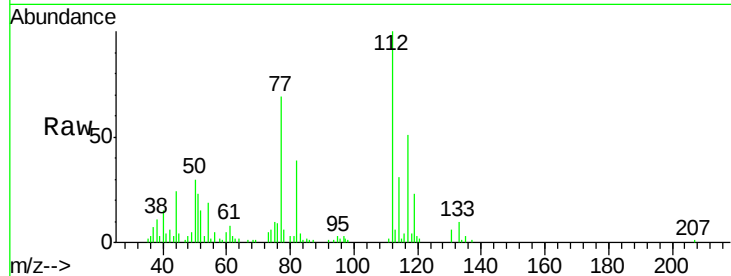




#57
Chlorobenzene
Concen: 0.04 ppbv
RT: 12.48 min Scan# 3543
Delta R.T. 0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

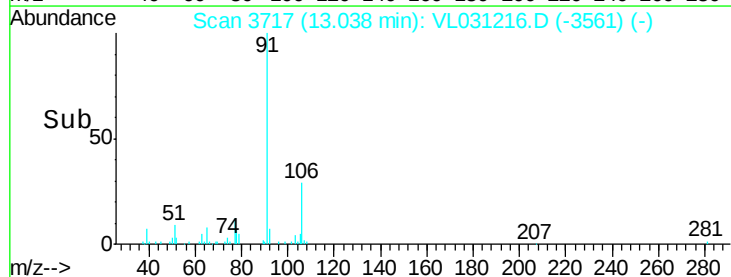
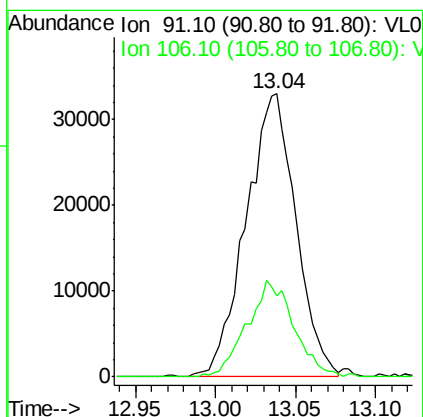
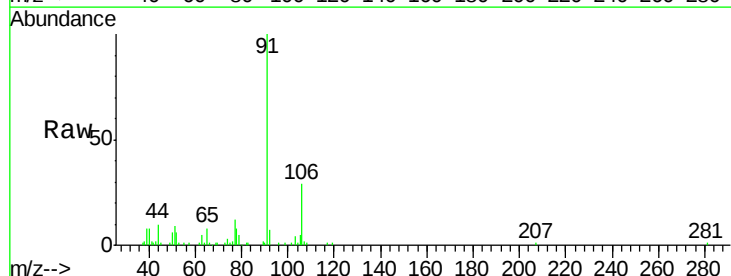
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

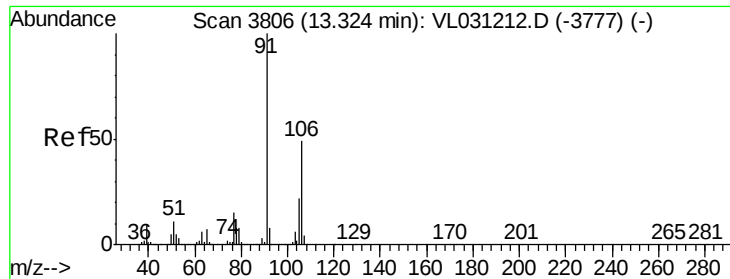
Tgt Ion: 112 Resp: 15625
Ion Ratio Lower Upper
112 100
77 67.7 52.9 79.3
114 33.3 29.1 35.5



#58
Ethyl Benzene
Concen: 0.11 ppbv
RT: 13.04 min Scan# 3717
Delta R.T. 0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

Tgt Ion: 91 Resp: 70972
Ion Ratio Lower Upper
91 100
106 28.8 25.1 37.7

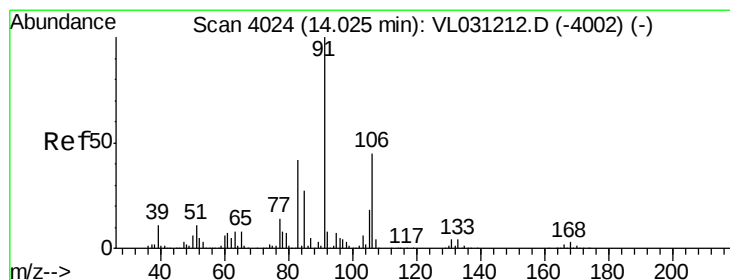
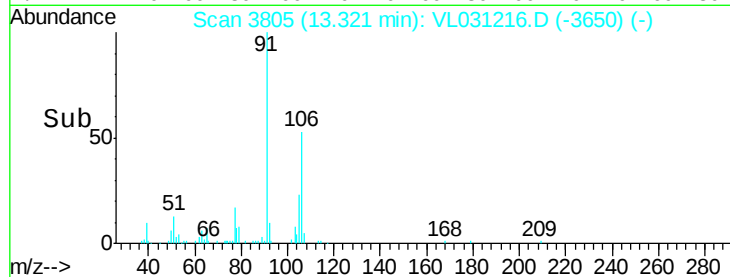
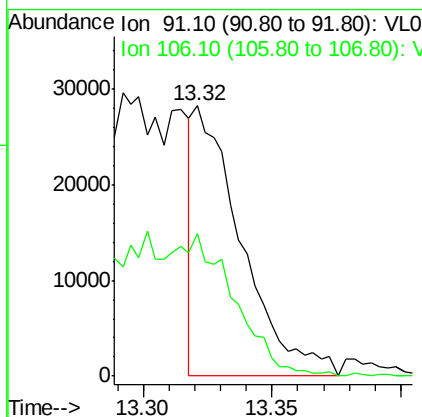
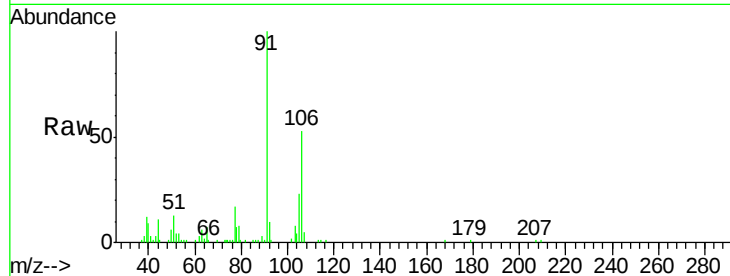




#59
m/p-Xylene
Concen: 0.06 ppbv
RT: 13.32 min Scan# 3805
Delta R.T. -0.00 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

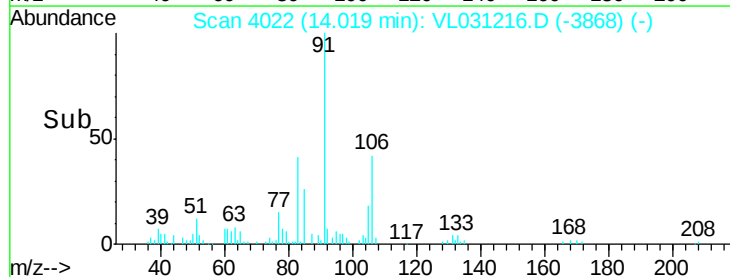
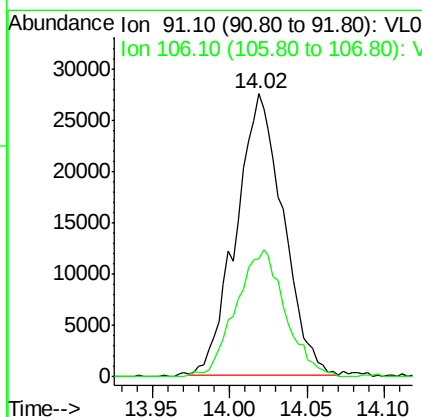
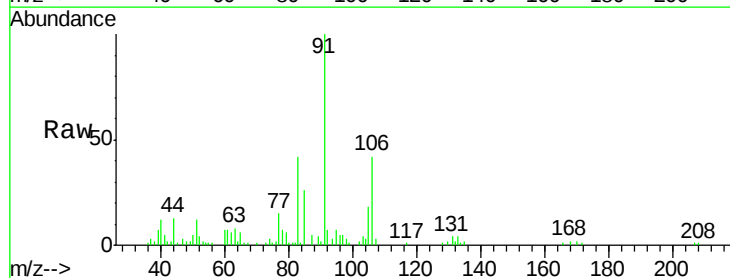
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

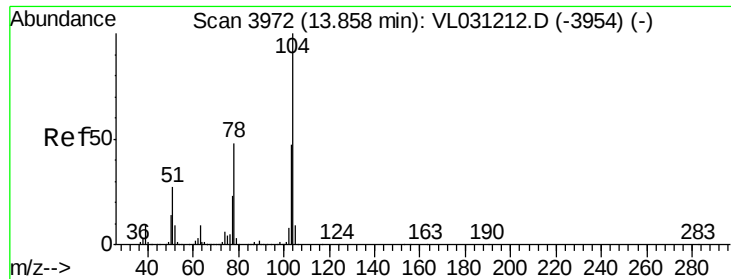
Tgt Ion: 91 Resp: 36095
Ion Ratio Lower Upper
91 100
106 0.0 38.5 57.7#



#60
o-Xylene
Concen: 0.10 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031216.D
Acq: 14 Dec 2017 00:57

Tgt Ion: 91 Resp: 58061
Ion Ratio Lower Upper
91 100
106 47.6 22.7 68.1





#61

Styrene

Concen: 0.08 ppbv

RT: 13.86 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

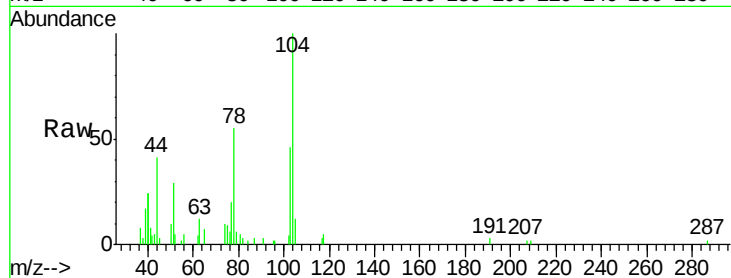
Tgt Ion:104 Resp: 10783

Ion Ratio Lower Upper

104 100

78 84.1 39.1 58.7#

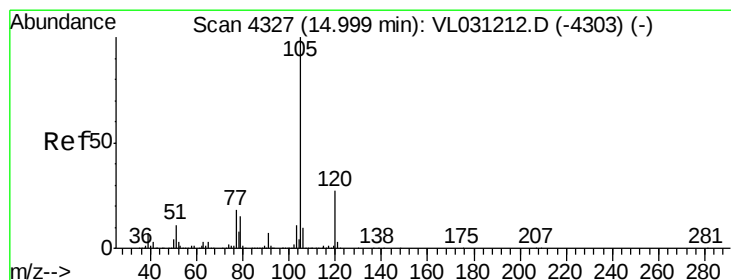
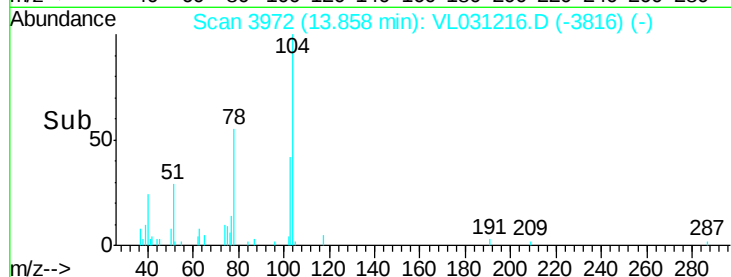
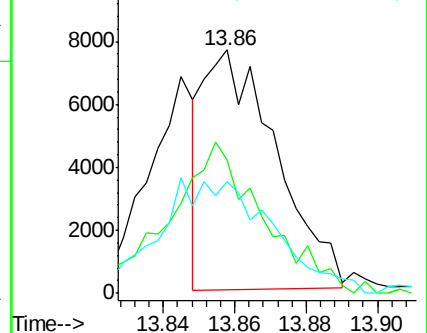
103 0.0 37.3 55.9#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.11 ppbv

RT: 15.00 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL031216.D

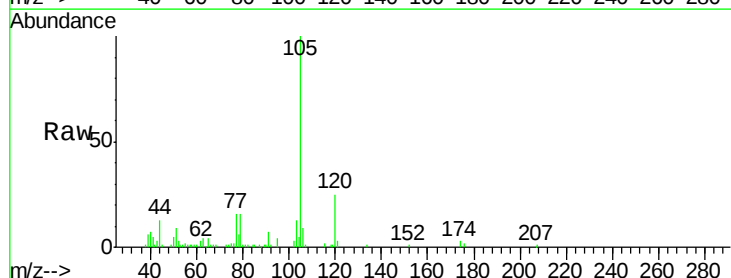
Acq: 14 Dec 2017 00:57

Tgt Ion:105 Resp: 74564

Ion Ratio Lower Upper

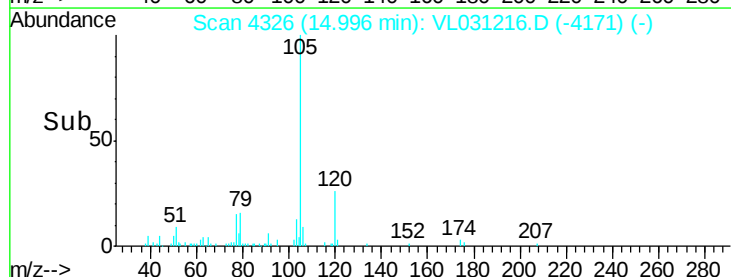
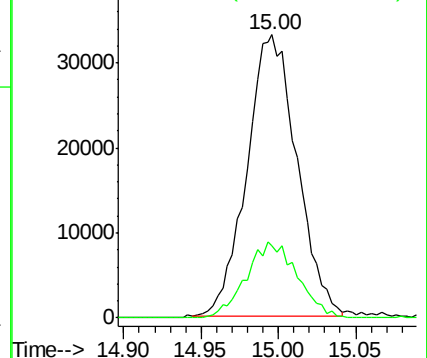
105 100

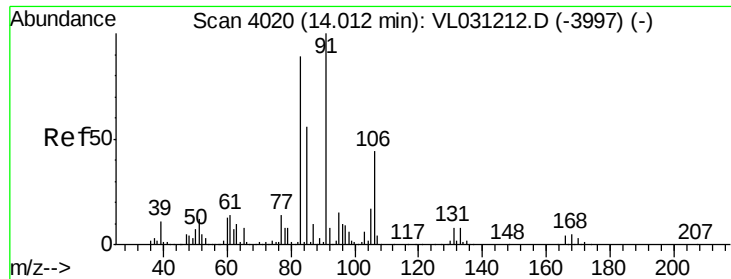
120 27.5 21.0 31.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

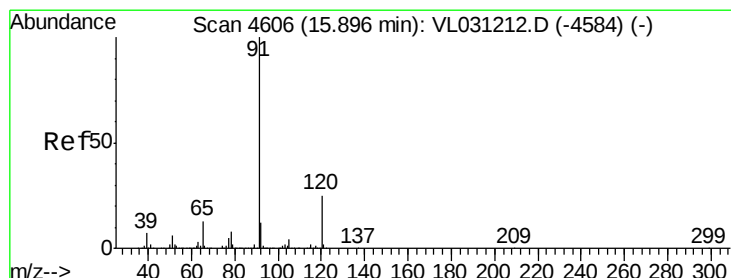
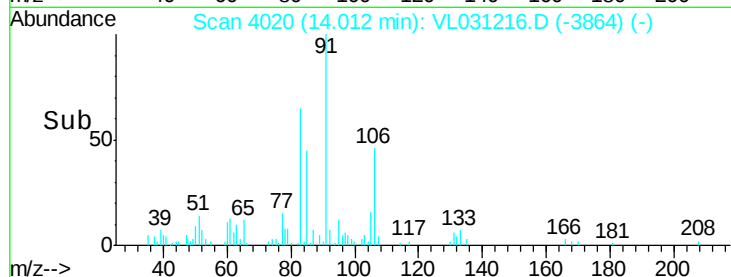
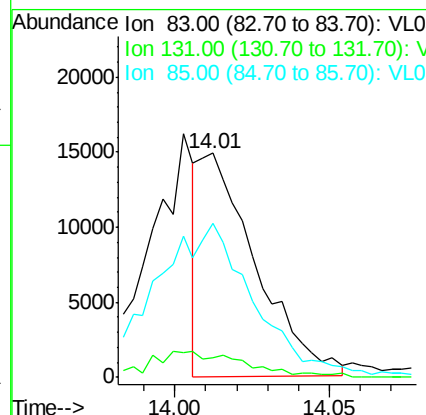
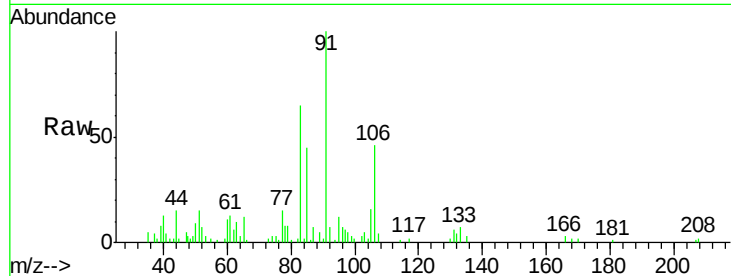




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.04 ppbv
 RT: 14.01 min Scan# 4020
 Delta R.T. 0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

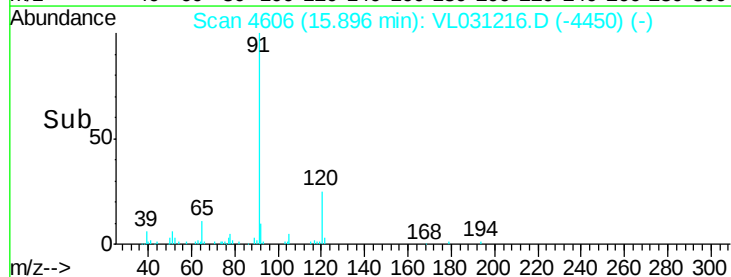
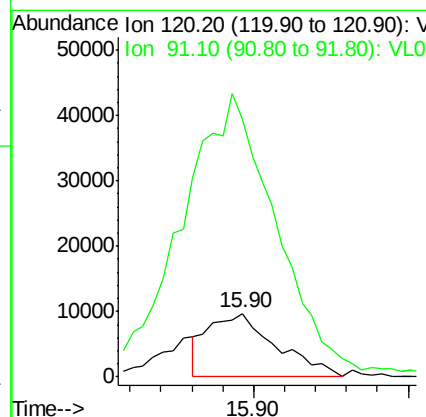
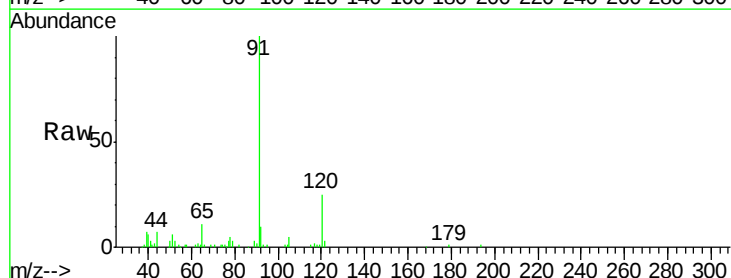
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

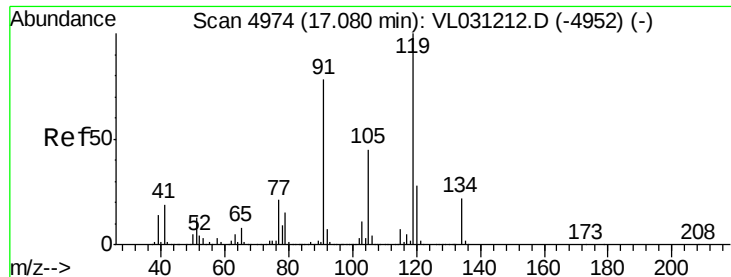
Tgt Ion: 83 Resp: 18843
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.8 14.3#
 85 125.3 32.1 96.5#



#64
 n-propylbenzene
 Concen: 0.08 ppbv
 RT: 15.90 min Scan# 4606
 Delta R.T. 0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion: 120 Resp: 14718
 Ion Ratio Lower Upper
 120 100
 91 654.6 352.1 528.1#

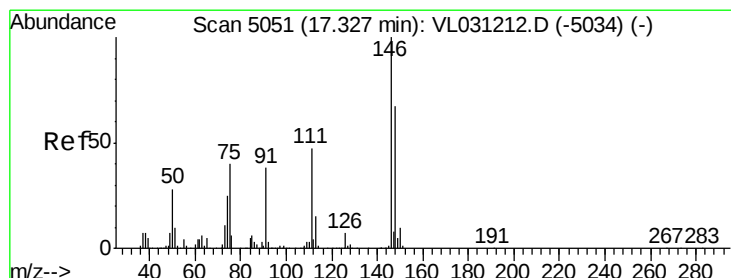
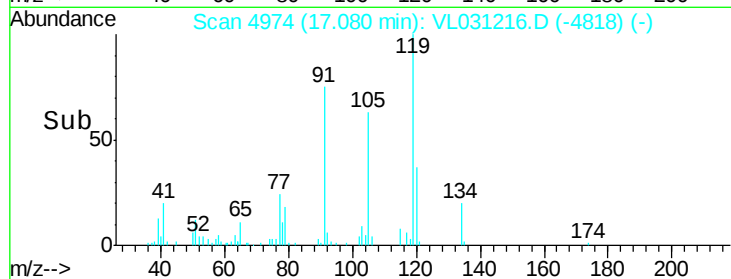
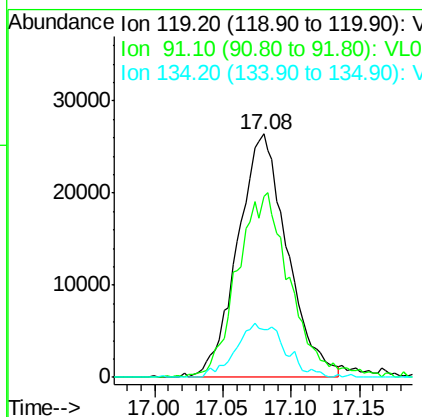
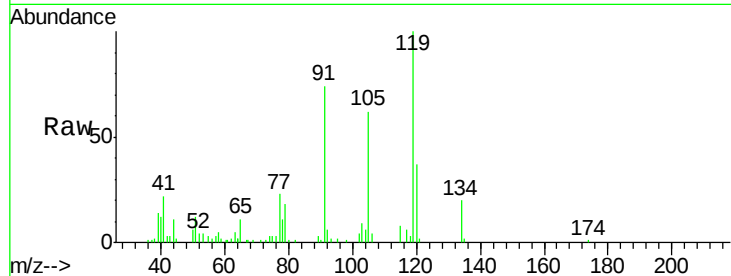




#65
 tert-Butylbenzene
 Concen: 0.11 ppbv
 RT: 17.08 min Scan# 4974
 Delta R.T. 0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

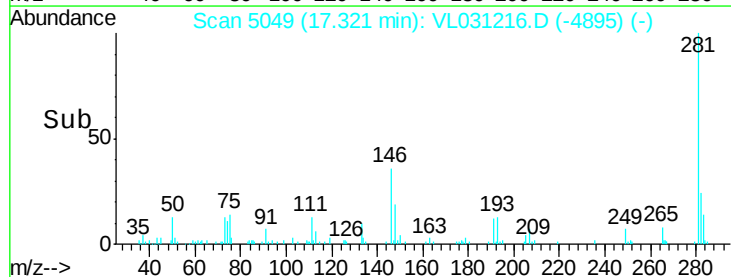
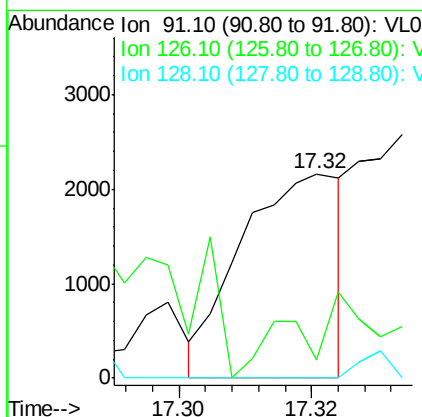
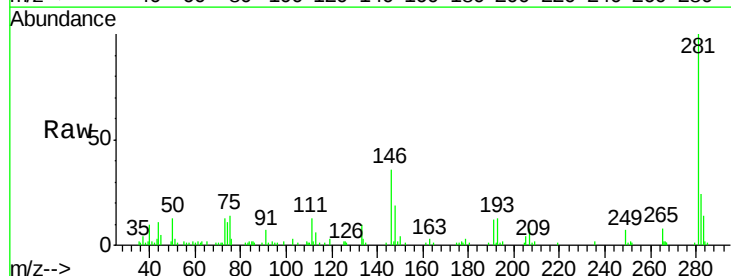
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

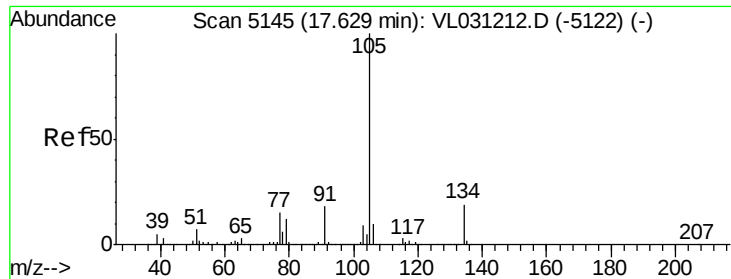
Tgt Ion: 119 Resp: 66694
 Ion Ratio Lower Upper
 119 100
 91 82.0 63.3 94.9
 134 22.1 16.1 24.1



#66
 Benzyl Chloride
 Concen: 0.05 ppbv
 RT: 17.32 min Scan# 5049
 Delta R.T. -0.01 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion: 91 Resp: 2285
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.2 22.8#
 128 0.0 4.9 7.3#

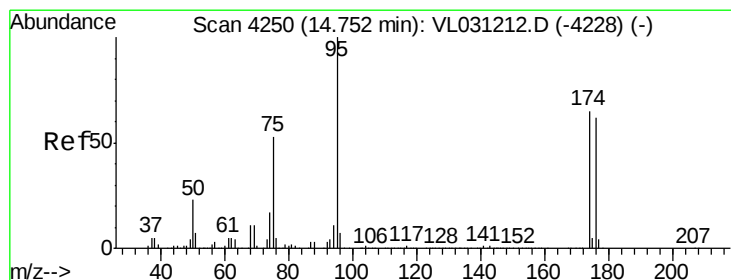
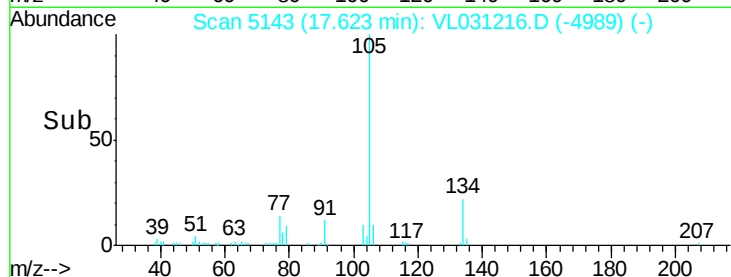
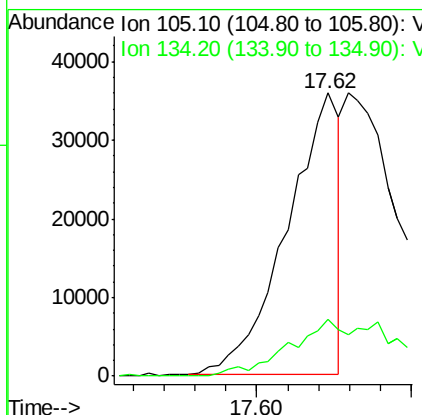
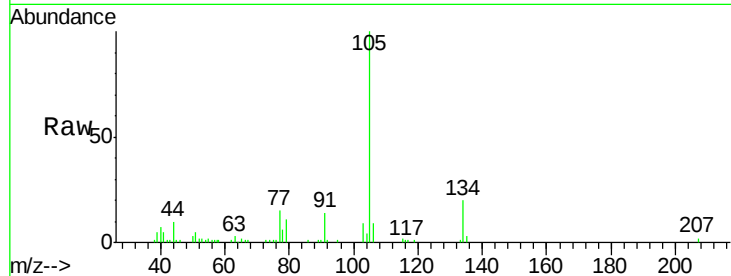




#67
 sec-Butylbenzene
 Concen: 0.05 ppbv
 RT: 17.62 min Scan# 5143
 Delta R.T. -0.01 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

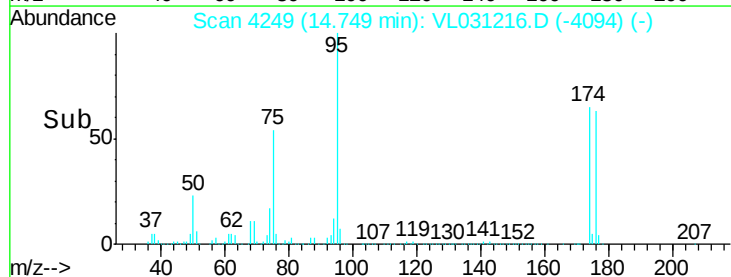
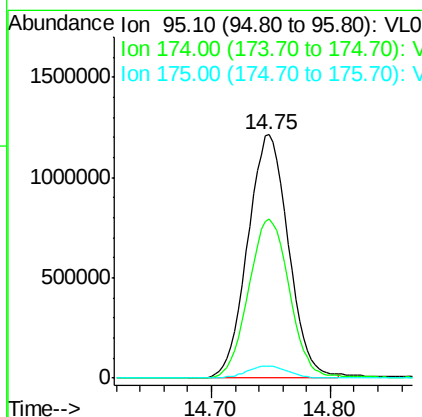
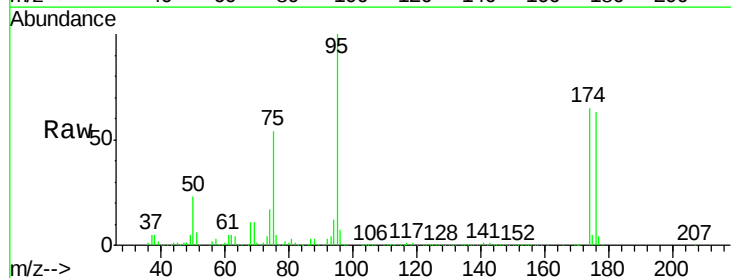
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

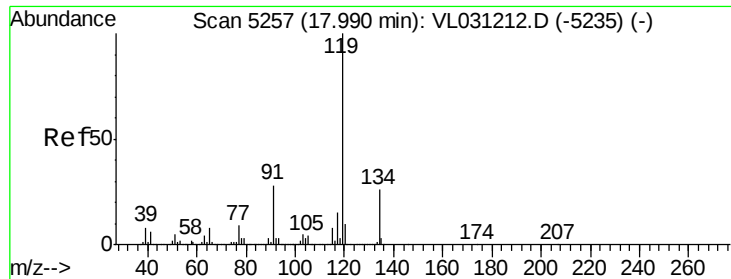
Tgt Ion:105 Resp: 41920
 Ion Ratio Lower Upper
 105 100
 134 41.3 15.3 22.9#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.55 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion: 95 Resp: 2876781
 Ion Ratio Lower Upper
 95 100
 174 66.7 52.5 78.7
 175 5.1 4.1 6.1

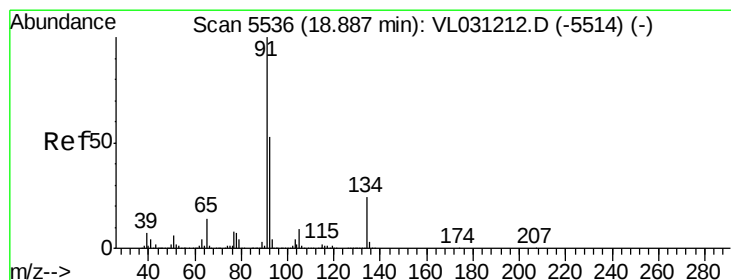
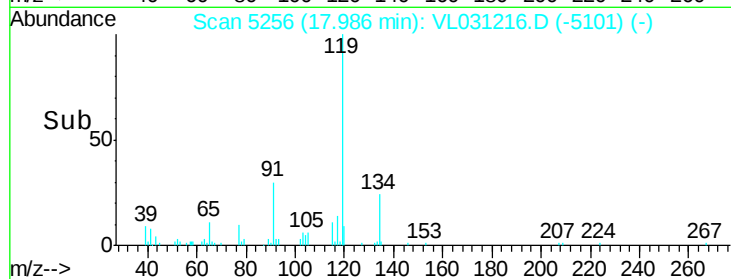
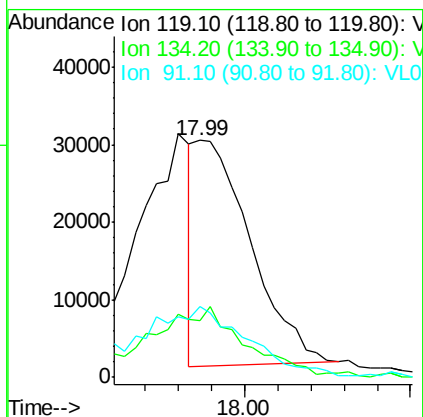
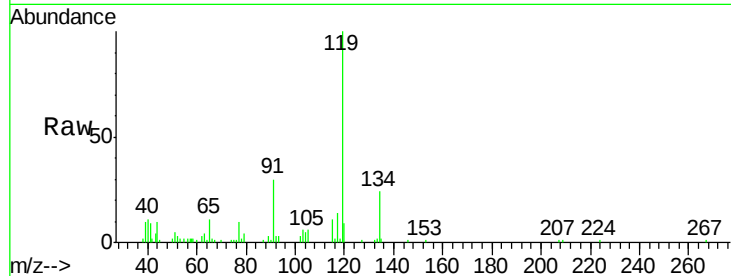




#69
 p-Isopropyltoluene
 Concen: 0.05 ppbv
 RT: 17.99 min Scan# 5256
 Delta R.T. -0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

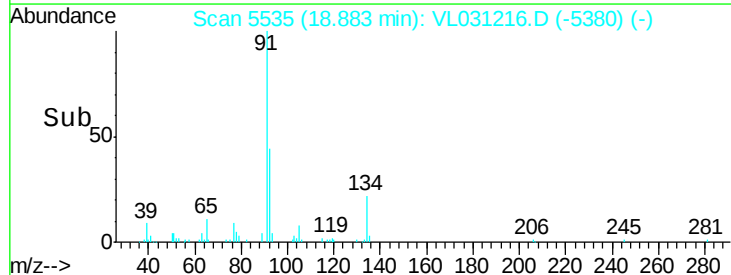
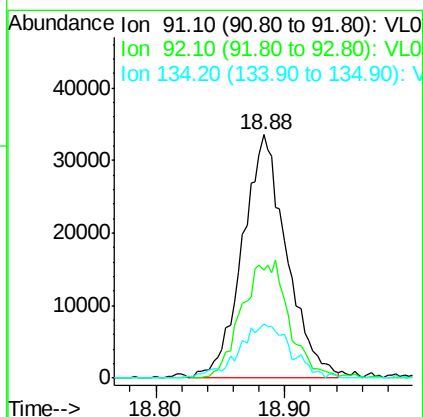
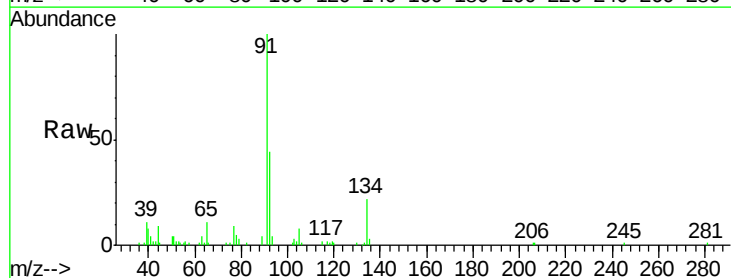
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

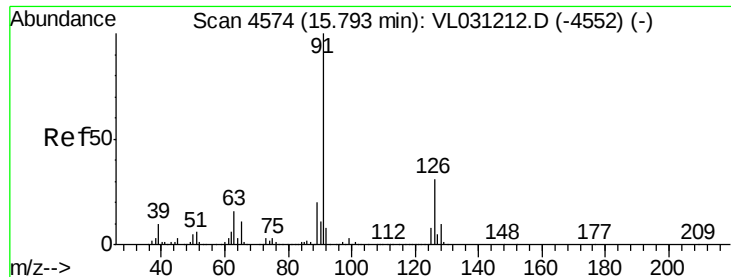
Tgt Ion: 119 Resp: 33601
 Ion Ratio Lower Upper
 119 100
 134 57.5 20.7 31.1#
 91 67.4 22.3 33.5#



#70
 n-Butylbenzene
 Concen: 0.11 ppbv
 RT: 18.88 min Scan# 5535
 Delta R.T. -0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion: 91 Resp: 80020
 Ion Ratio Lower Upper
 91 100
 92 51.7 43.4 65.2
 134 26.0 19.3 28.9





#71

2-Chlorotoluene

Concen: 0.10 ppbv

RT: 15.78 min Scan# 4571

Delta R.T. -0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

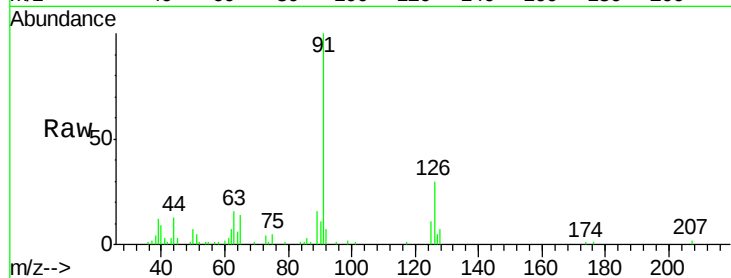
VSTDIC0.1

Tgt Ion: 91 Resp: 54015

Ion Ratio Lower Upper

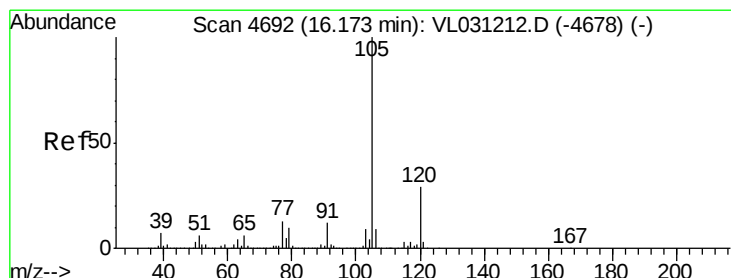
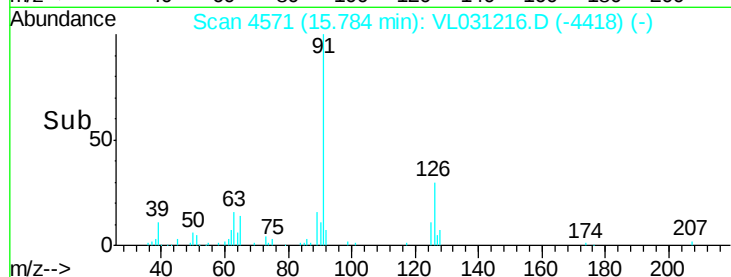
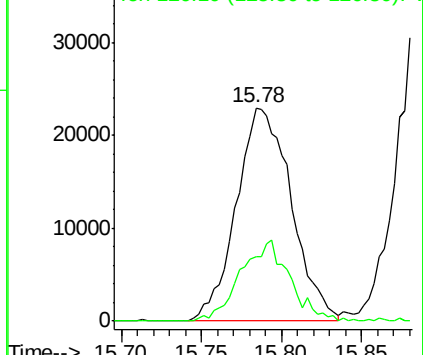
91 100

126 34.0 12.6 50.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.11 ppbv

RT: 16.17 min Scan# 4692

Delta R.T. 0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Tgt Ion: 105 Resp: 65007

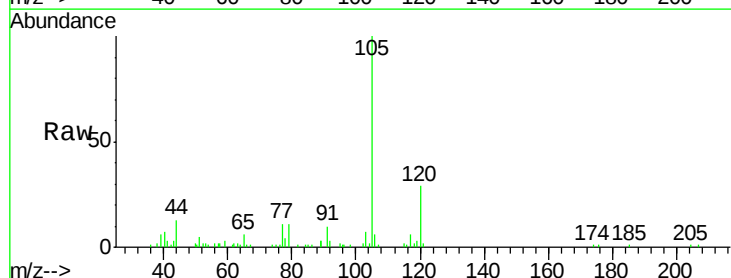
Ion Ratio Lower Upper

105 100

120 29.9 24.2 36.2

91 13.0 9.8 14.8

77 14.1 10.5 15.7

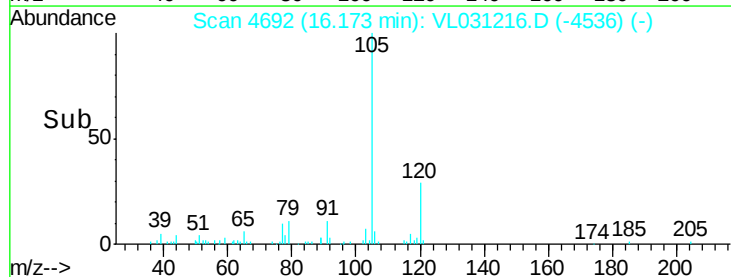
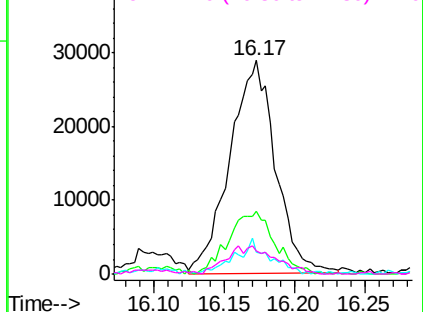


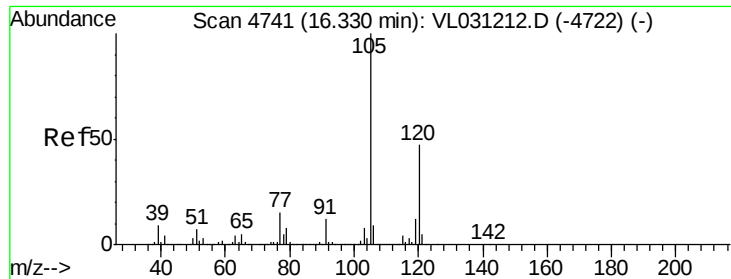
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

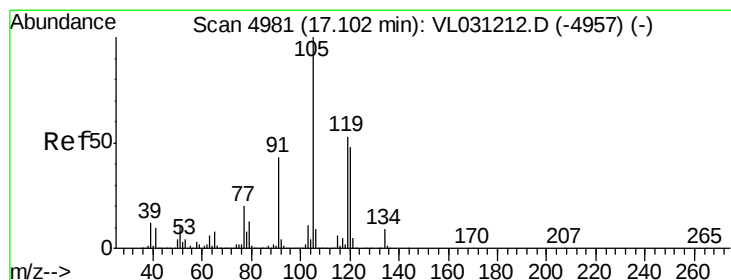
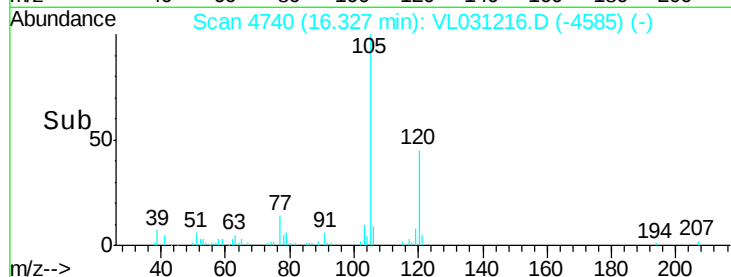
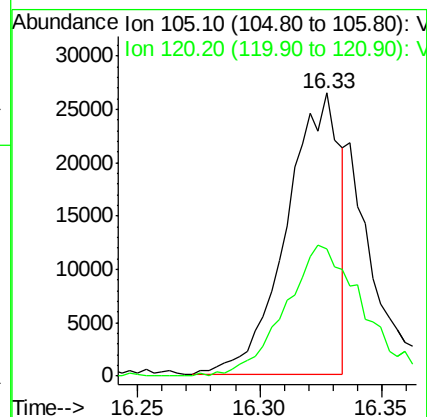
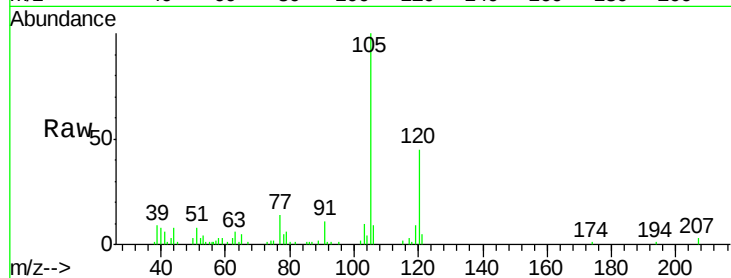




#73
 1,3,5-Trimethylbenzene
 Concen: 0.08 ppbv
 RT: 16.33 min Scan# 4740
 Delta R.T. -0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

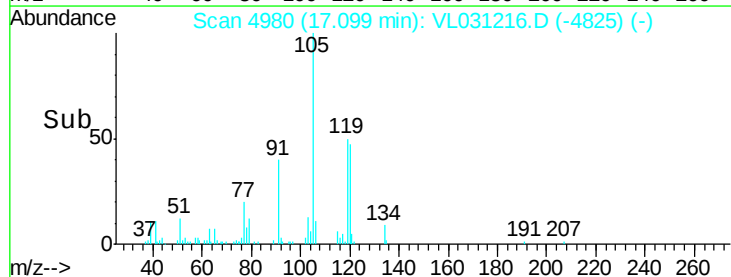
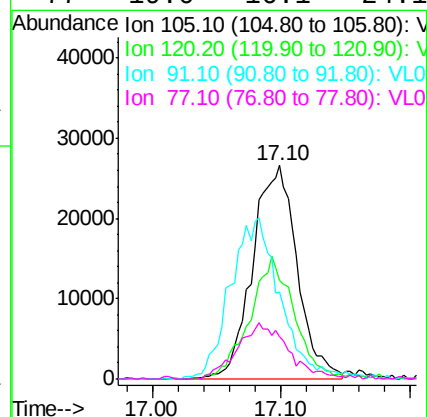
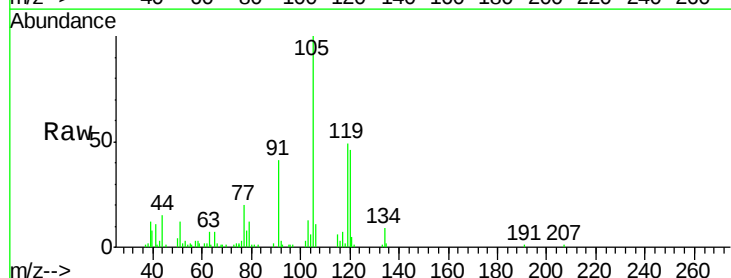
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

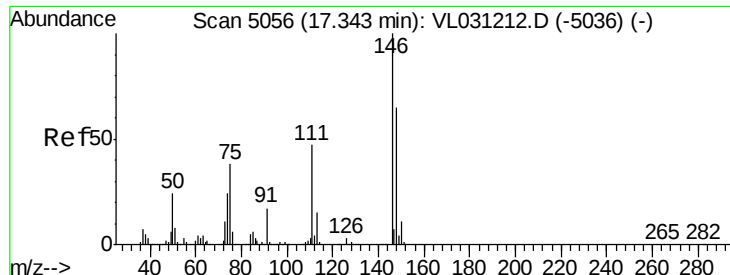
Tgt Ion:105 Resp: 39922
 Ion Ratio Lower Upper
 105 100
 120 45.1 37.8 56.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.11 ppbv
 RT: 17.10 min Scan# 4980
 Delta R.T. -0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion:105 Resp: 63725
 Ion Ratio Lower Upper
 105 100
 120 46.2 38.6 58.0
 91 39.4 34.2 51.4
 77 19.0 16.1 24.1





#75

1,3-Dichlorobenzene

Concen: 0.10 ppbv

RT: 17.34 min Scan# 5054

Delta R.T. -0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

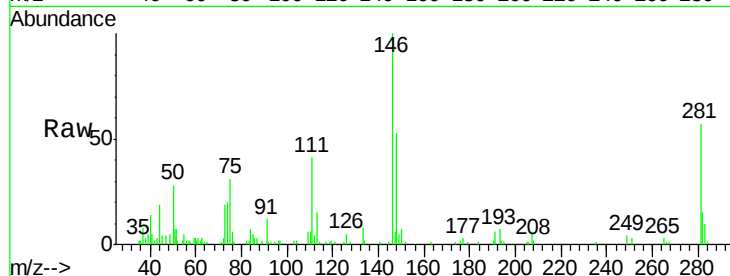
Tgt Ion:146 Resp: 37661

Ion Ratio Lower Upper

146 100

111 50.8 22.7 68.1

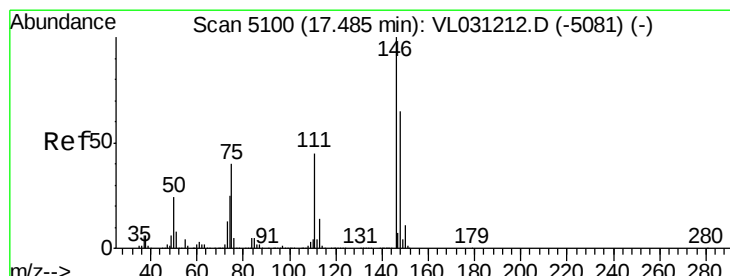
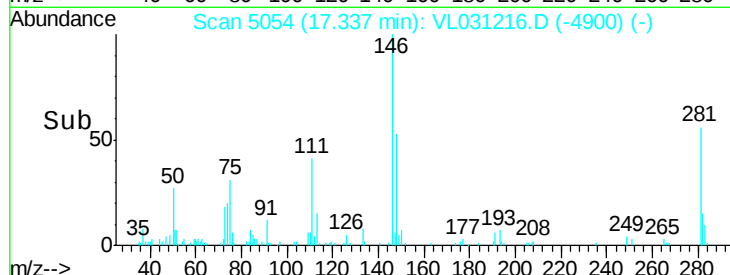
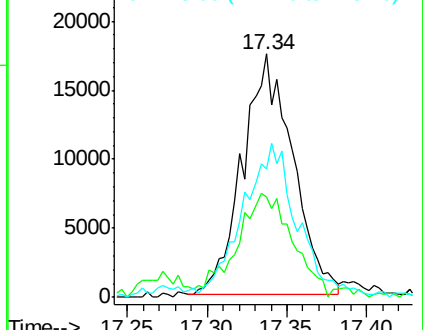
148 75.0 32.0 96.2



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



#76

1,4-Dichlorobenzene

Concen: 0.11 ppbv

RT: 17.48 min Scan# 5099

Delta R.T. -0.00 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

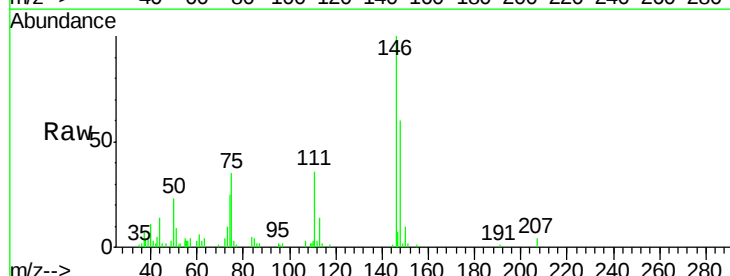
Tgt Ion:146 Resp: 38605

Ion Ratio Lower Upper

146 100

111 47.0 22.1 66.1

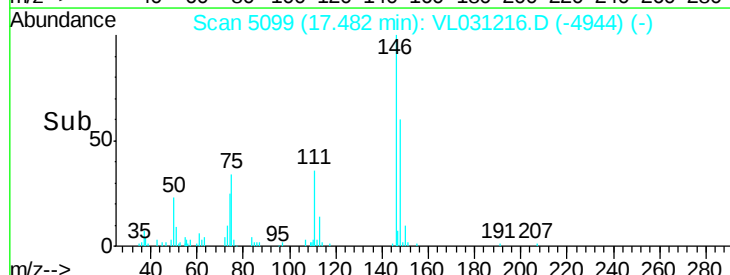
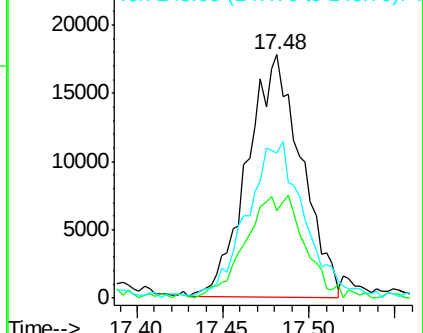
148 71.5 32.0 96.0

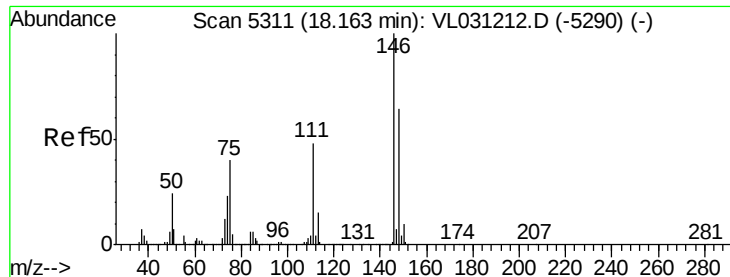


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

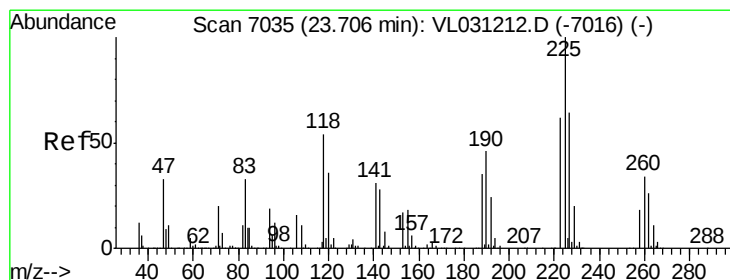
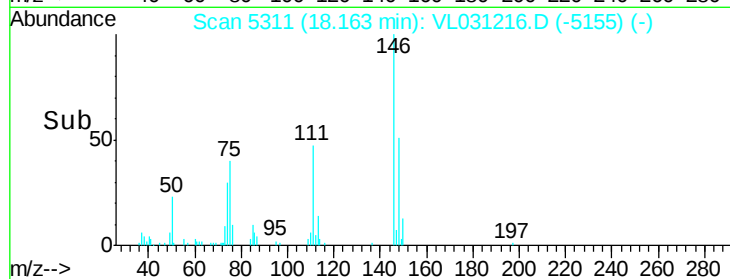
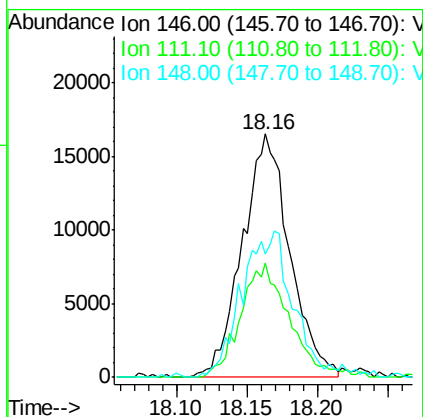
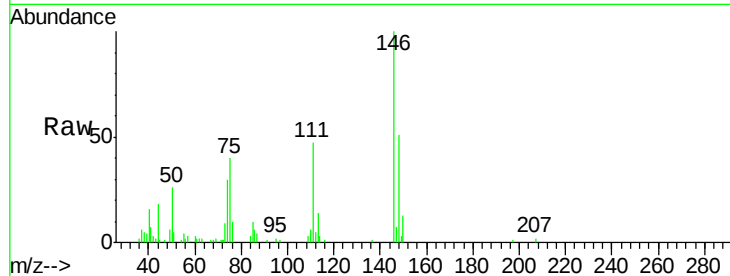




#77
 1,2-Dichlorobenzene
 Concen: 0.11 ppbv
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

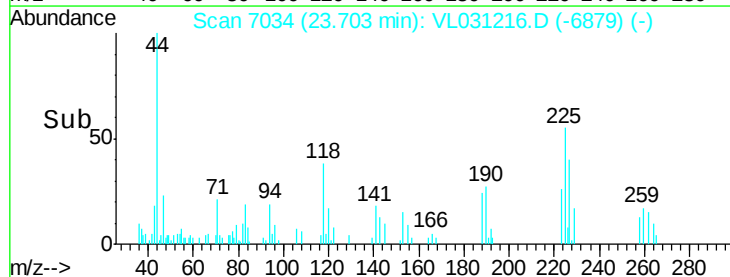
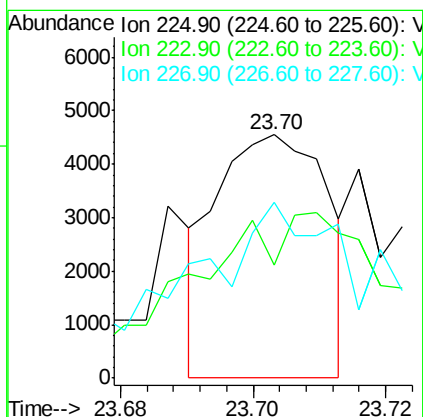
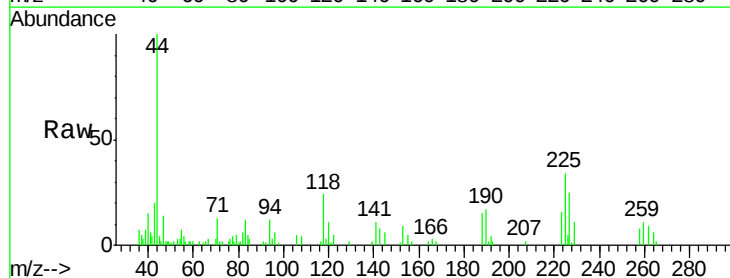
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

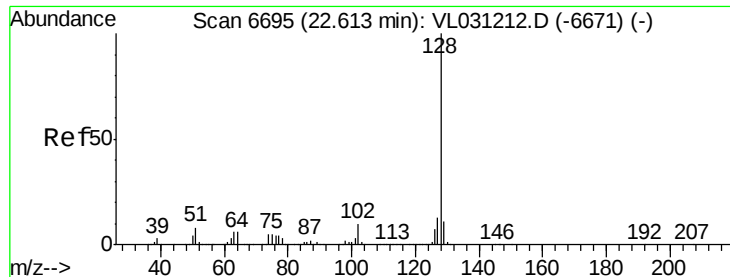
Tgt Ion:146 Resp: 38797
 Ion Ratio Lower Upper
 146 100
 111 48.6 23.3 69.8
 148 66.1 31.9 95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.08 ppbv
 RT: 23.70 min Scan# 7034
 Delta R.T. -0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Tgt Ion:225 Resp: 5288
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.4 75.6#
 227 132.2 51.3 76.9#





#79

Naphthalene

Concen: 0.09 ppbv

RT: 22.62 min Scan# 6698

Delta R.T. 0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

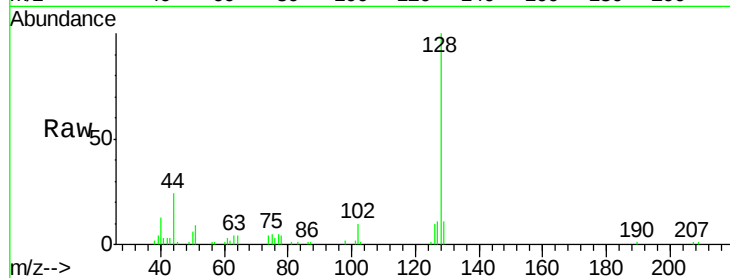
Tgt Ion:128 Resp: 36496

Ion Ratio Lower Upper

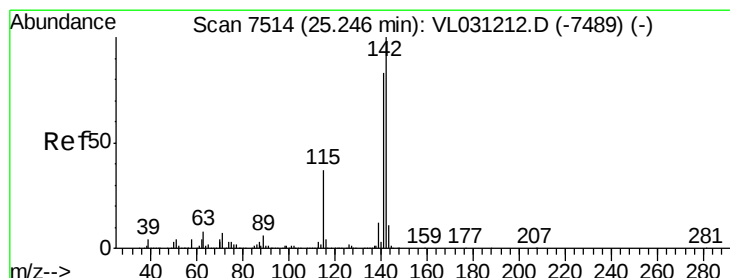
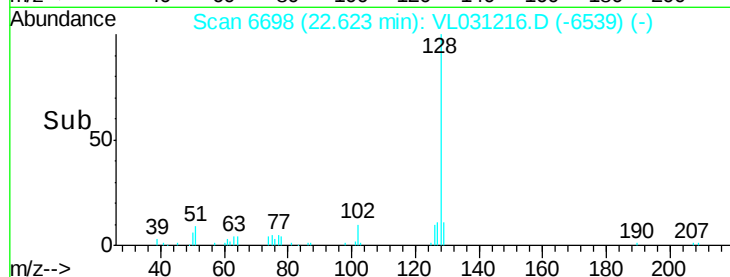
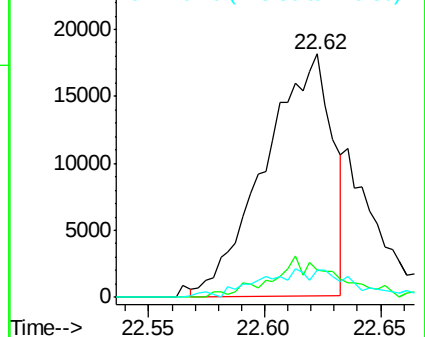
128 100

127 11.6 10.2 15.2

129 10.8 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.13 ppbv

RT: 25.25 min Scan# 7516

Delta R.T. 0.01 min

Lab File: VL031216.D

Acq: 14 Dec 2017 00:57

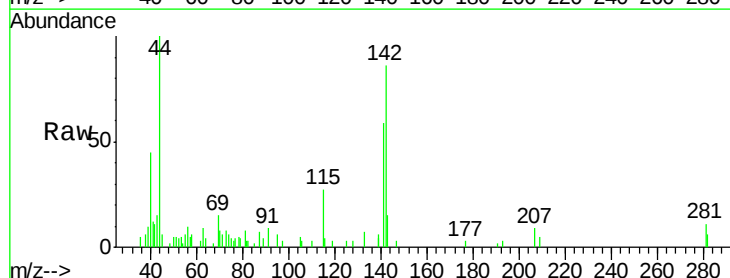
Tgt Ion:142 Resp: 14682

Ion Ratio Lower Upper

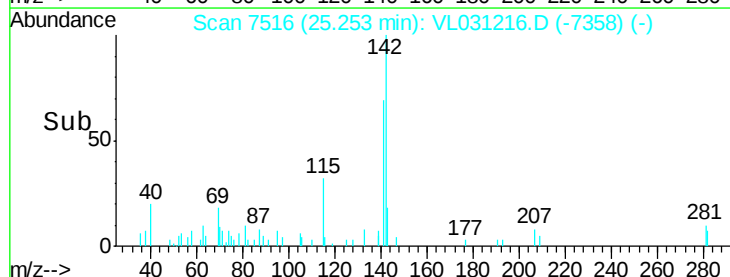
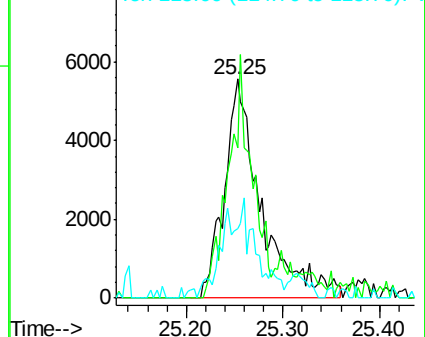
142 100

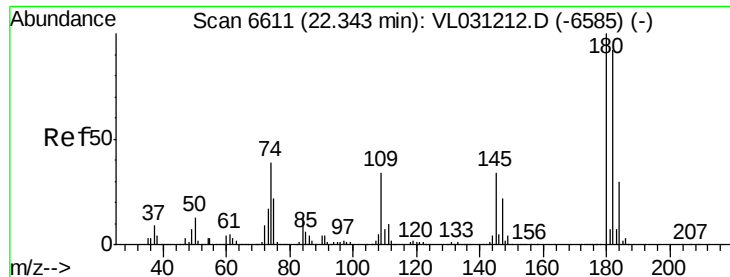
141 89.7 66.8 100.2

115 40.4 29.7 44.5



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





#81
 1,2,4-Trichlorobenzene
 Concen: 0.04 ppbv
 RT: 22.34 min Scan# 6610
 Delta R.T. -0.00 min
 Lab File: VL031216.D
 Acq: 14 Dec 2017 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:180 Resp: 8616
 Ion Ratio Lower Upper
 180 100
 182 0.0 75.9 113.9#
 184 0.0 24.2 36.2#

