

Data File : VL032263.D
Acq On : 18 Jul 2018 11:55
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Jul 18 12:41:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 09:58:24 2018
QLast Update : Wed Jul 18 09:58:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1724157	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3620249	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3978432	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3354558	10.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.13	85	34074	0.137	ppbv	91
3) Chlorodifluoromethane	3.06	51	22130	0.104	ppbv	95
4) Chloromethane	3.23	50	13311	0.110	ppbv	92
5) Vinyl Chloride	3.34	62	10705	0.090	ppbv	93
6) Bromomethane	3.57	94	6652	0.101	ppbv	94
7) Chloroethane	3.66	64	3551	0.087	ppbv #	82
8) Dichlorotetrafluoroethane	3.27	85	26278	0.096	ppbv	97
9) Propene	3.09	41	8298	0.092	ppbv	94
10) Heptane	8.33	43	14782	0.058	ppbv	88
11) Trichlorofluoromethane	4.07	101	24113	0.102	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.61	101	8387	0.055	ppbv #	18
14) Bromoethene	3.85	108	3872	0.054	ppbv #	45
16) 1,3-Butadiene	3.42	39	6982	0.069	ppbv #	70
20) Methylene Chloride	4.48	84	10449	0.154	ppbv	83
21) Allyl Chloride	4.55	41	11884	0.101	ppbv	92
24) 1,1-Dichloroethane	5.16	63	24914	0.107	ppbv #	93
25) Ethyl Acetate	5.86	43	37777	0.095	ppbv #	93
26) Hexane	5.86	57	17418	0.096	ppbv #	90
27) Carbon Disulfide	4.69	76	8074	0.050	ppbv #	15
28) Methyl tert-Butyl Ether	5.21	73	23023	0.081	ppbv	97
29) Chloroform	5.92	83	26349	0.094	ppbv	94
30) Cyclohexane	7.32	84	6578	0.041	ppbv #	1
31) cis-1,2-Dichloroethene	5.71	61	14807	0.082	ppbv	87
32) 1,1,1-Trichloroethane	6.69	97	11574	0.043	ppbv #	22
34) 2-Butanone	5.43	43	14552	0.059	ppbv #	60
35) Carbon Tetrachloride	7.22	117	23664	0.097	ppbv #	88
36) Benzene	7.08	78	21588	0.060	ppbv #	88
37) 1,2-Dichloroethane	6.49	62	13298	0.068	ppbv #	82
38) Trichloroethene	8.04	130	6359	0.052	ppbv #	54
39) 1,2-Dichloropropane	7.82	63	11609	0.081	ppbv	90
47) 1,1,2-Trichloroethane	9.70	97	5945	0.037	ppbv #	50
48) Dibromochloromethane	10.54	129	12636	0.053	ppbv	76
49) Bromoform	13.29	173	10003	0.053	ppbv #	59
53) Toluene	10.03	91	16500	0.039	ppbv #	20
56) 1,1,1,2-Tetrachloroethane	12.37	131	17536	0.101	ppbv #	1
57) Chlorobenzene	12.40	112	15734	0.047	ppbv #	92
60) o-Xylene	13.94	91	15343	0.033	ppbv #	40
61) Styrene	13.77	104	12043	0.034	ppbv #	36
62) Isopropylbenzene	14.91	105	22645	0.034	ppbv #	30
63) 1,1,2,2-Tetrachloroethane	13.93	83	24731	0.065	ppbv #	25
64) n-propylbenzene	15.82	120	6964	0.042	ppbv #	1

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Instrument :
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Quant Time: Jul 18 12:41:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 09:58:24 2018
QLast Update : Wed Jul 18 09:58:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	17.25	91	9051	0.032	ppbv #	16
67) sec-Butylbenzene	17.54	105	26136	0.032	ppbv #	60
69) p-Isopropyltoluene	17.90	119	26903	0.043	ppbv #	49
70) n-Butylbenzene	18.81	91	49440	0.071	ppbv	96
71) 2-Chlorotoluene	15.71	91	27147	0.052	ppbv #	67
72) 4-Ethyltoluene	16.09	105	16300	0.031	ppbv #	56
74) 1,2,4-Trimethylbenzene	17.02	105	22125	0.044	ppbv #	93
75) 1,3-Dichlorobenzene	17.25	146	32739	0.109	ppbv	82
76) 1,4-Dichlorobenzene	17.39	146	12537	0.043	ppbv #	1
77) 1,2-Dichlorobenzene	18.09	146	18650	0.063	ppbv #	37
78) Hexachloro-1,3-Butadiene	23.63	225	7542	0.081	ppbv #	18
80) Naphthalene,2-methyl-	25.19	142	9157	0.085	ppbv	98

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

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Sample : VSTDICC0.1

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCO.1

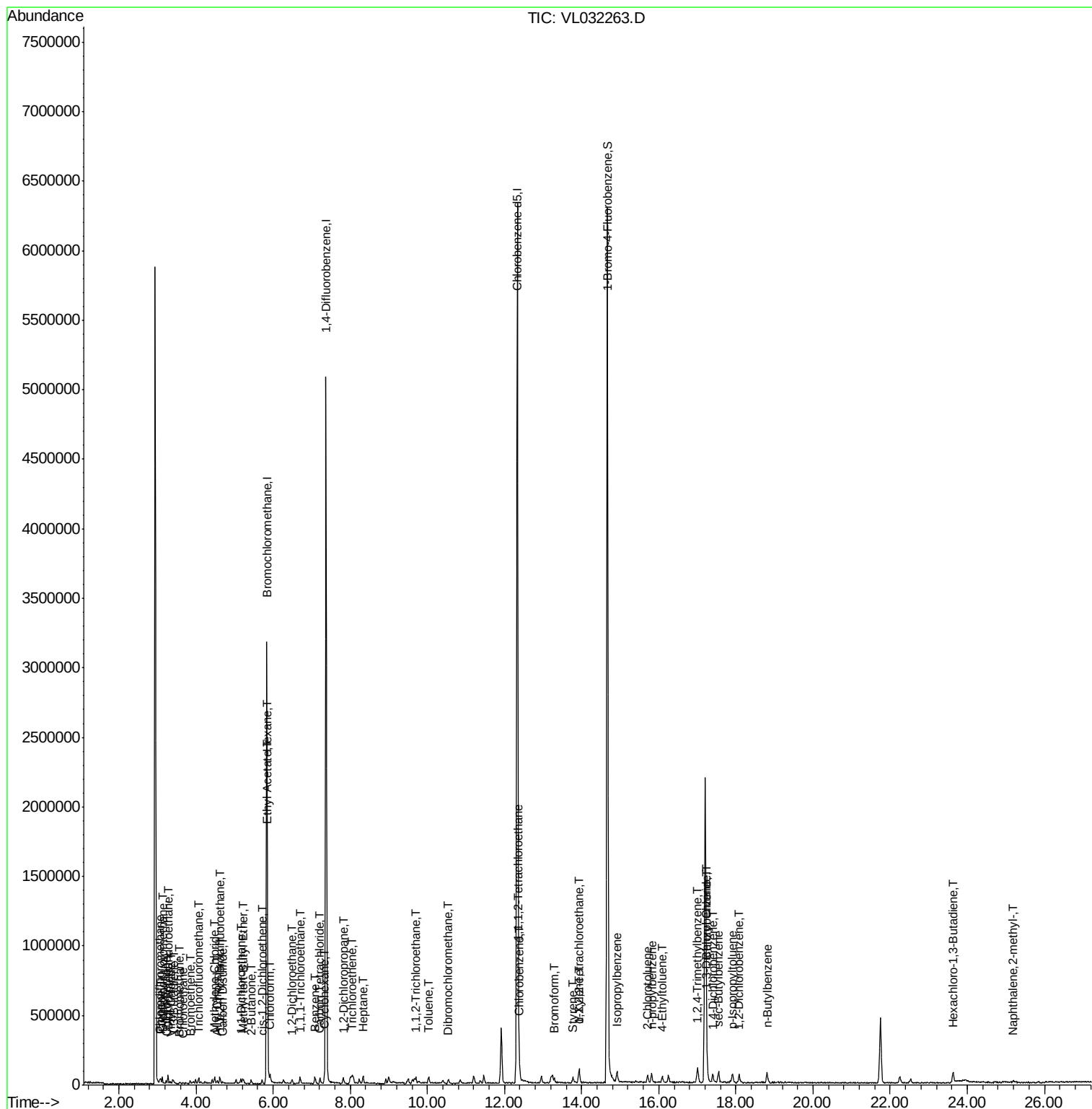
Quant Time: Jul 18 12:41:51 2018

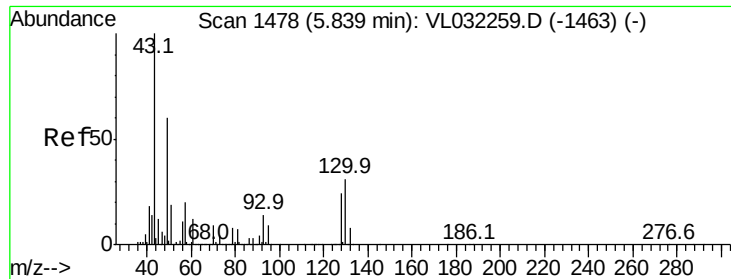
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL071818AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Jul 18 09:58:24 2018

QLast Update : Wed Jul 18 09:58:24 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

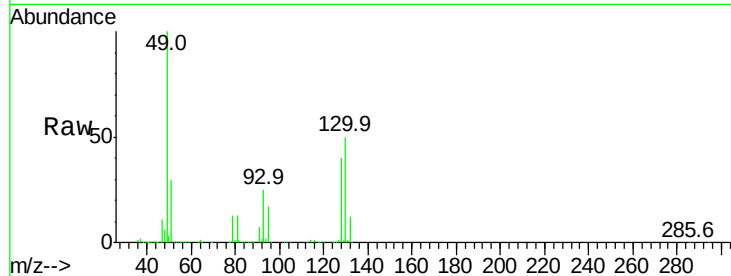
Tgt Ion: 49 Resp: 1724157

Ion Ratio Lower Upper

49 100

128 40.1 20.1 60.2

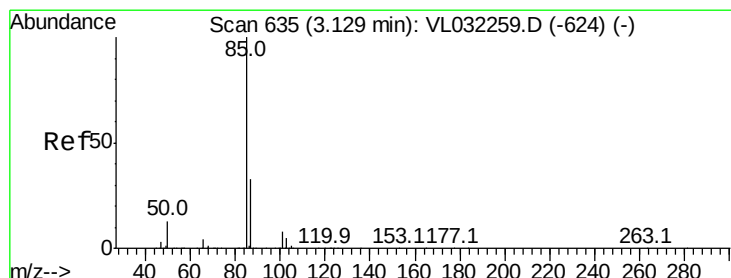
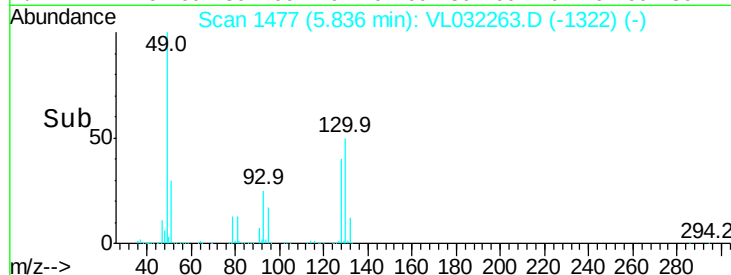
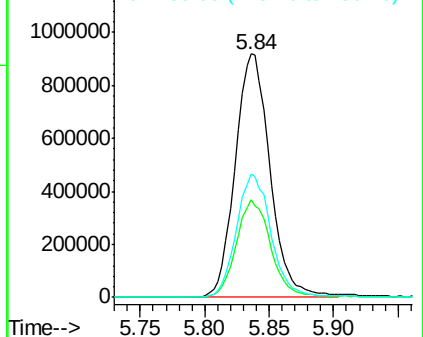
130 50.9 25.9 77.6



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: 0.137 ppbv

RT: 3.13 min Scan# 634

Delta R.T. -0.00 min

Lab File: VL032263.D

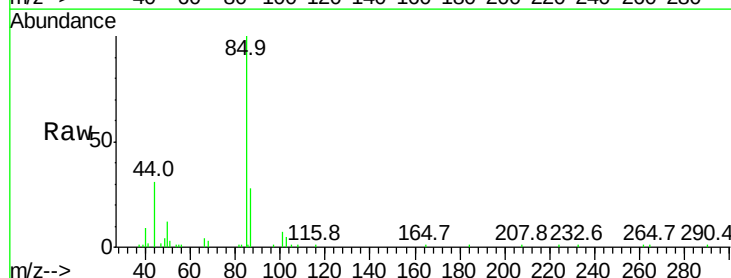
Acq: 18 Jul 2018 11:55

Tgt Ion: 85 Resp: 34074

Ion Ratio Lower Upper

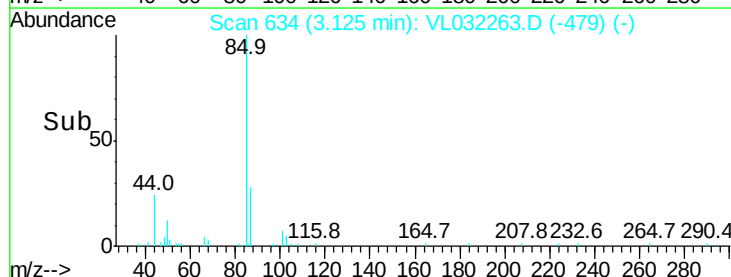
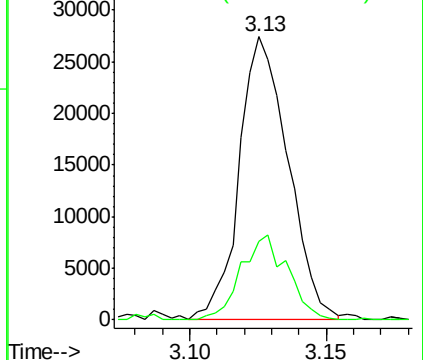
85 100

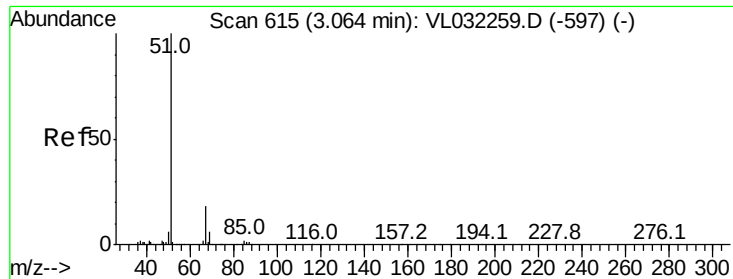
87 27.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.104 ppbv

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

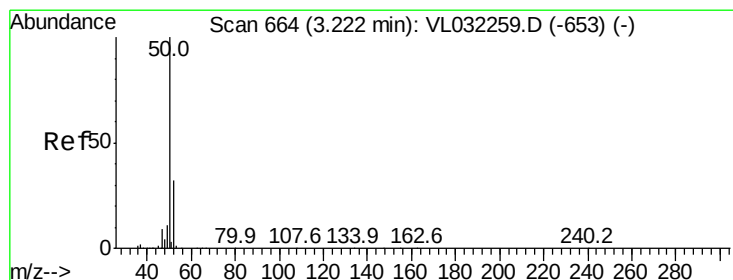
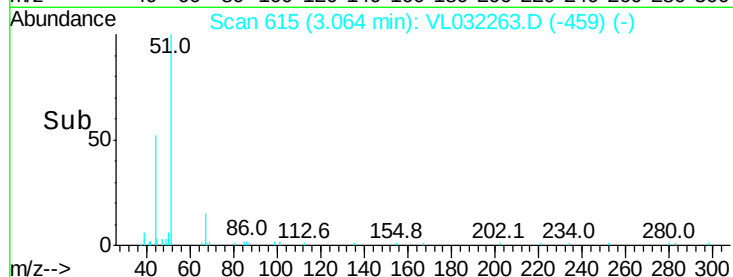
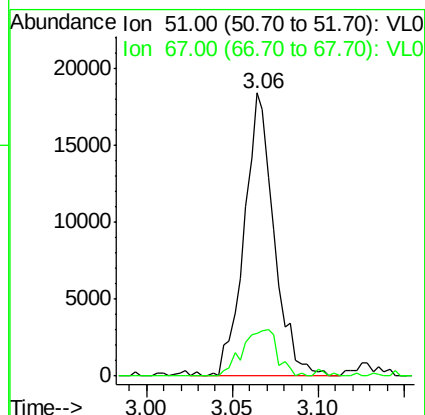
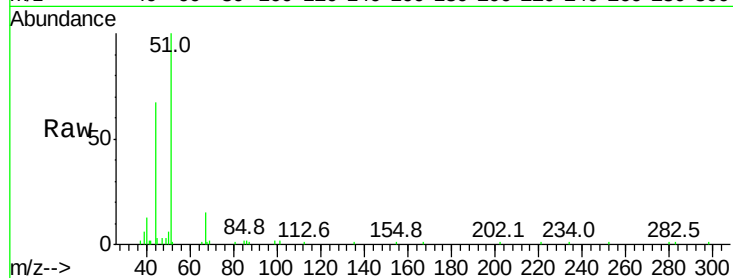
VSTDIC0.1

Tgt Ion: 51 Resp: 22130

Ion Ratio Lower Upper

51 100

67 20.1 14.2 21.4



#4

Chloromethane

Concen: 0.110 ppbv

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VL032263.D

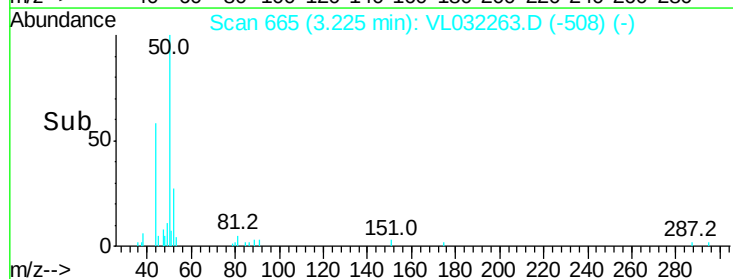
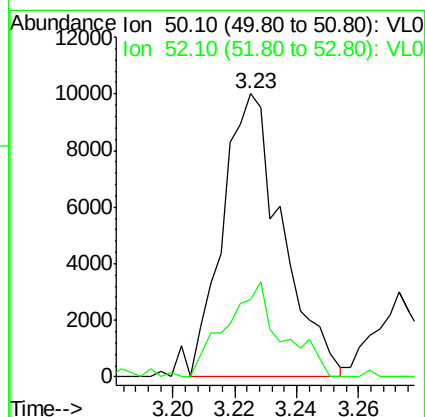
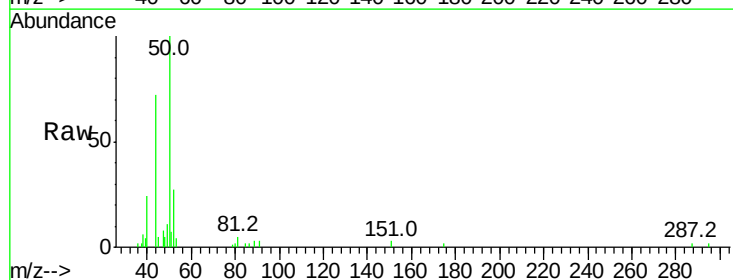
Acq: 18 Jul 2018 11:55

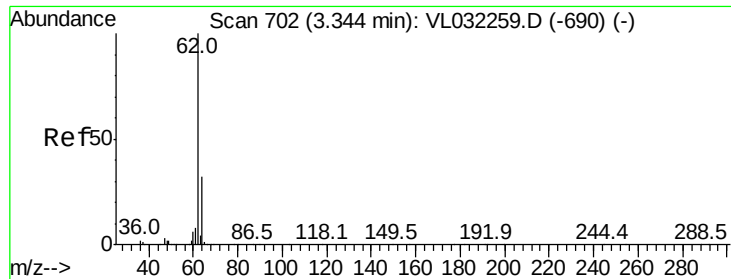
Tgt Ion: 50 Resp: 13311

Ion Ratio Lower Upper

50 100

52 27.4 25.3 37.9





#5

Vinyl Chloride

Concen: 0.090 ppbv

RT: 3.34 min Scan# 702

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

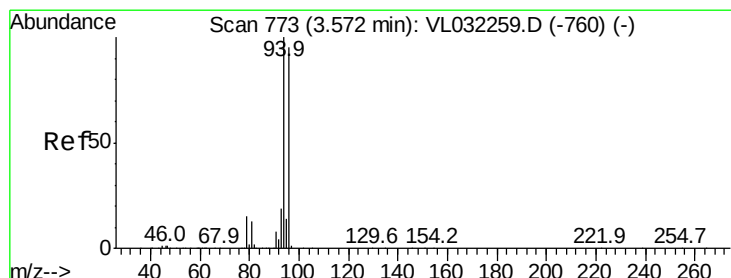
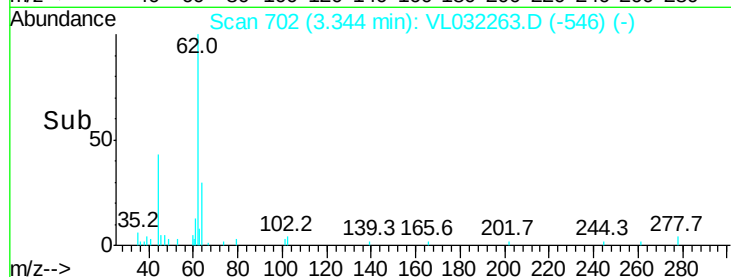
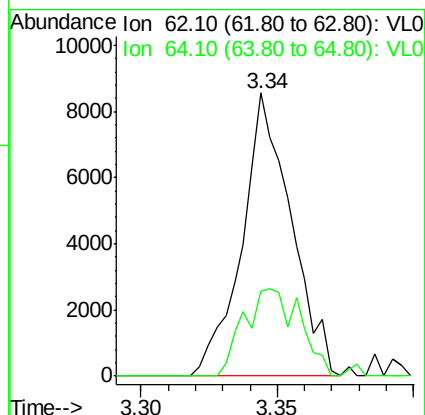
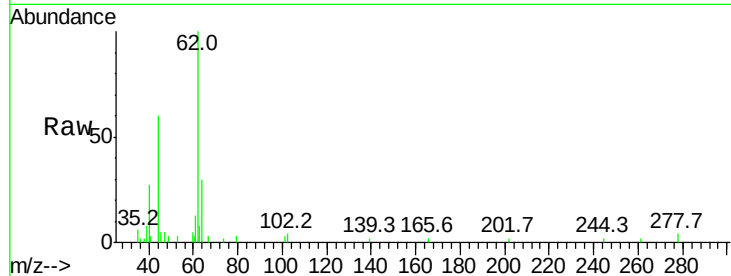
VSTDIC0.1

Tgt Ion: 62 Resp: 10705

Ion Ratio Lower Upper

62 100

64 27.8 25.3 37.9



#6

Bromomethane

Concen: 0.101 ppbv

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VL032263.D

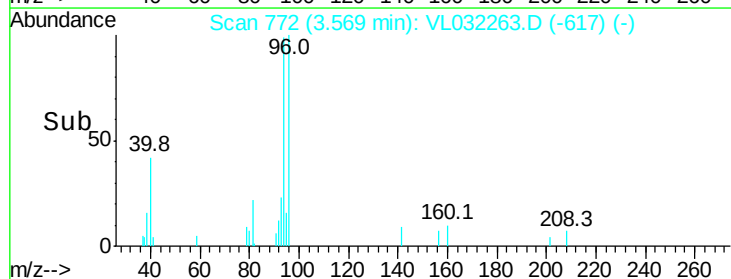
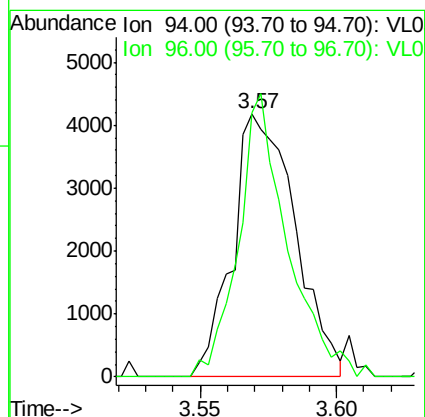
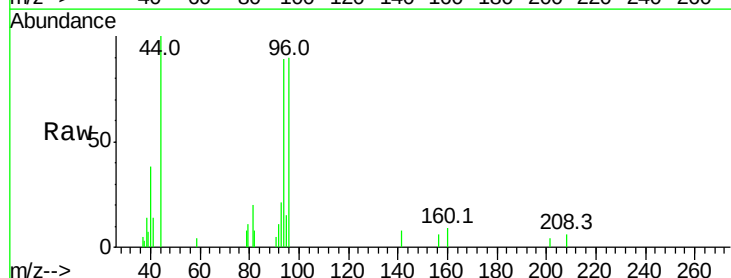
Acq: 18 Jul 2018 11:55

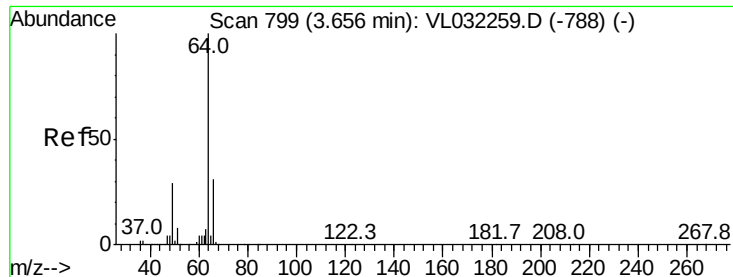
Tgt Ion: 94 Resp: 6652

Ion Ratio Lower Upper

94 100

96 100.5 76.1 114.1





#7

Chloroethane

Concen: 0.087 ppbv

RT: 3.66 min Scan# 799

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

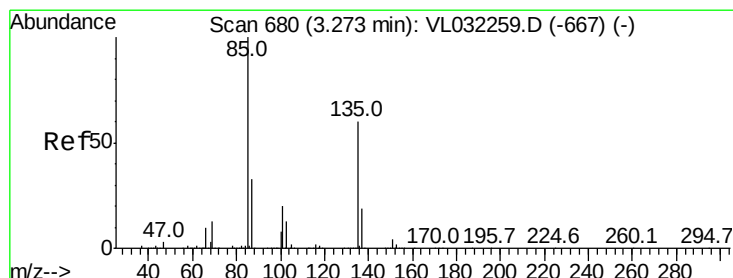
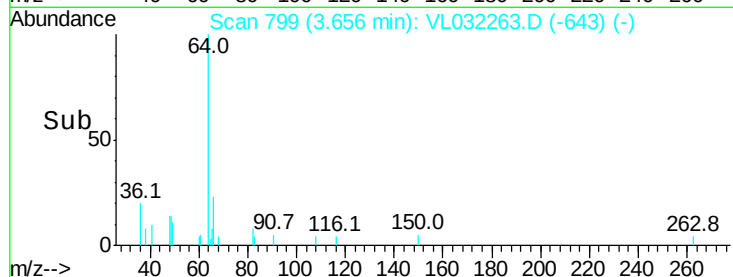
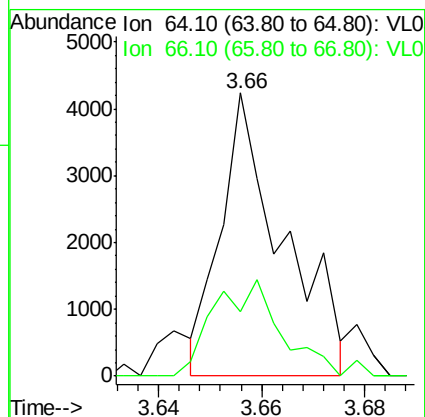
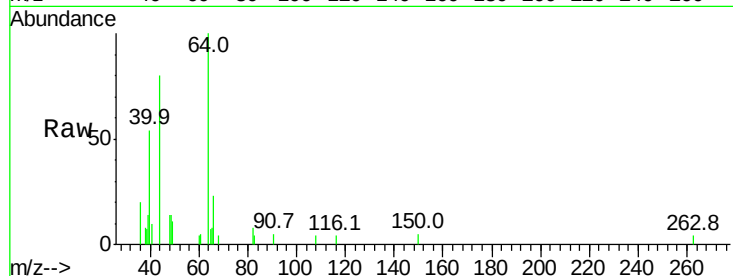
VSTDIC0.1

Tgt Ion: 64 Resp: 3551

Ion Ratio Lower Upper

64 100

66 21.2 25.0 37.4#



#8

Dichlorotetrafluoroethane

Concen: 0.096 ppbv

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032263.D

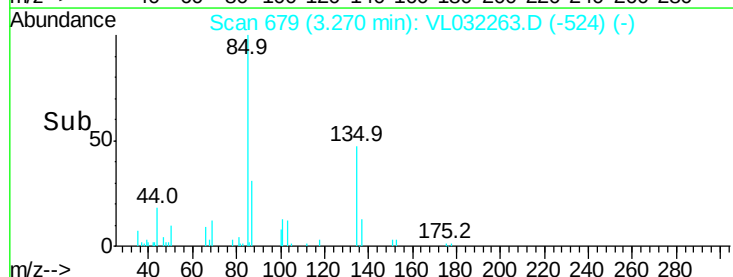
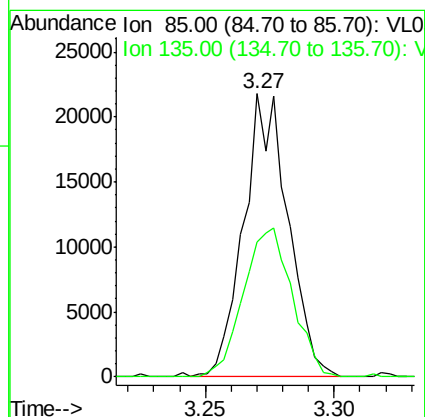
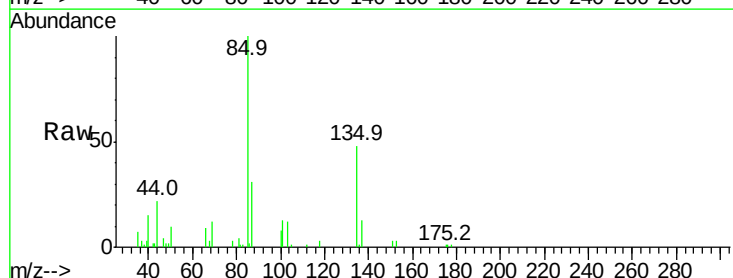
Acq: 18 Jul 2018 11:55

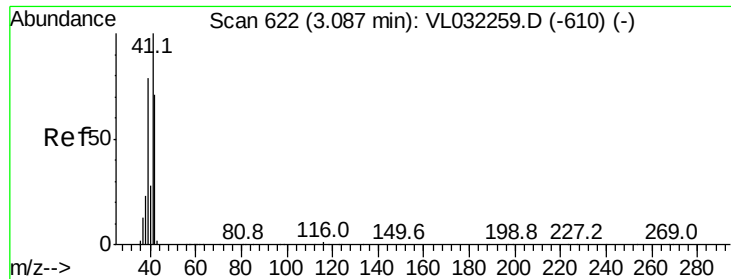
Tgt Ion: 85 Resp: 26278

Ion Ratio Lower Upper

85 100

135 57.7 47.8 71.8





#9

Propene

Concen: 0.092 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

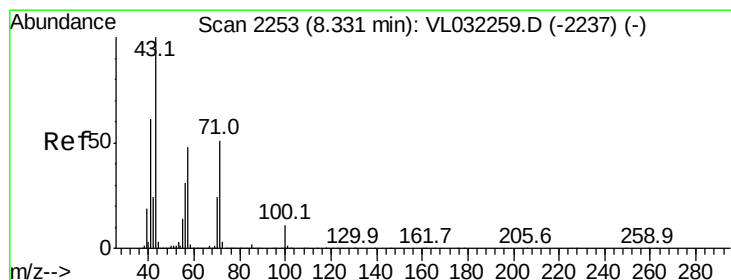
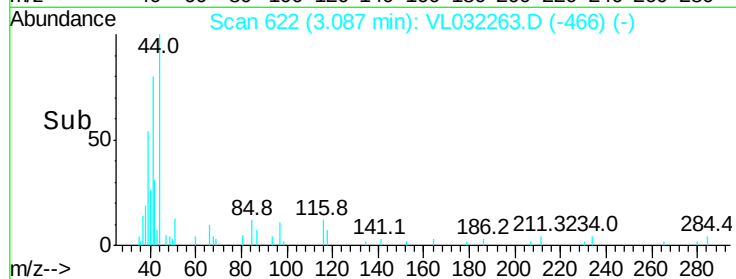
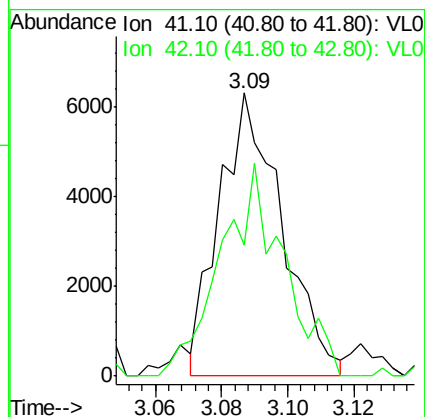
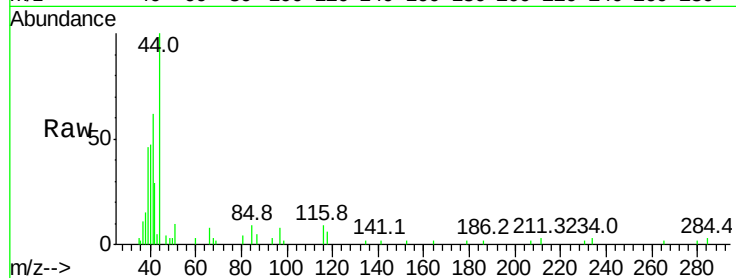
VSTDIC0.1

Tgt Ion: 41 Resp: 8298

Ion Ratio Lower Upper

41 100

42 75.6 56.2 84.4



#10

Heptane

Concen: 0.058 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VL032263.D

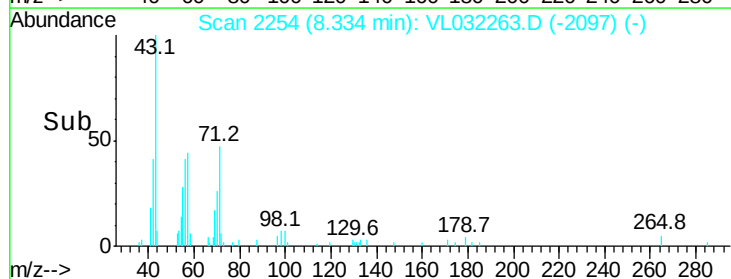
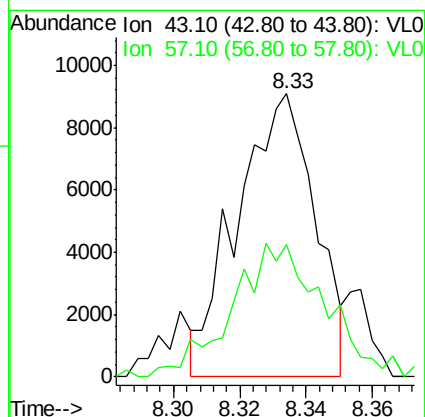
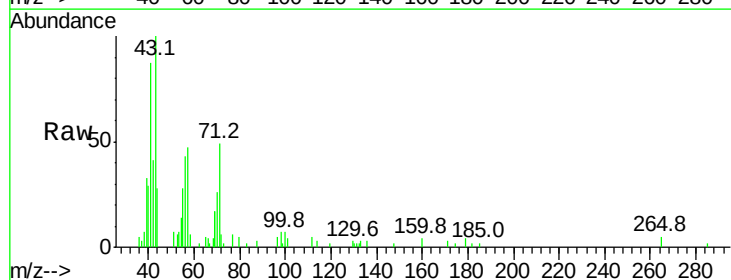
Acq: 18 Jul 2018 11:55

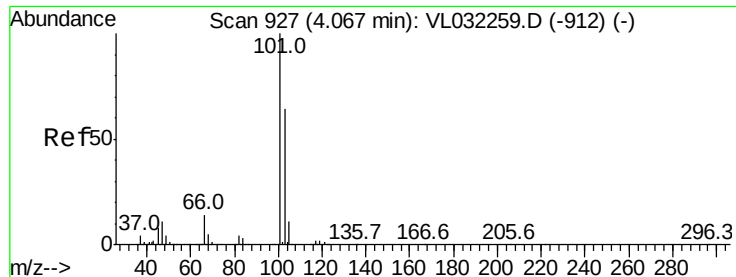
Tgt Ion: 43 Resp: 14782

Ion Ratio Lower Upper

43 100

57 58.4 39.9 59.9





#11

Trichlorofluoromethane

Concen: 0.102 ppbv

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

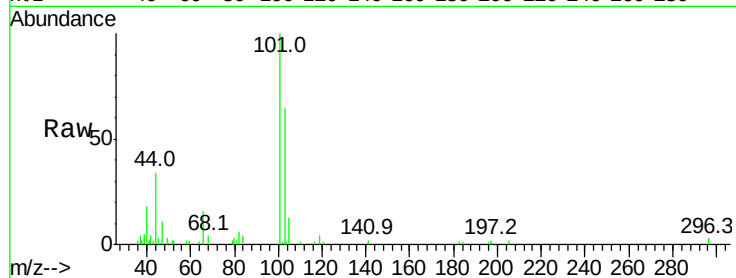
VSTDIC0.1

Tgt Ion:101 Resp: 24113

Ion Ratio Lower Upper

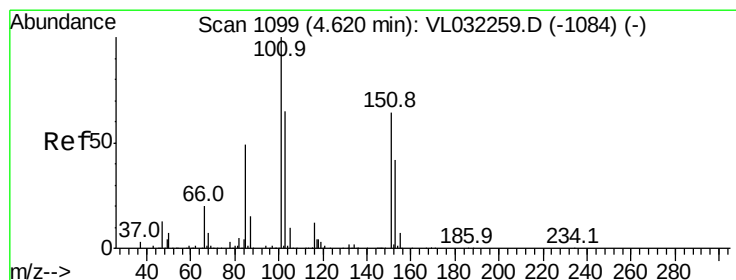
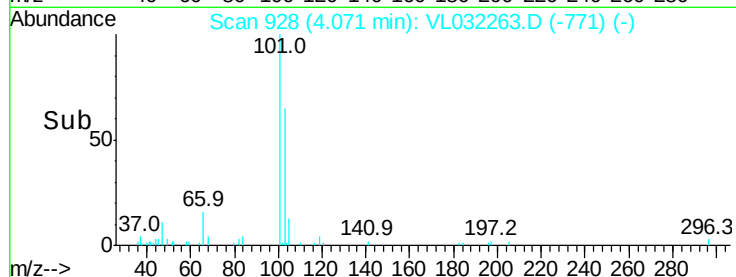
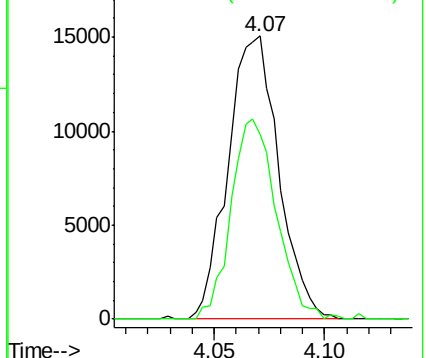
101 100

103 65.3 51.5 77.3



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: 0.055 ppbv

RT: 4.61 min Scan# 1097

Delta R.T. -0.01 min

Lab File: VL032263.D

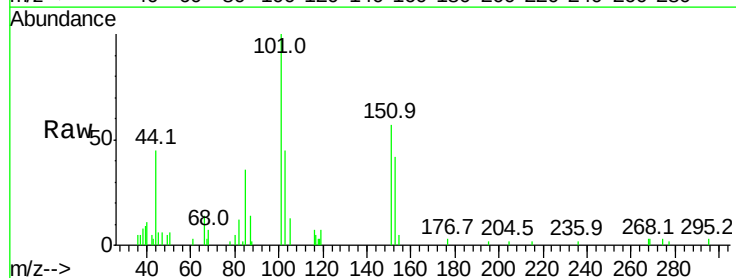
Acq: 18 Jul 2018 11:55

Tgt Ion:101 Resp: 8387

Ion Ratio Lower Upper

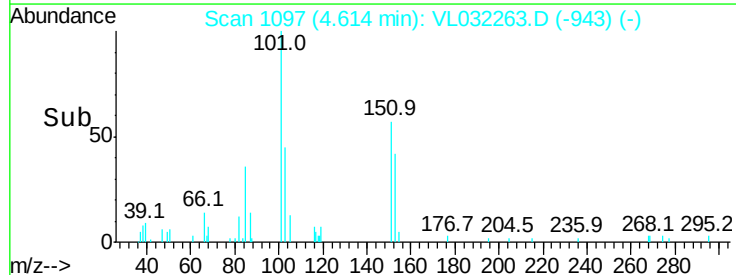
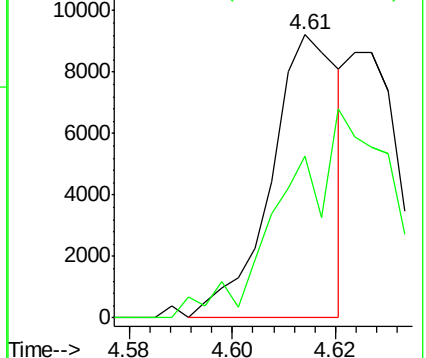
101 100

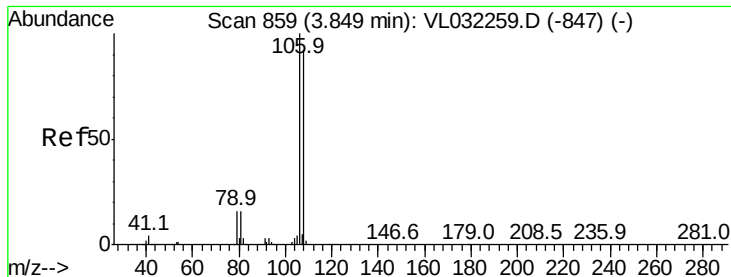
151 0.0 51.3 76.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.054 ppbv

RT: 3.85 min Scan# 860

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

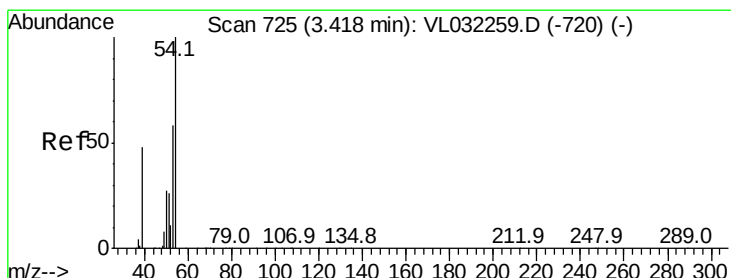
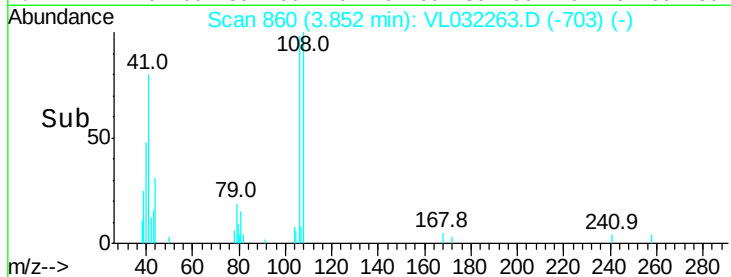
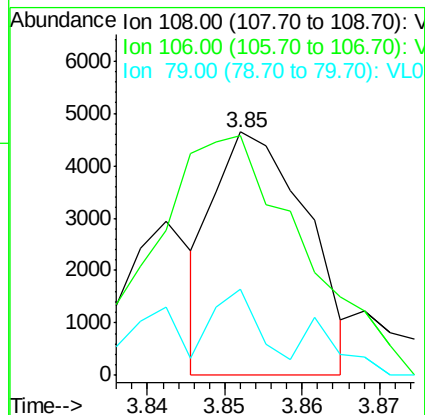
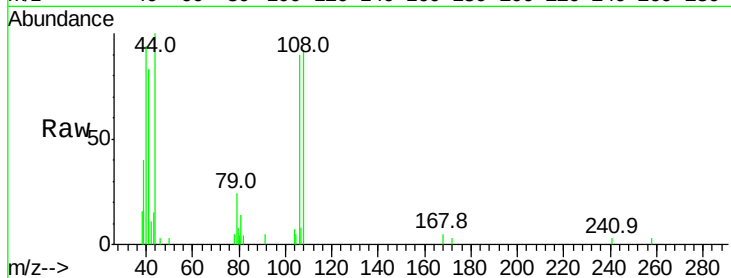
Tgt Ion:108 Resp: 3872

Ion Ratio Lower Upper

108 100

106 160.8 86.2 129.4#

79 52.9 14.0 21.0#



#16

1,3-Butadiene

Concen: 0.069 ppbv

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VL032263.D

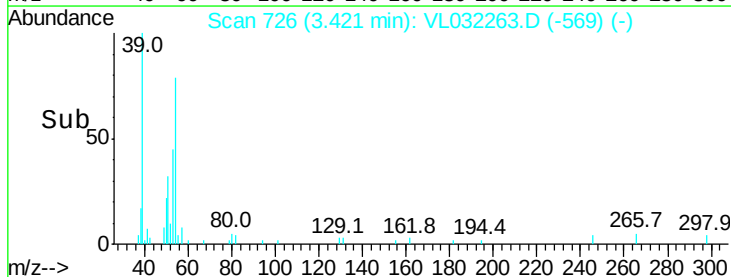
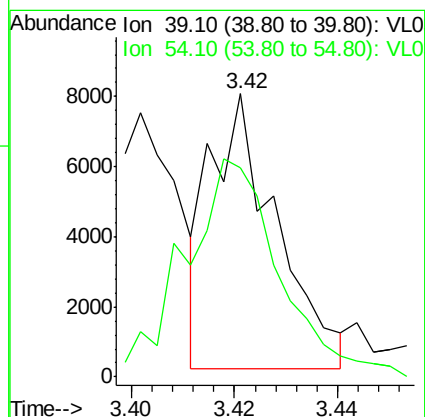
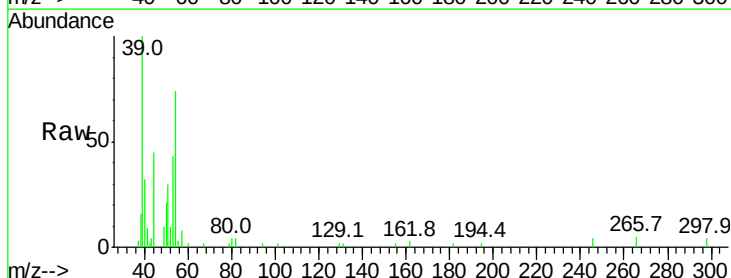
Acq: 18 Jul 2018 11:55

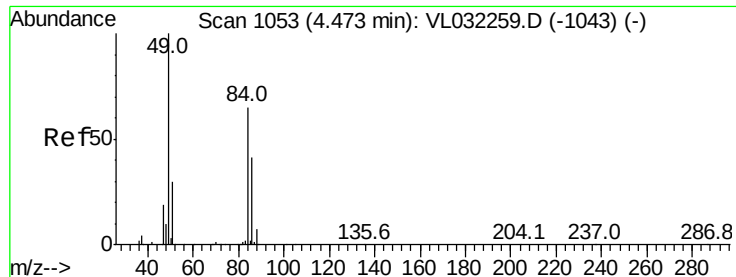
Tgt Ion: 39 Resp: 6982

Ion Ratio Lower Upper

39 100

54 116.4 70.6 105.8#

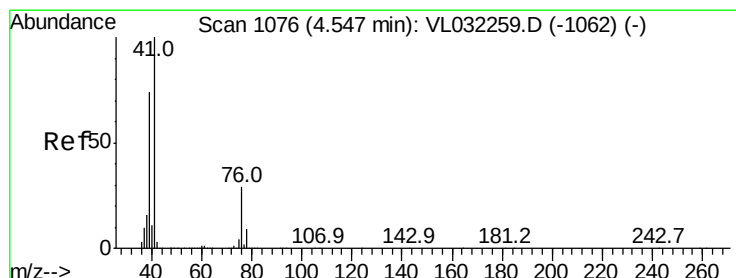
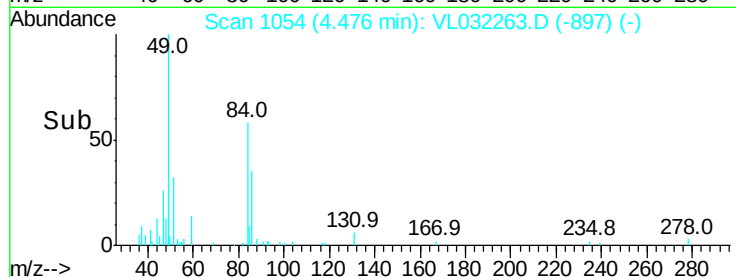
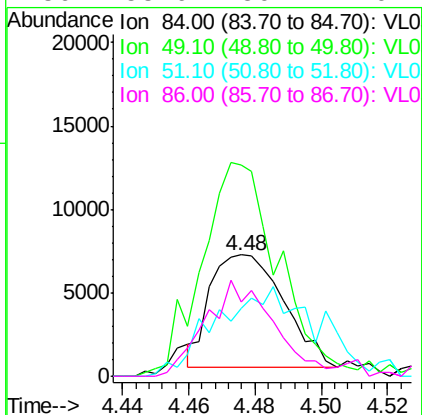
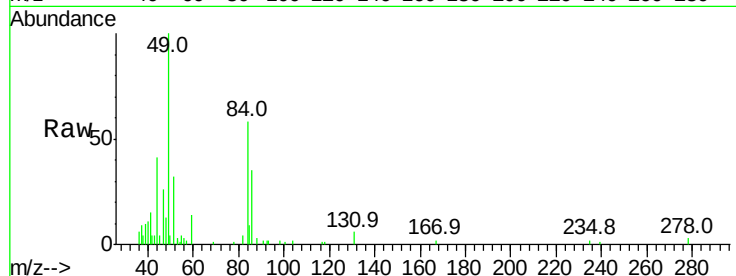




#20
Methylene Chloride
Concen: 0.154 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

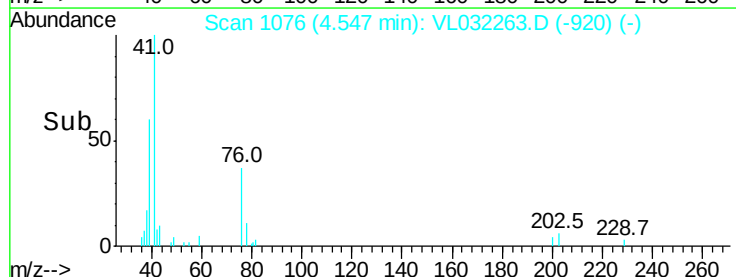
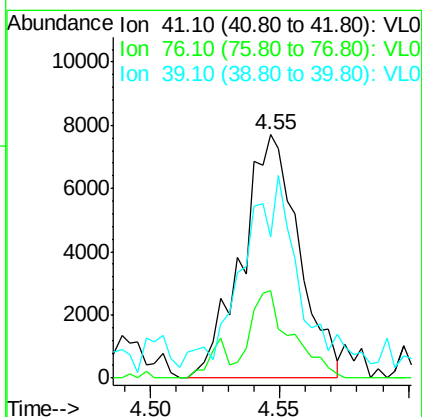
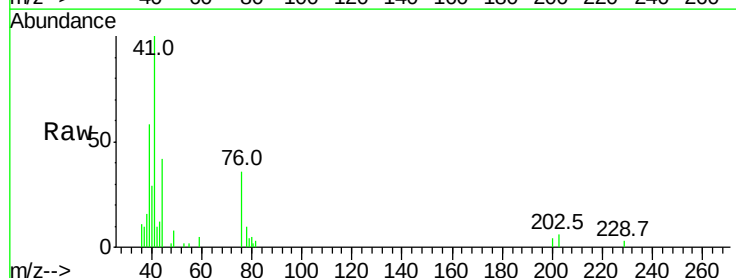
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

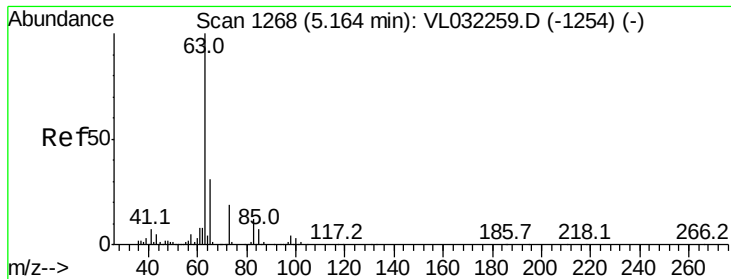
Tgt Ion:	84	Resp:	10449
Ion	Ratio	Lower	Upper
84	100		
49	182.9	122.4	183.6
51	39.8	36.8	55.2
86	58.6	50.7	76.1



#21
Allyl Chloride
Concen: 0.101 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion:	41	Resp:	11884
Ion	Ratio	Lower	Upper
41	100		
76	32.0	23.0	34.6
39	82.4	60.2	90.4





#24

1,1-Dichloroethane

Concen: 0.107 ppbv

RT: 5.16 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

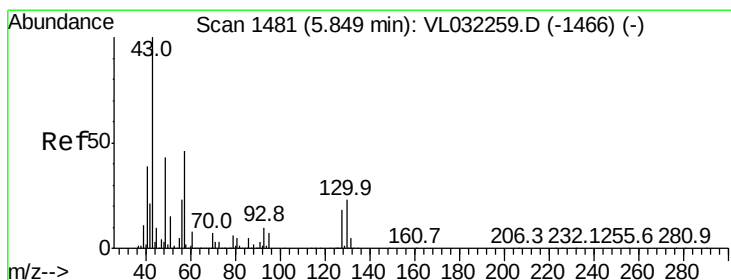
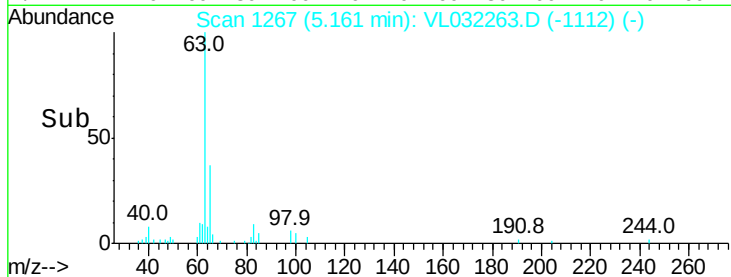
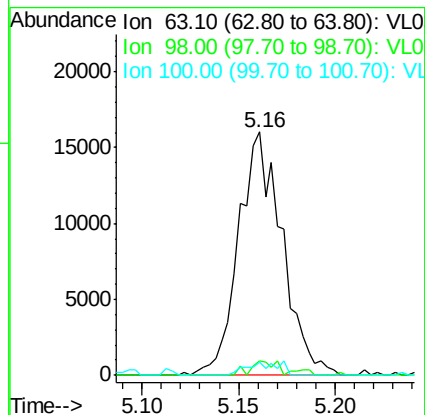
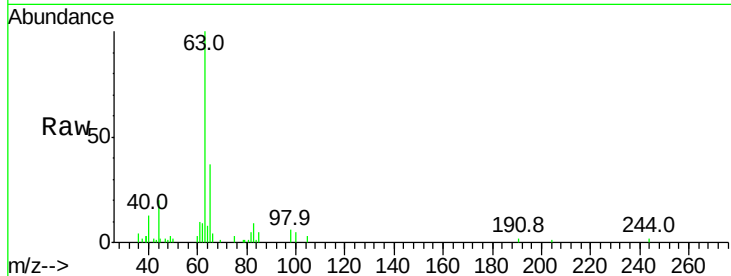
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	63	Resp:	24914
Ion	Ratio	Lower	Upper
63	100		
98	6.2	2.1	6.3
100	5.5	1.3	3.9#



#25

Ethyl Acetate

Concen: 0.095 ppbv

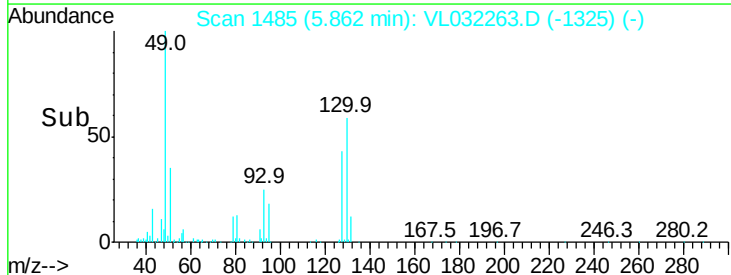
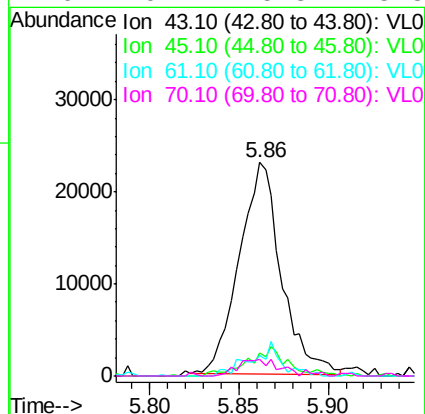
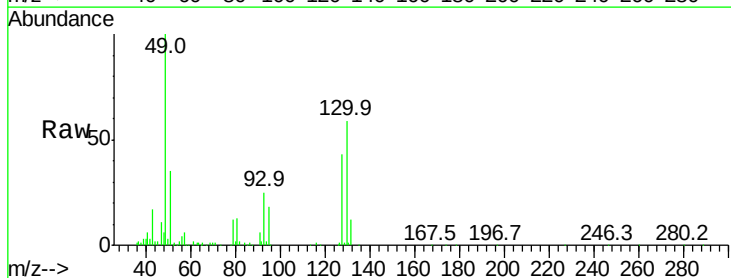
RT: 5.86 min Scan# 1485

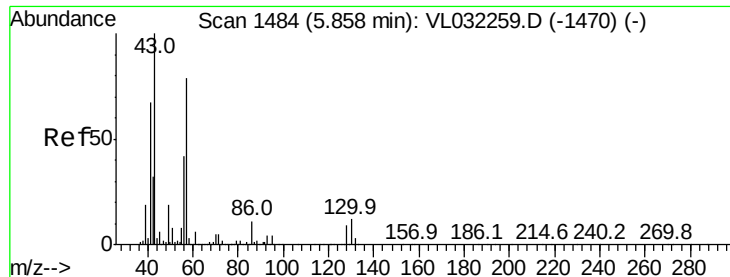
Delta R.T. 0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Tgt Ion:	43	Resp:	37777
Ion	Ratio	Lower	Upper
43	100		
45	13.5	7.9	11.9#
61	11.7	7.6	11.4#
70	9.2	5.8	8.8#





#26

Hexane

Concen: 0.096 ppbv

RT: 5.86 min Scan# 1484

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 57 Resp: 17418

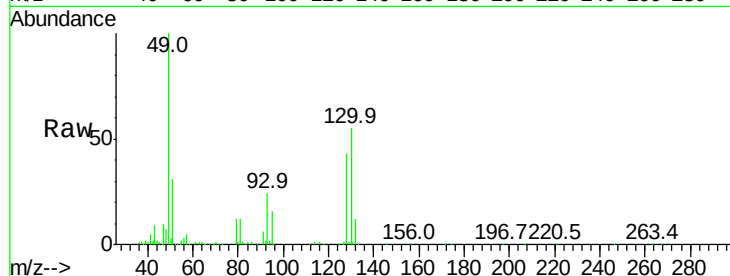
Ion Ratio Lower Upper

57 100

41 102.3 67.9 101.9#

43 229.1 175.9 263.9

56 64.0 41.9 62.9#

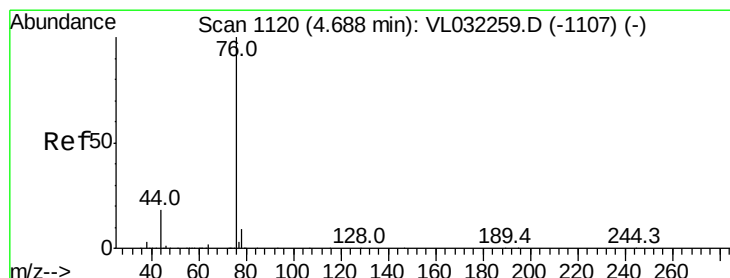
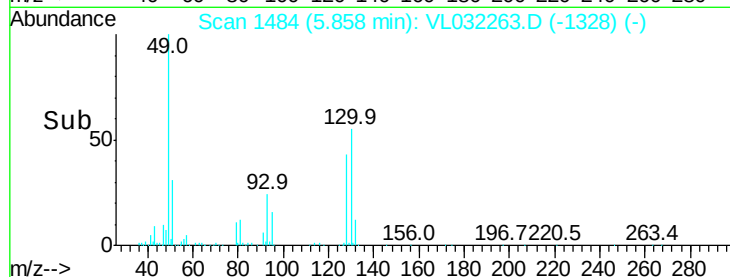
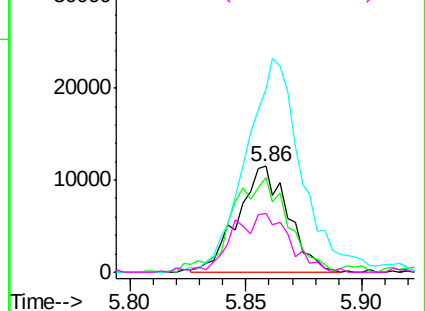


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.050 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

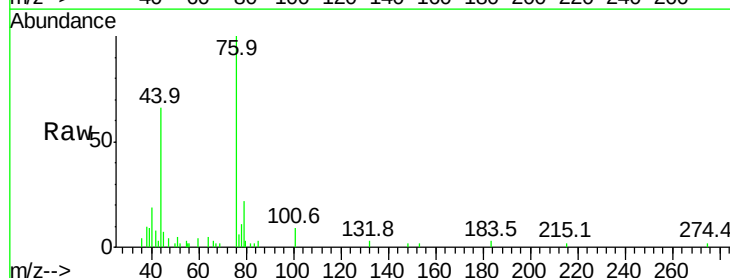
Tgt Ion: 76 Resp: 8074

Ion Ratio Lower Upper

76 100

44 60.8 14.3 21.5#

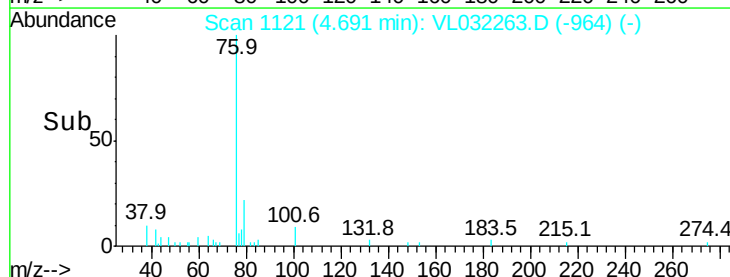
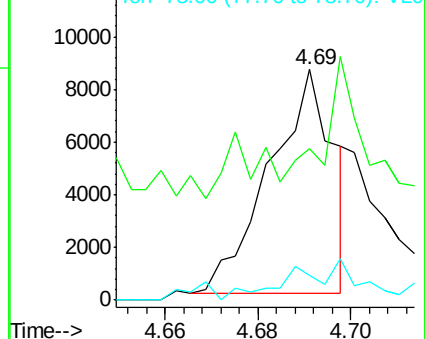
78 31.3 7.4 11.0#

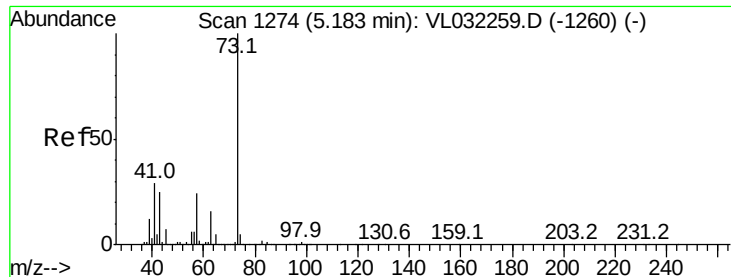


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

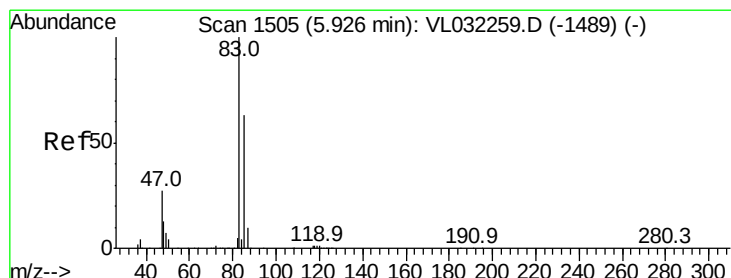
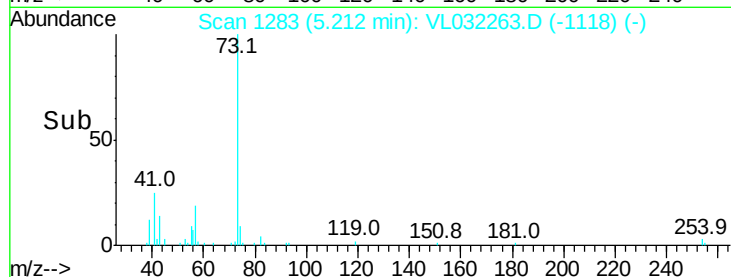
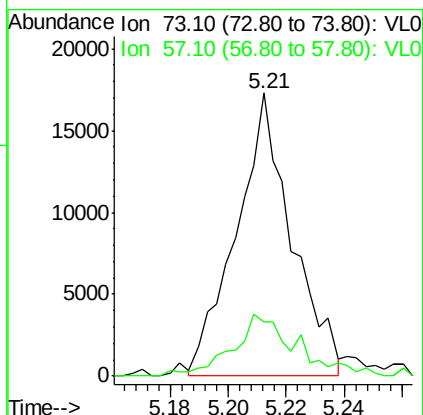
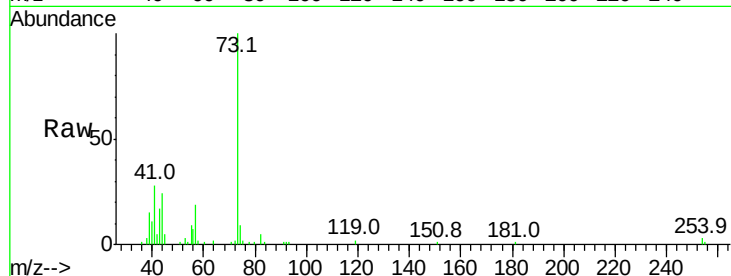




#28
Methyl tert-Butyl Ether
Concen: 0.081 ppbv
RT: 5.21 min Scan# 1283
Delta R.T. 0.03 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

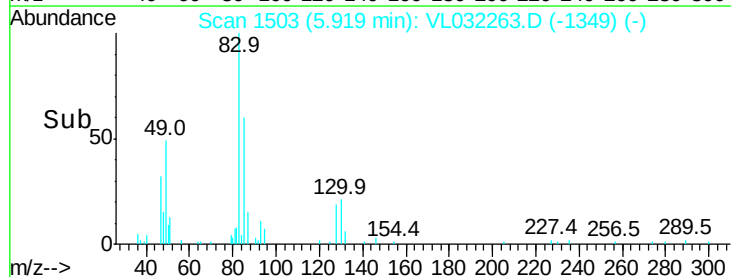
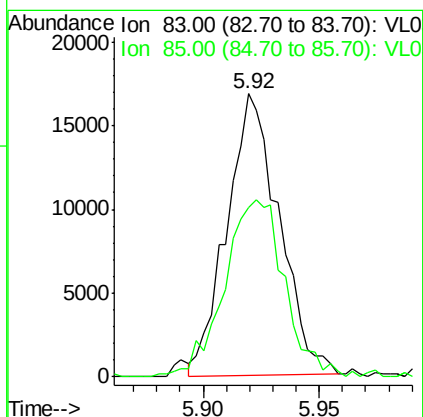
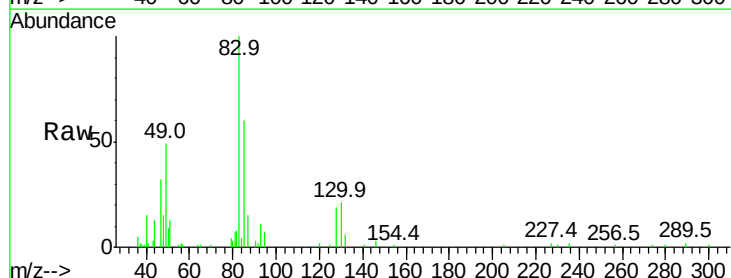
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

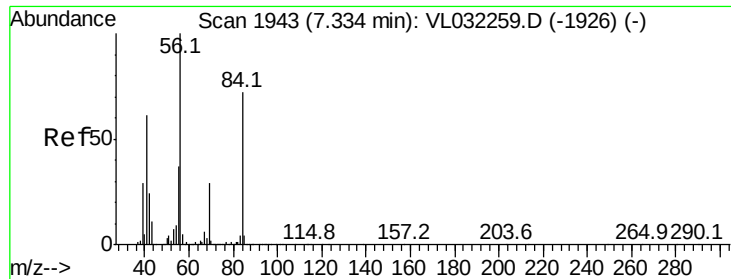
Tgt Ion: 73 Resp: 23023
Ion Ratio Lower Upper
73 100
57 25.5 19.3 28.9



#29
Chloroform
Concen: 0.094 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.01 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion: 83 Resp: 26349
Ion Ratio Lower Upper
83 100
85 58.5 50.7 76.1

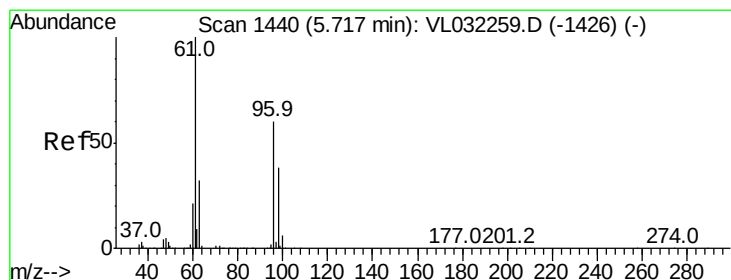
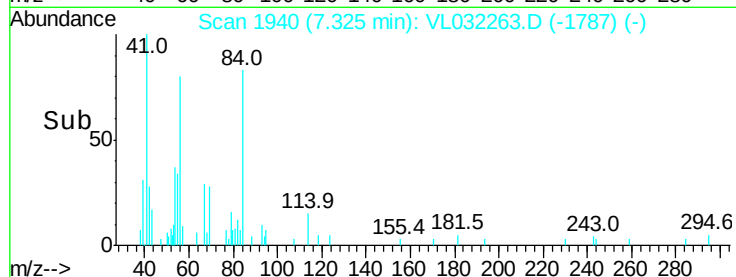
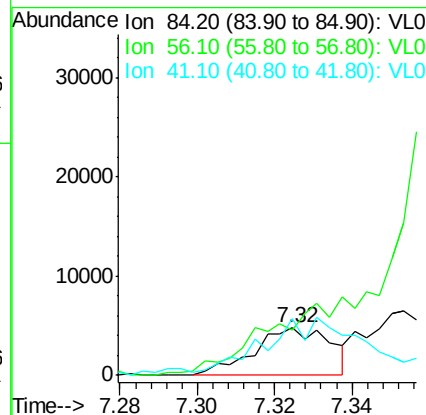
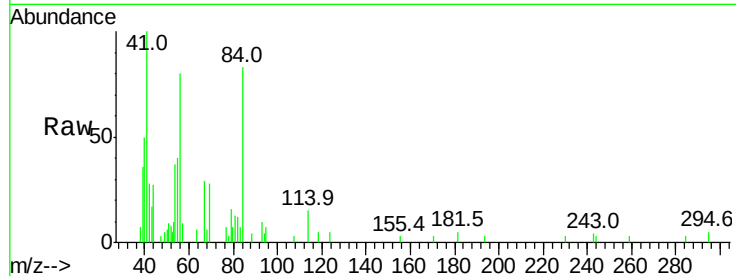




#30
Cyclohexane
Concen: 0.041 ppbv
RT: 7.32 min Scan# 1940
Delta R.T. -0.01 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

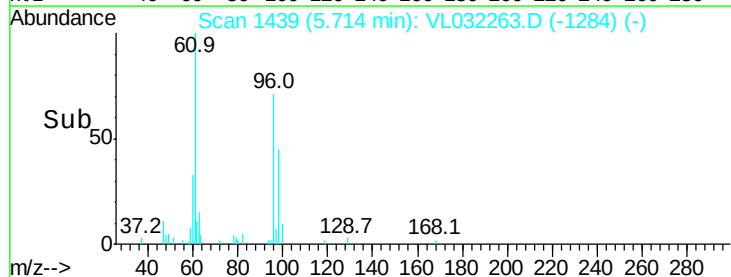
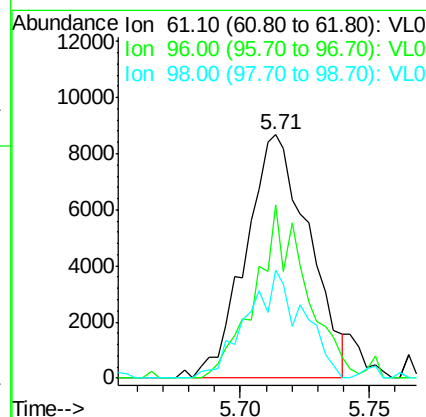
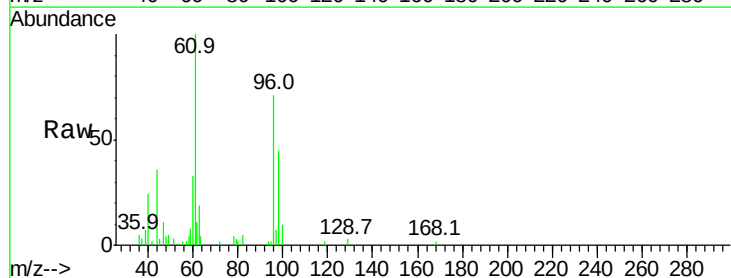
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

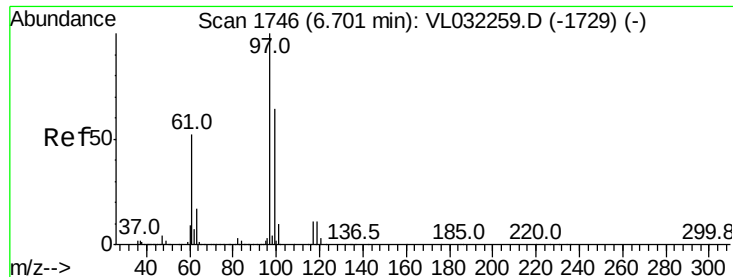
Tgt Ion: 84 Resp: 6578
Ion Ratio Lower Upper
84 100
56 0.0 115.6 173.4#
41 179.6 68.7 103.1#



#31
cis-1,2-Dichloroethene
Concen: 0.082 ppbv
RT: 5.71 min Scan# 1439
Delta R.T. -0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion: 61 Resp: 14807
Ion Ratio Lower Upper
61 100
96 71.3 47.9 71.9
98 44.5 30.5 45.7





#32

1,1,1-Trichloroethane

Concen: 0.043 ppbv

RT: 6.69 min Scan# 1744

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

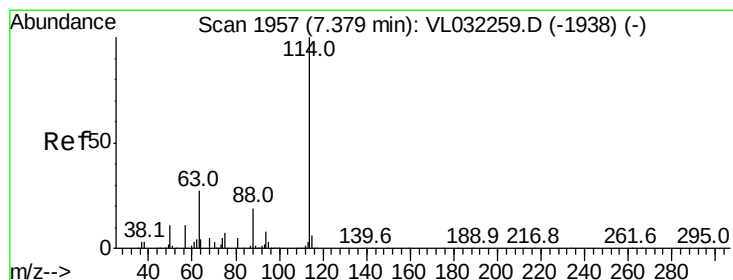
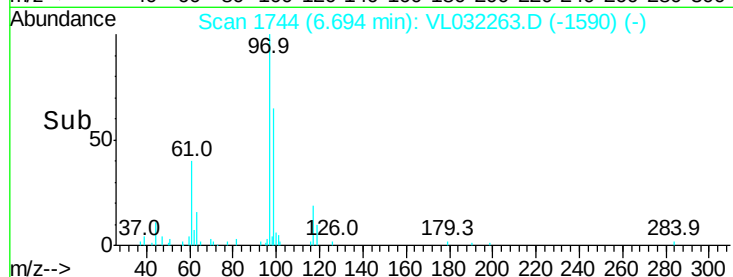
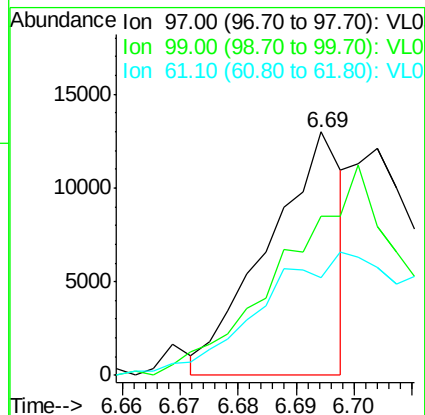
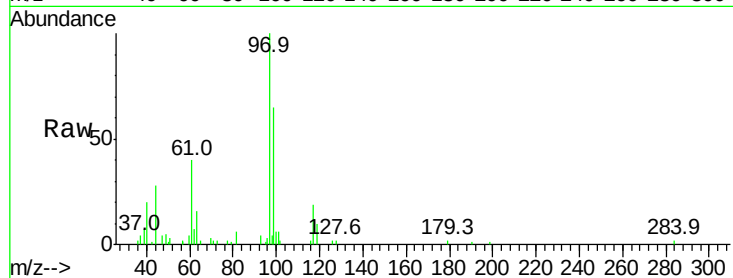
Tgt Ion: 97 Resp: 11574

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.6#

61 0.0 41.2 61.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.37 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

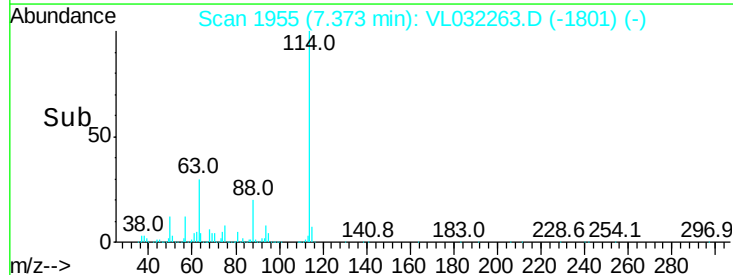
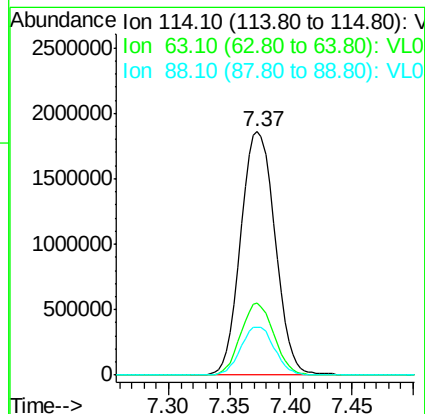
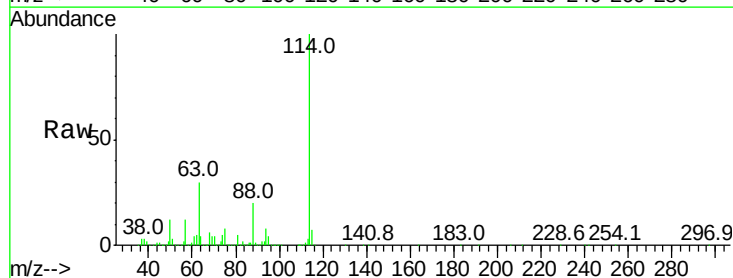
Tgt Ion: 114 Resp: 3620249

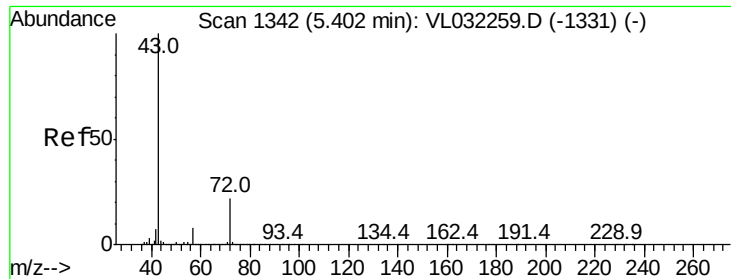
Ion Ratio Lower Upper

114 100

63 28.8 22.6 33.8

88 19.4 15.2 22.8

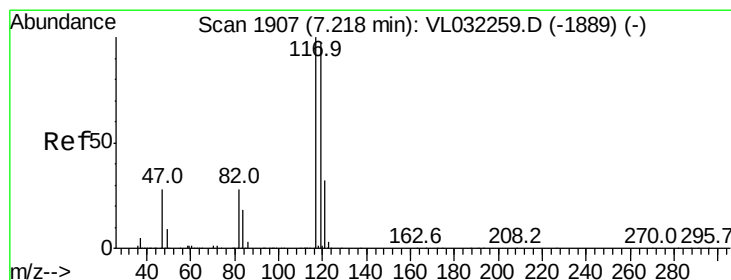
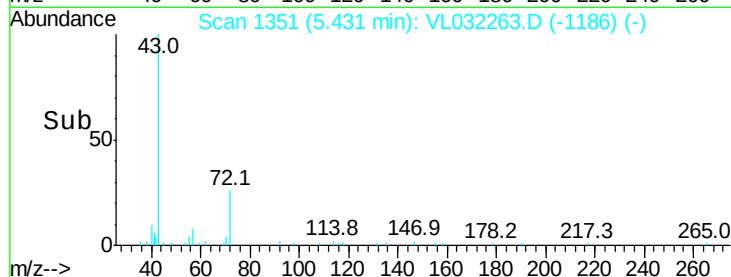
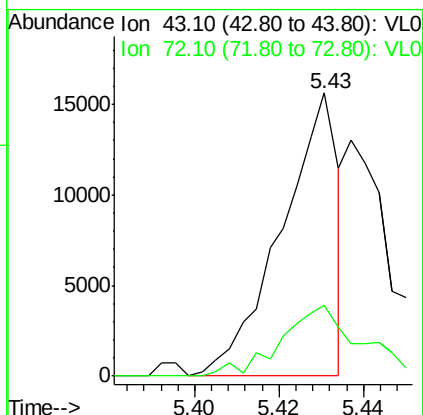
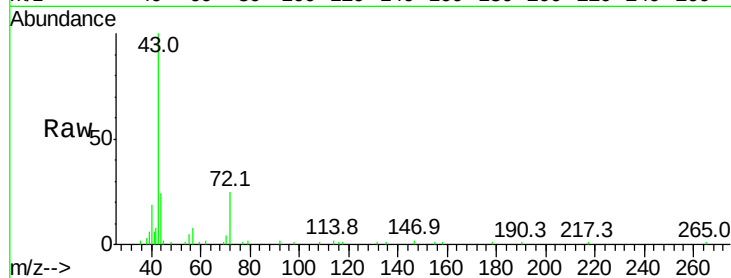




#34
2-Butanone
Concen: 0.059 ppbv
RT: 5.43 min Scan# 1351
Delta R.T. 0.03 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

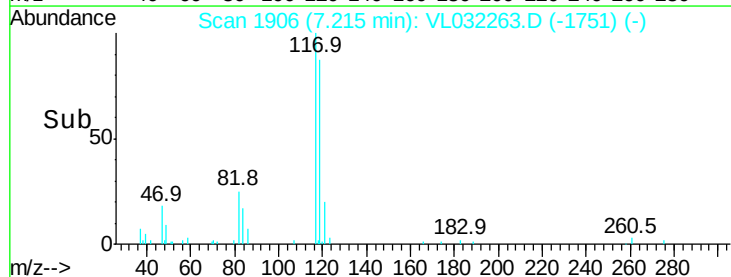
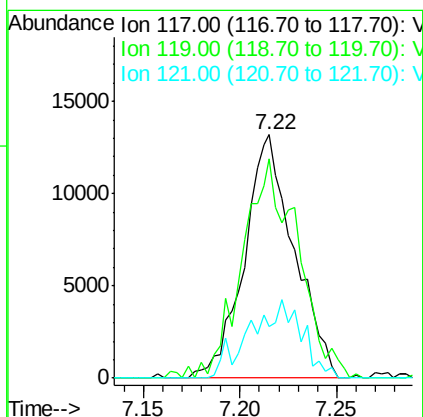
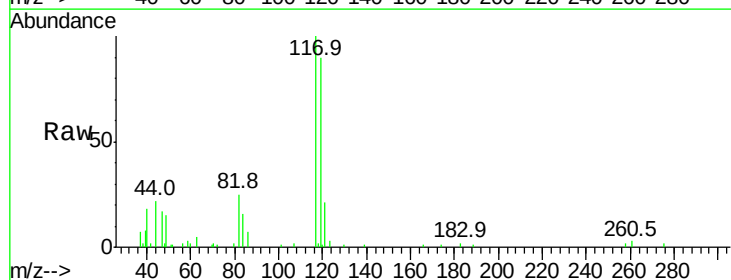
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

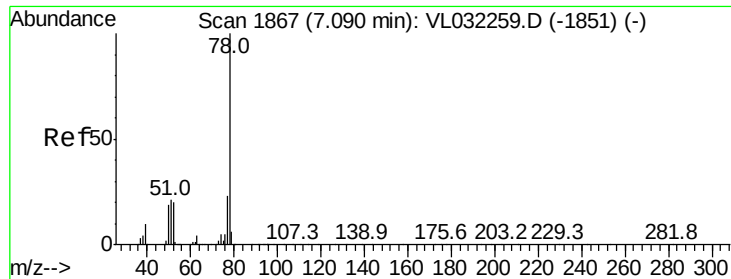
Tgt Ion: 43 Resp: 14552
Ion Ratio Lower Upper
43 100
72 41.3 17.7 26.5#



#35
Carbon Tetrachloride
Concen: 0.097 ppbv
RT: 7.22 min Scan# 1906
Delta R.T. -0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion: 117 Resp: 23664
Ion Ratio Lower Upper
117 100
119 86.8 77.4 116.0
121 21.0 25.4 38.2#

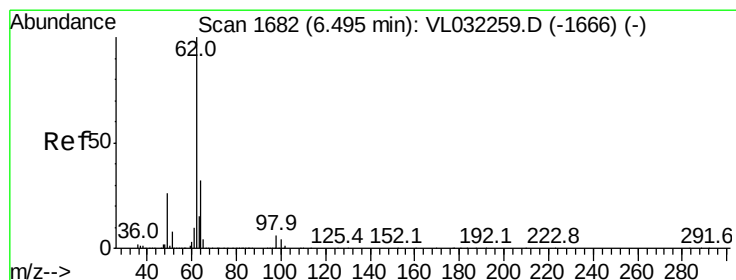
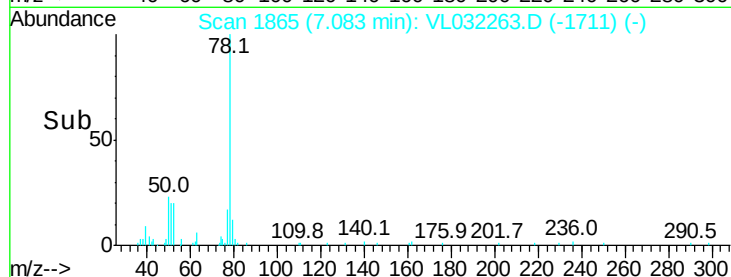
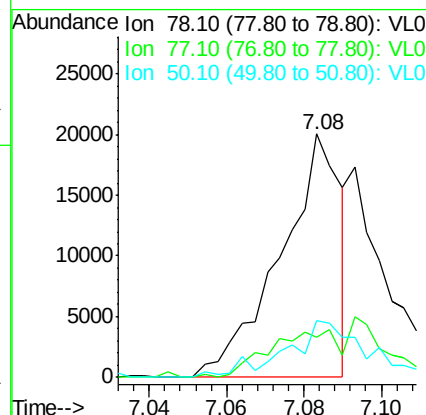
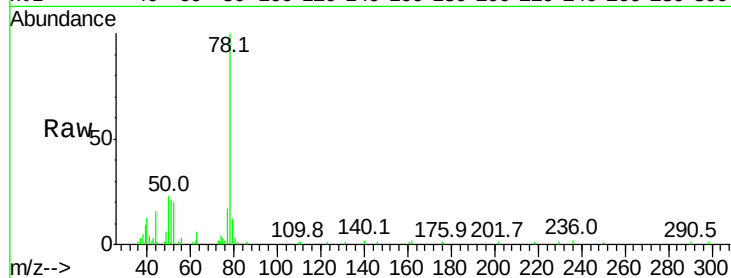




#36
Benzene
Concen: 0.060 ppbv
RT: 7.08 min Scan# 1865
Delta R.T. -0.01 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

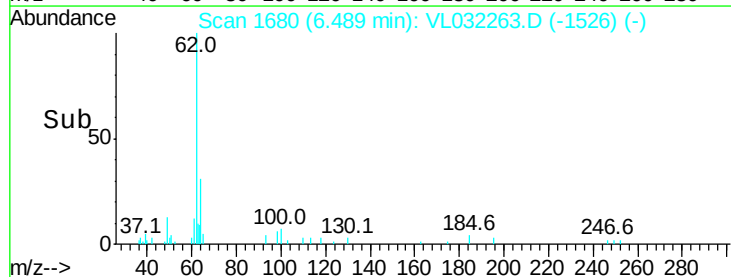
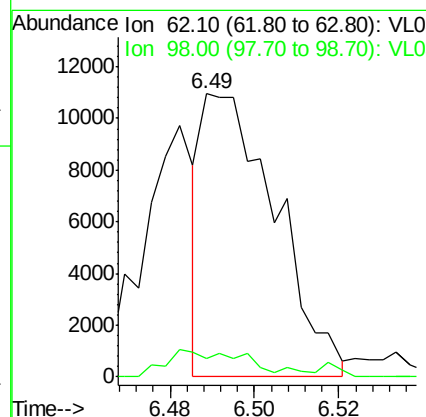
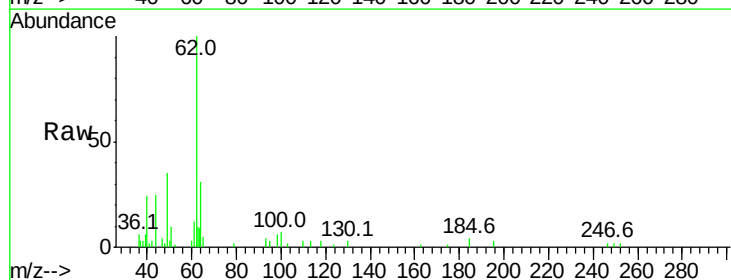
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

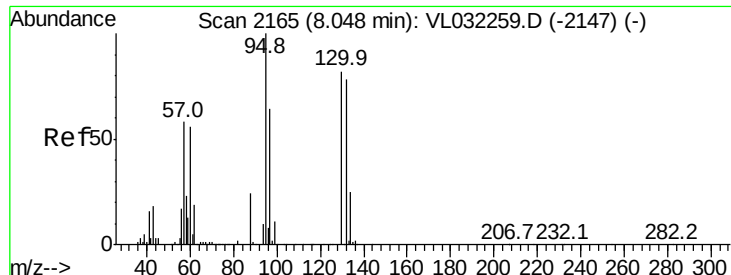
Tgt Ion: 78 Resp: 21588
Ion Ratio Lower Upper
78 100
77 16.5 18.6 27.8#
50 23.2 15.0 22.6#



#37
1,2-Dichloroethane
Concen: 0.068 ppbv
RT: 6.49 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion: 62 Resp: 13298
Ion Ratio Lower Upper
62 100
98 0.0 4.9 7.3#





#38

Trichloroethene

Concen: 0.052 ppbv

RT: 8.04 min Scan# 2163

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:130 Resp: 6359

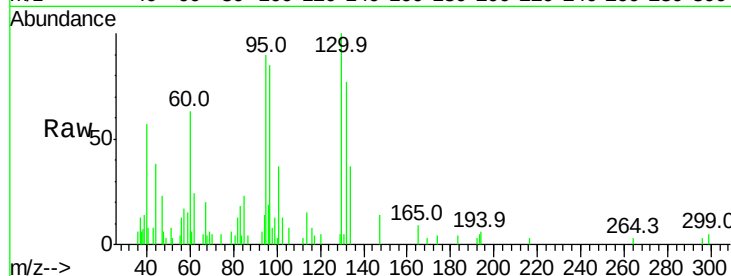
Ion Ratio Lower Upper

130 100

95 68.2 97.1 145.7#

132 42.1 75.6 113.4#

97 47.3 62.1 93.1#

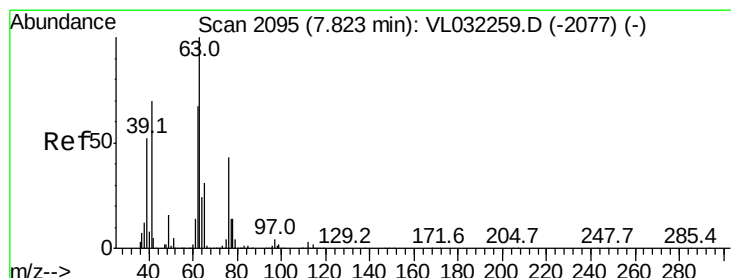
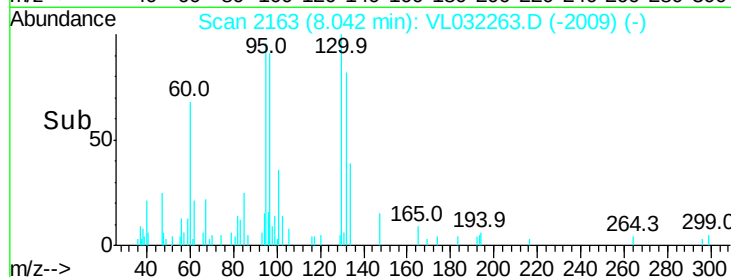
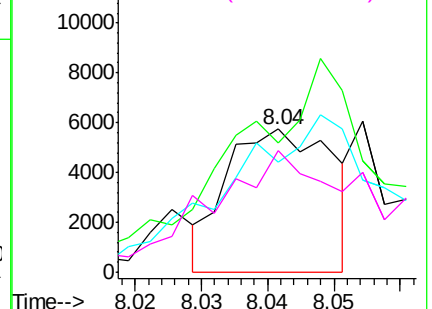


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.081 ppbv

RT: 7.82 min Scan# 2093

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

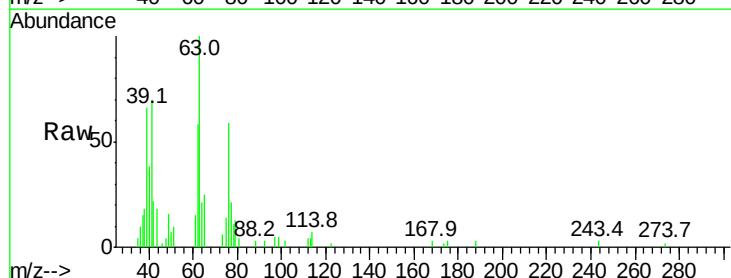
Tgt Ion: 63 Resp: 11609

Ion Ratio Lower Upper

63 100

41 64.8 55.8 83.6

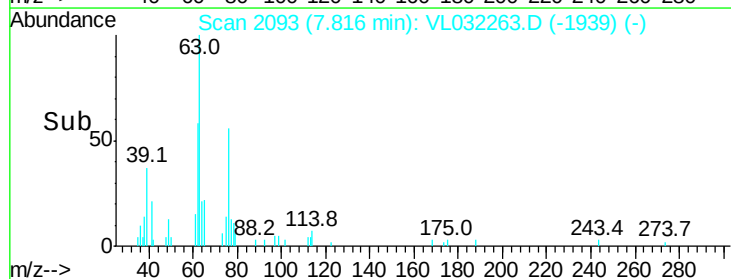
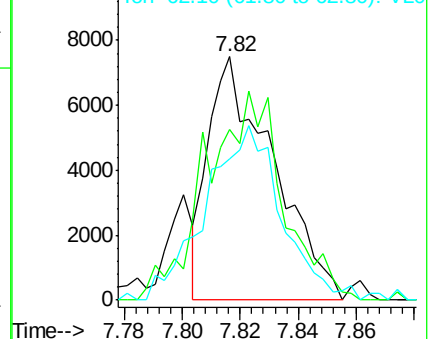
62 55.7 53.8 80.8

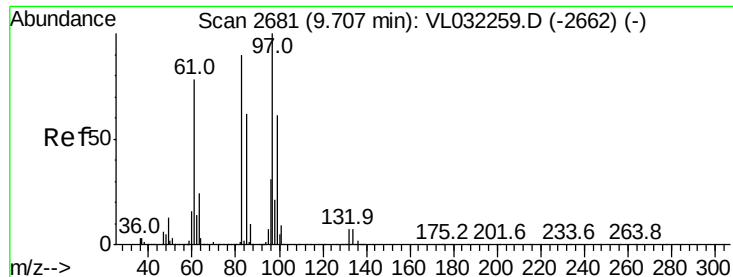


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

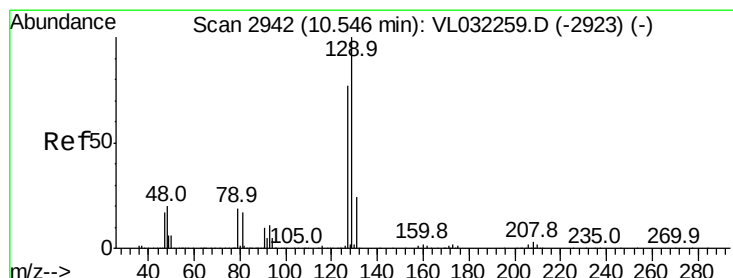
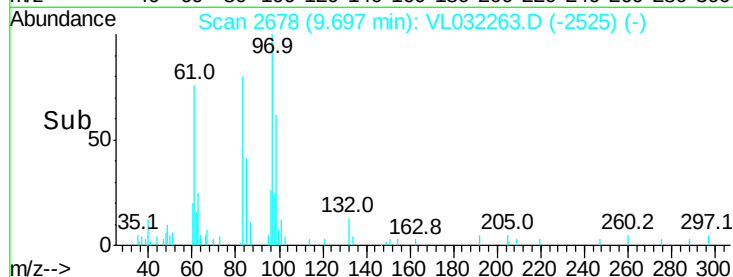
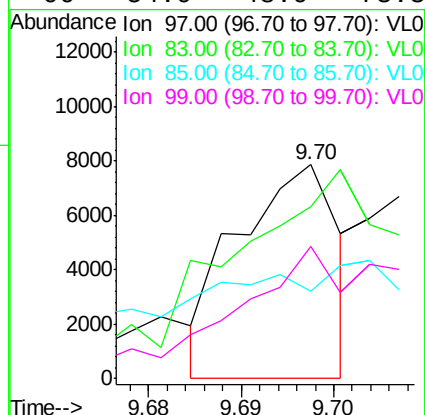
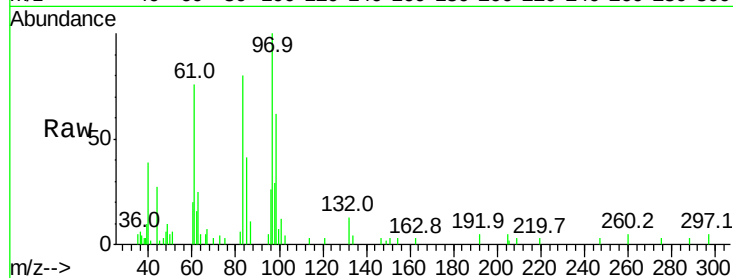




#47
 1,1,2-Trichloroethane
 Concen: 0.037 ppbv
 RT: 9.70 min Scan# 2678
 Delta R.T. -0.01 min
 Lab File: VL032263.D
 Acq: 18 Jul 2018 11:55

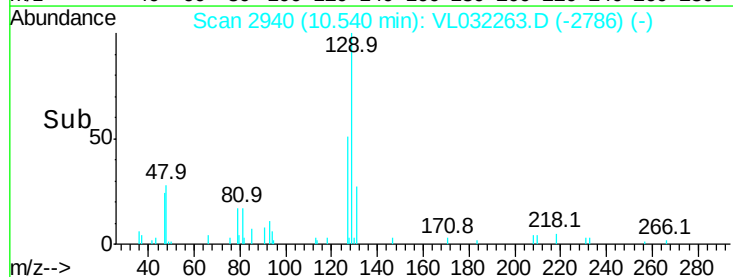
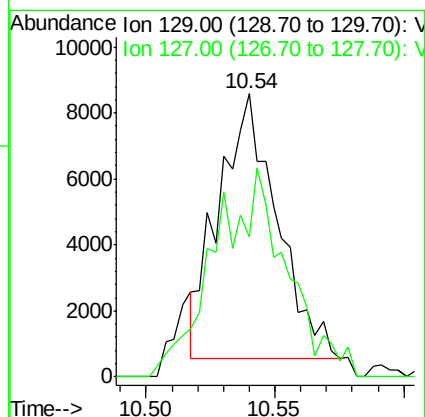
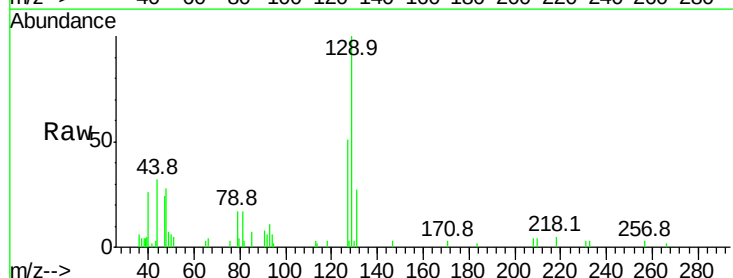
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

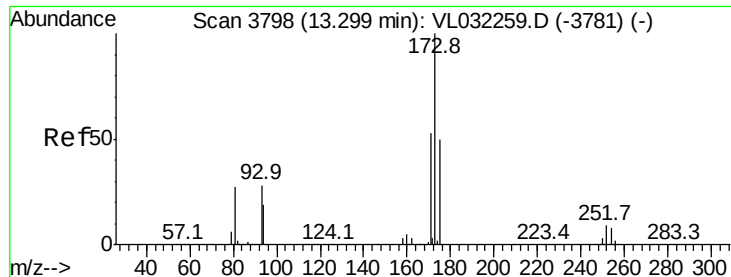
Tgt Ion: 97 Resp: 5945
 Ion Ratio Lower Upper
 97 100
 83 33.2 72.3 108.5#
 85 4.8 49.5 74.3#
 99 54.9 48.9 73.3



#48
 Dibromochloromethane
 Concen: 0.053 ppbv
 RT: 10.54 min Scan# 2940
 Delta R.T. -0.01 min
 Lab File: VL032263.D
 Acq: 18 Jul 2018 11:55

Tgt Ion: 129 Resp: 12636
 Ion Ratio Lower Upper
 129 100
 127 99.1 39.1 117.3





#49

Bromoform

Concen: 0.053 ppbv

RT: 13.29 min Scan# 3795

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

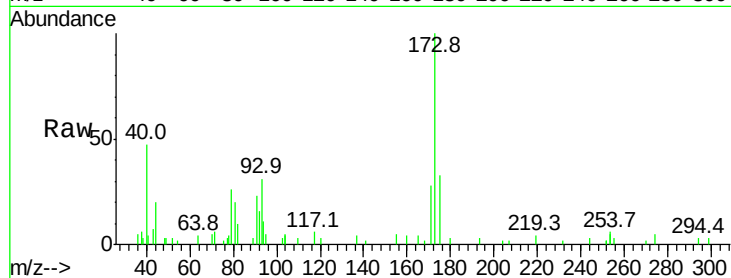
Tgt Ion:173 Resp: 10003

Ion Ratio Lower Upper

173 100

175 77.6 39.0 58.6#

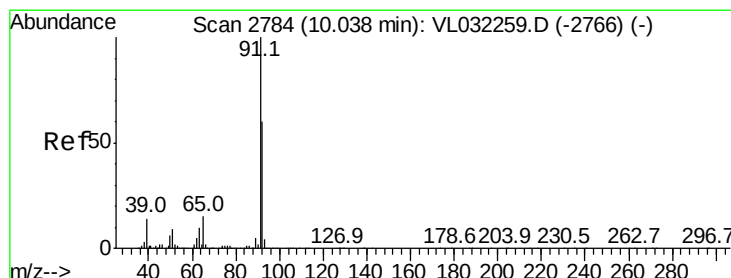
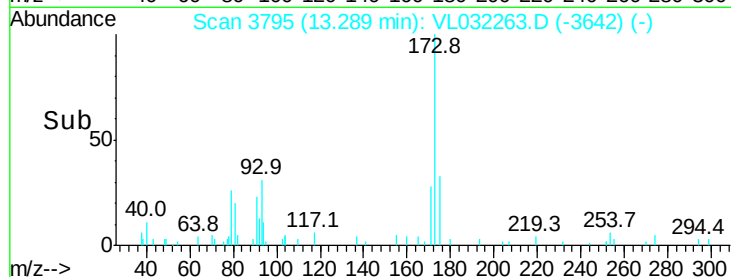
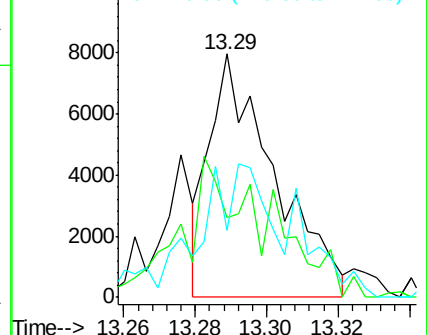
171 79.4 41.6 62.4#



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



#53

Toluene

Concen: 0.039 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. -0.01 min

Lab File: VL032263.D

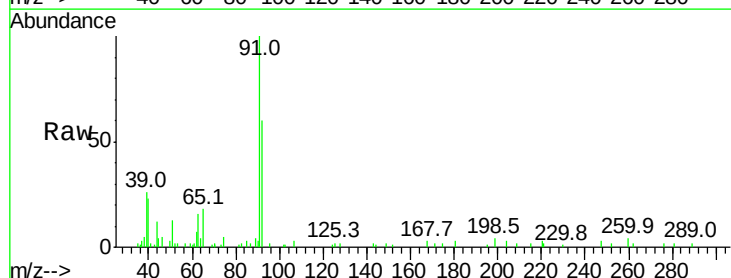
Acq: 18 Jul 2018 11:55

Tgt Ion: 91 Resp: 16500

Ion Ratio Lower Upper

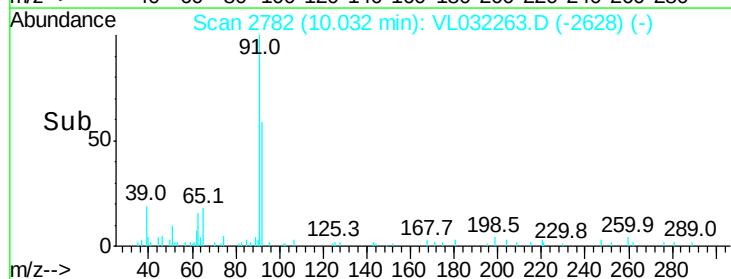
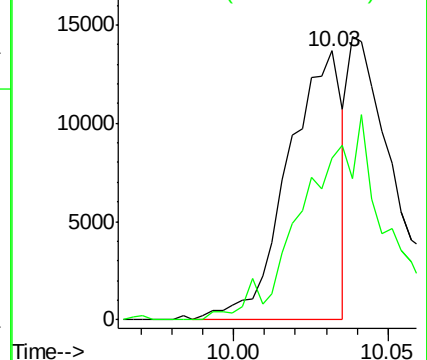
91 100

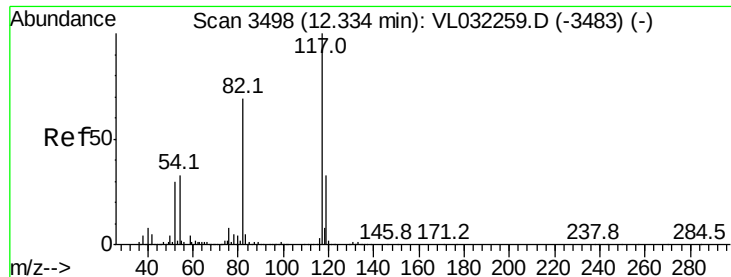
92 0.0 48.6 72.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

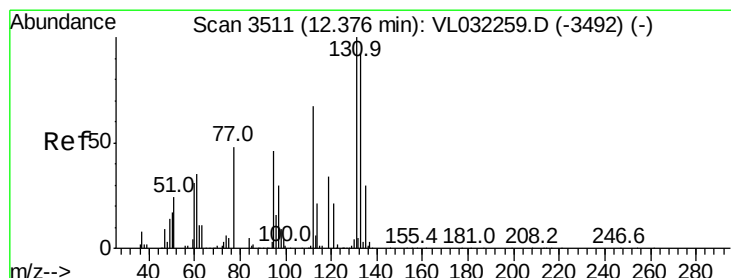
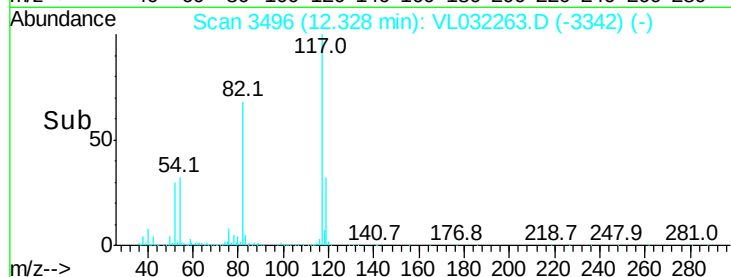
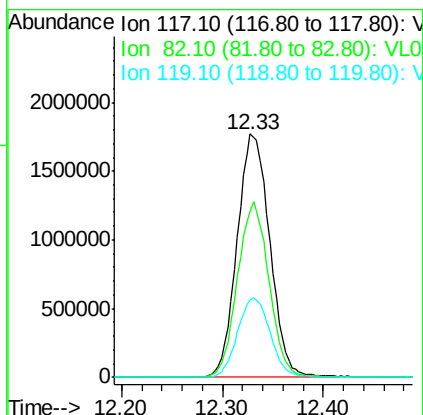
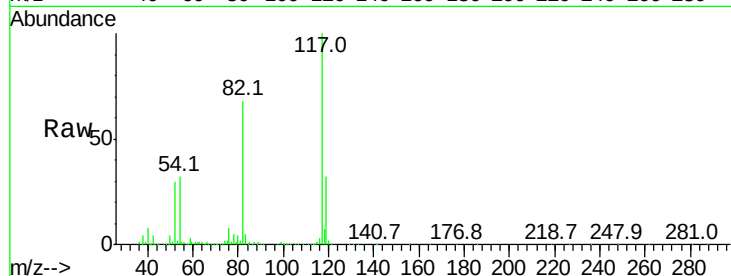




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3496
Delta R.T. -0.01 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

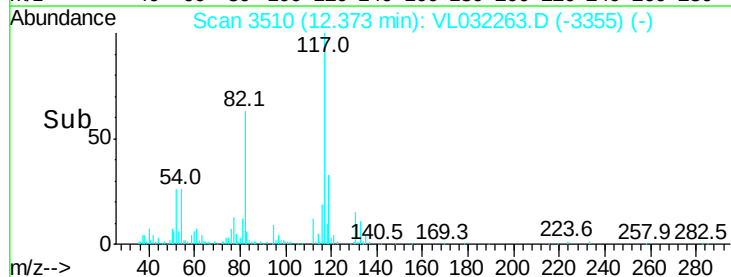
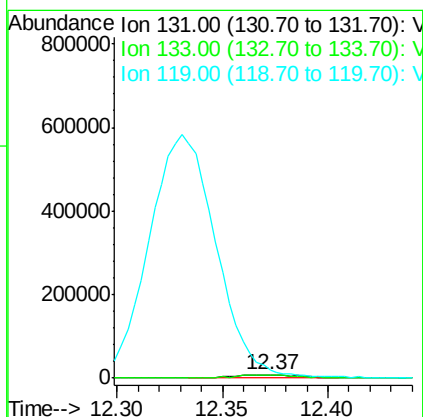
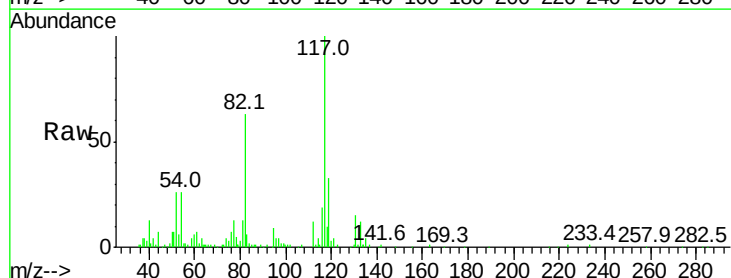
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

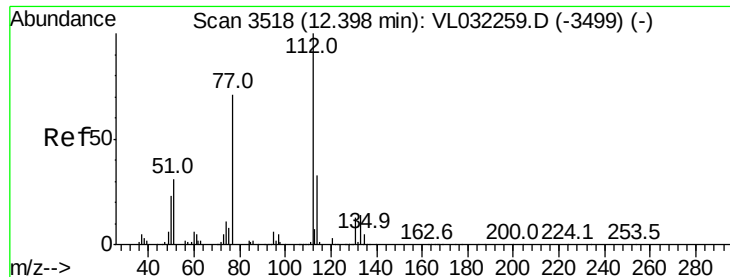
Tgt Ion:117 Resp: 3978432
Ion Ratio Lower Upper
117 100
82 69.9 53.9 80.9
119 32.7 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.101 ppbv
RT: 12.37 min Scan# 3510
Delta R.T. -0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion:131 Resp: 17536
Ion Ratio Lower Upper
131 100
133 94.0 75.4 113.0
119 7430.2 49.4 74.2#

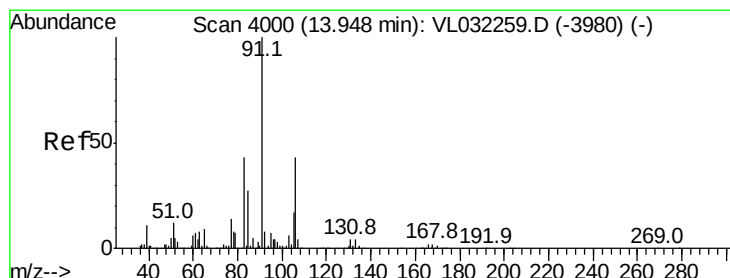
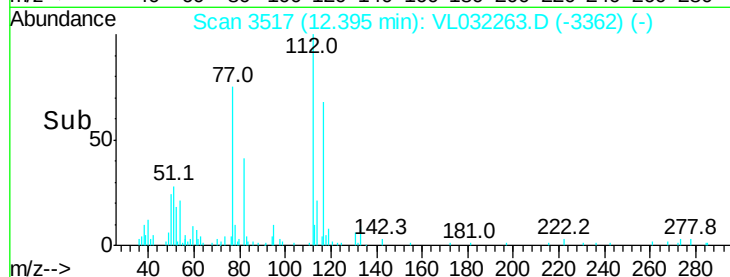
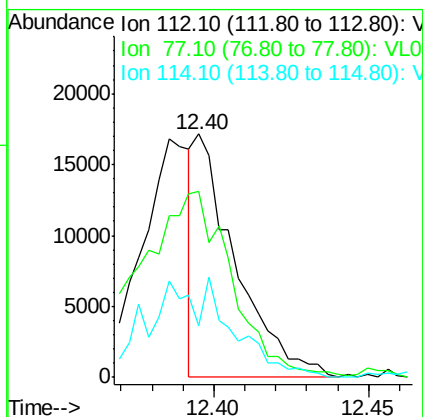
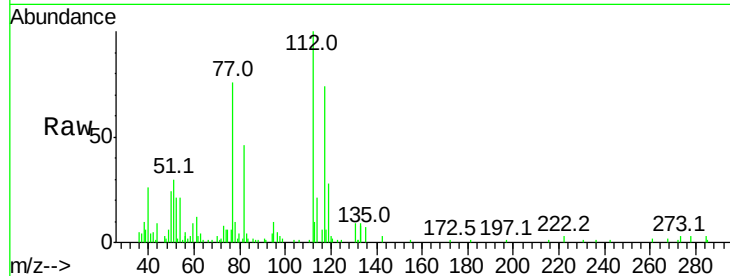




#57
Chlorobenzene
Concen: 0.047 ppbv
RT: 12.40 min Scan# 3517
Delta R.T. -0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

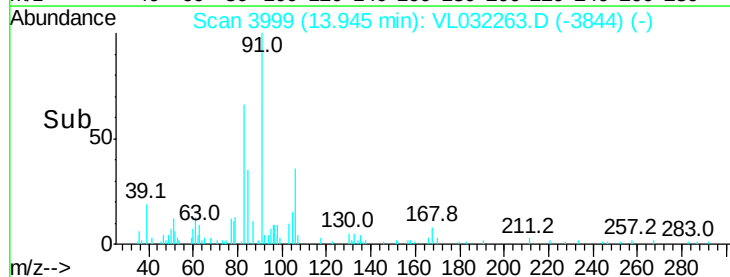
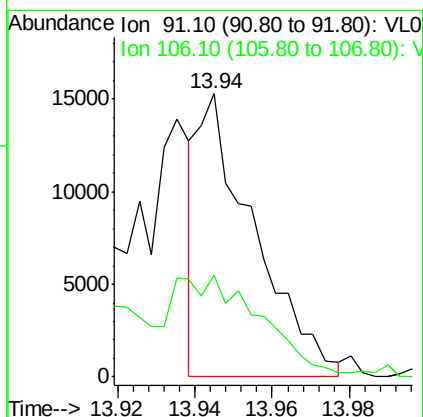
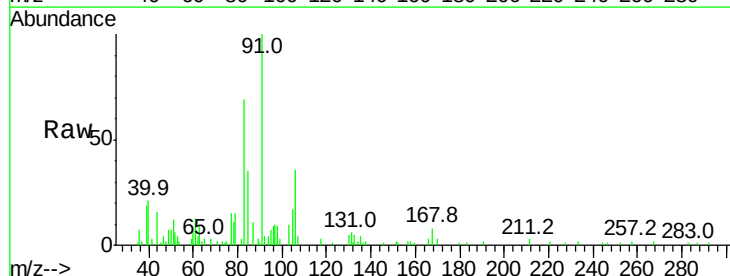
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

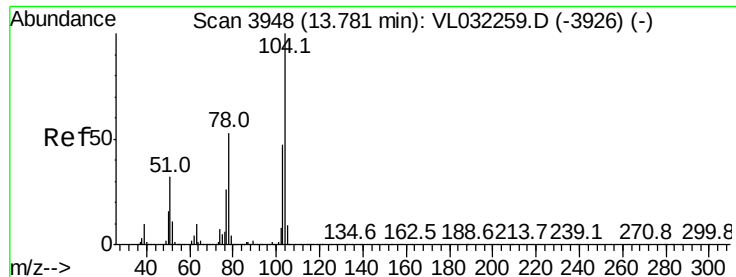
Tgt Ion: 112 Resp: 15734
Ion Ratio Lower Upper
112 100
77 75.1 58.2 87.4
114 21.4 29.5 36.1#



#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion: 91 Resp: 15343
Ion Ratio Lower Upper
91 100
106 82.1 21.7 65.1#





#61

Styrene

Concen: 0.034 ppbv

RT: 13.77 min Scan# 3946

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

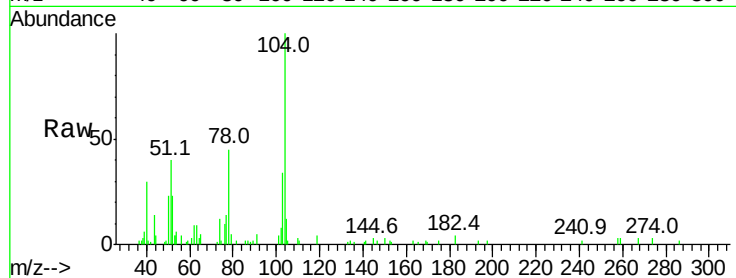
Tgt Ion:104 Resp: 12043

Ion Ratio Lower Upper

104 100

78 96.0 43.2 64.8#

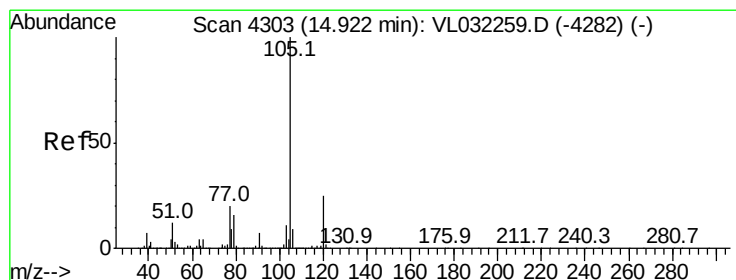
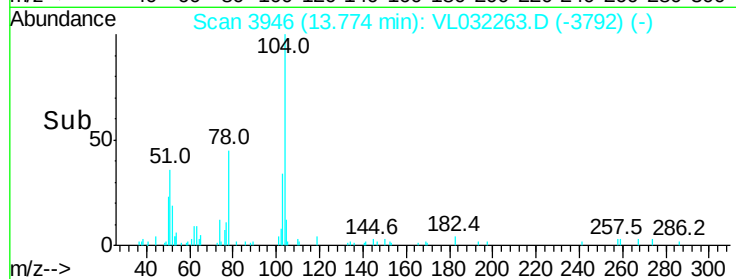
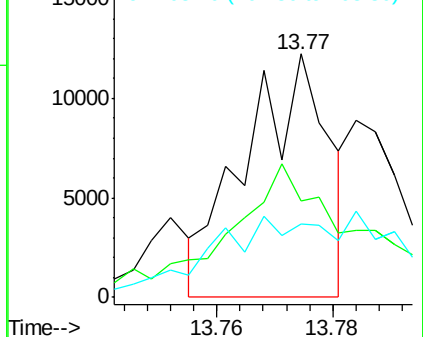
103 0.0 37.8 56.6#



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: 0.034 ppbv

RT: 14.91 min Scan# 4299

Delta R.T. -0.01 min

Lab File: VL032263.D

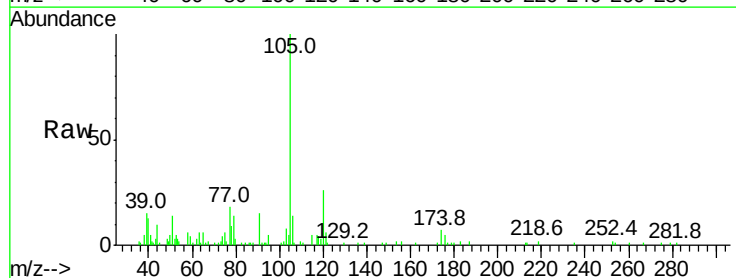
Acq: 18 Jul 2018 11:55

Tgt Ion:105 Resp: 22645

Ion Ratio Lower Upper

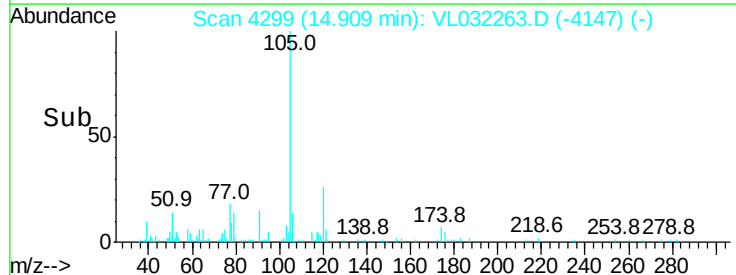
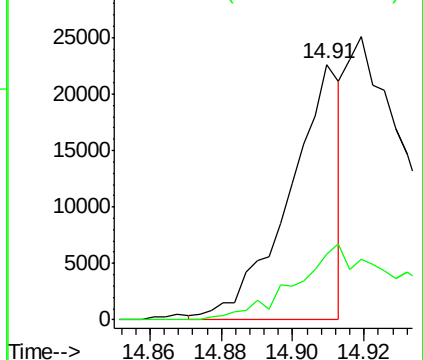
105 100

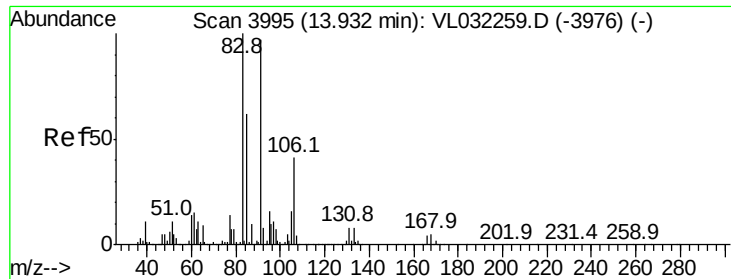
120 60.8 20.2 30.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

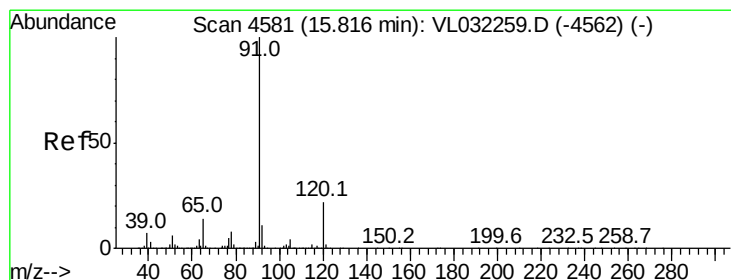
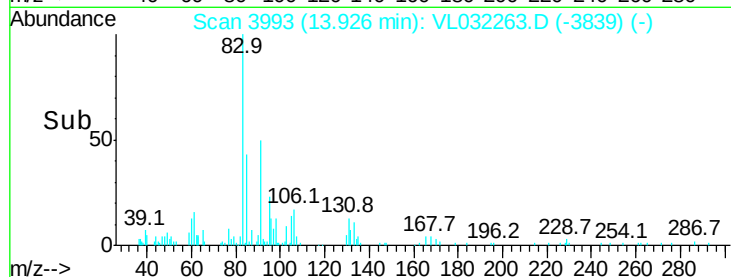
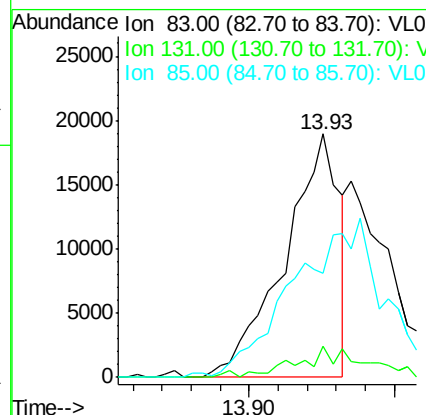
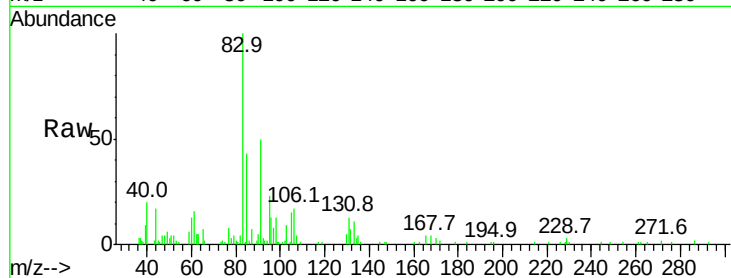




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.065 ppbv
 RT: 13.93 min Scan# 3993
 Delta R.T. -0.01 min
 Lab File: VL032263.D
 Acq: 18 Jul 2018 11:55

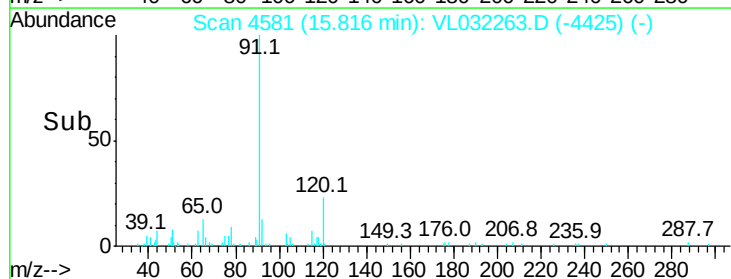
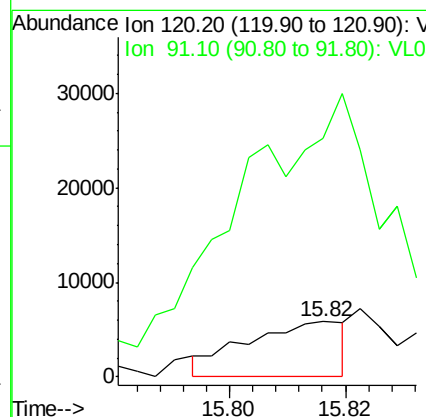
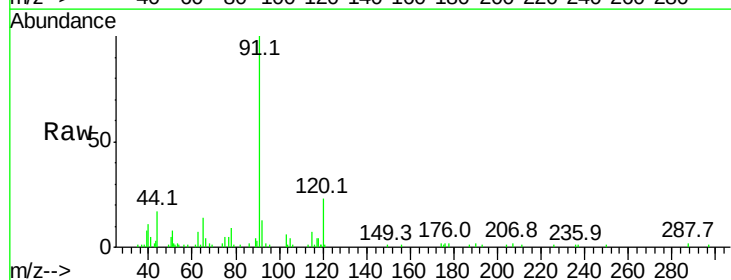
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

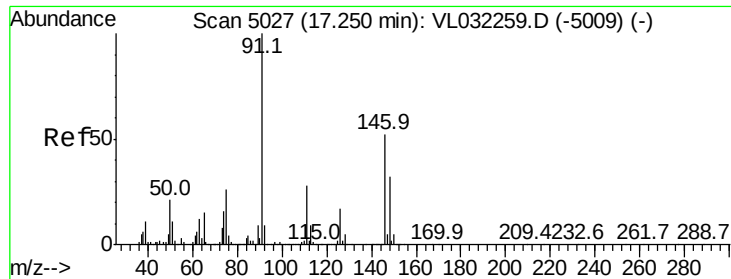
Tgt Ion: 83 Resp: 24731
 Ion Ratio Lower Upper
 83 100
 131 16.7 4.2 12.6#
 85 0.0 32.2 96.6#



#64
 n-propylbenzene
 Concen: 0.042 ppbv
 RT: 15.82 min Scan# 4581
 Delta R.T. 0.00 min
 Lab File: VL032263.D
 Acq: 18 Jul 2018 11:55

Tgt Ion: 120 Resp: 6964
 Ion Ratio Lower Upper
 120 100
 91 0.0 384.4 576.6#

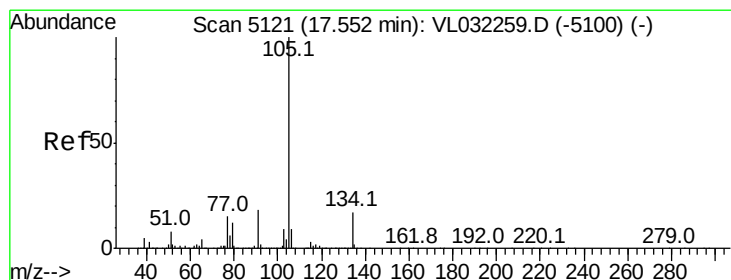
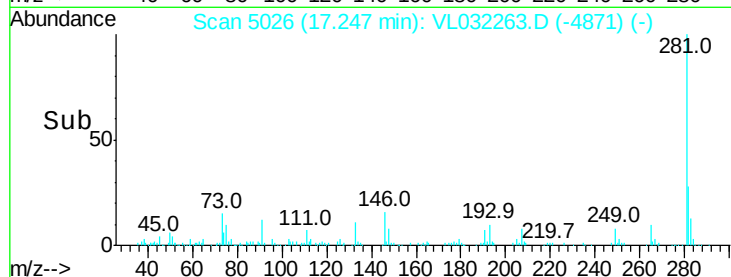
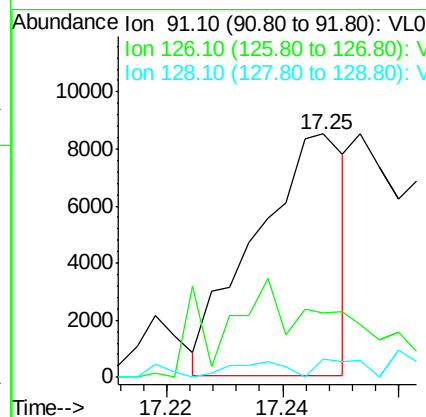
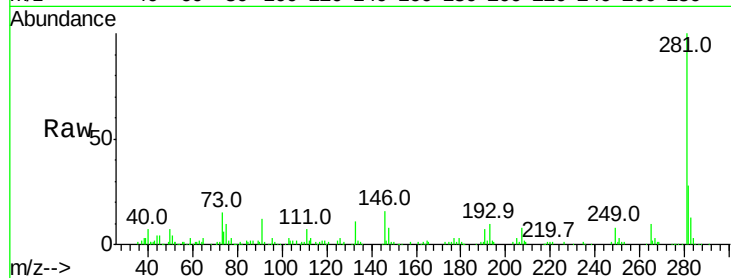




#66
Benzyl Chloride
Concen: 0.032 ppbv
RT: 17.25 min Scan# 5026
Delta R.T. -0.00 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

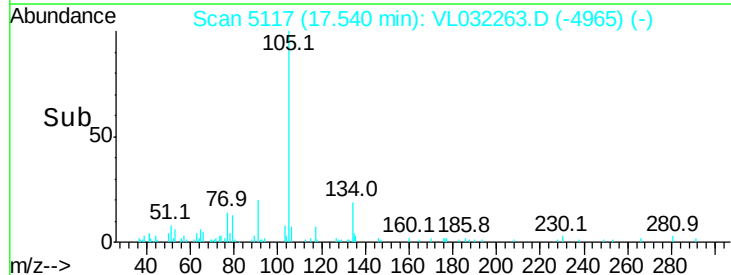
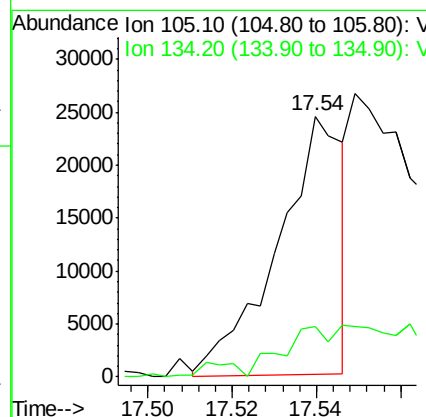
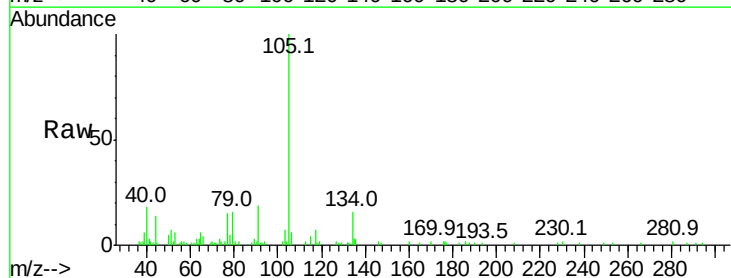
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

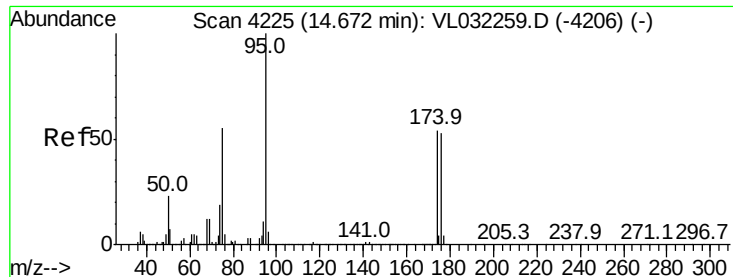
Tgt Ion: 91 Resp: 9051
Ion Ratio Lower Upper
91 100
126 62.5 13.4 20.2#
128 0.0 4.3 6.5#



#67
sec-Butylbenzene
Concen: 0.032 ppbv
RT: 17.54 min Scan# 5117
Delta R.T. -0.01 min
Lab File: VL032263.D
Acq: 18 Jul 2018 11:55

Tgt Ion: 105 Resp: 26136
Ion Ratio Lower Upper
105 100
134 0.0 14.0 21.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.892 ppbv

RT: 14.67 min Scan# 4223

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

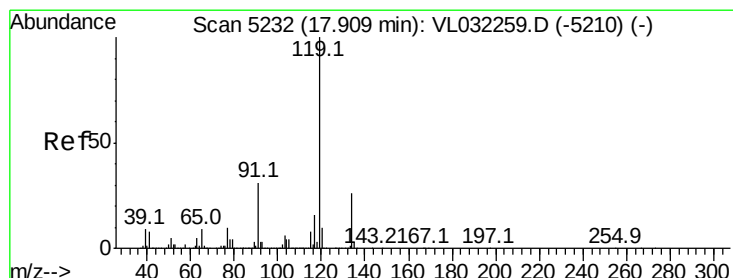
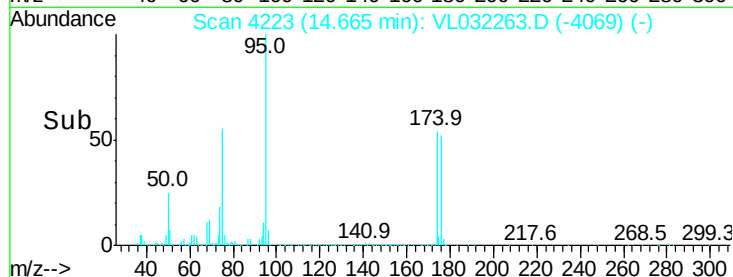
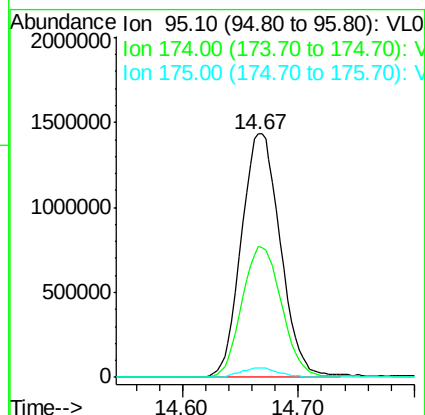
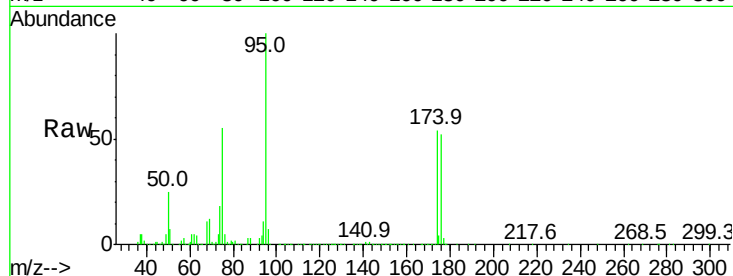
Tgt Ion: 95 Resp: 3354558

Ion Ratio Lower Upper

95 100

174 55.8 44.3 66.5

175 3.9 3.3 4.9



#69

p-Isopropyltoluene

Concen: 0.043 ppbv

RT: 17.90 min Scan# 5230

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

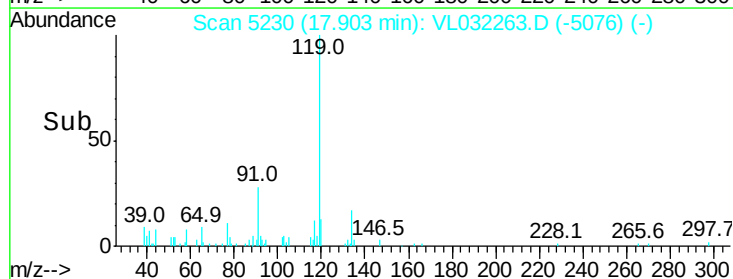
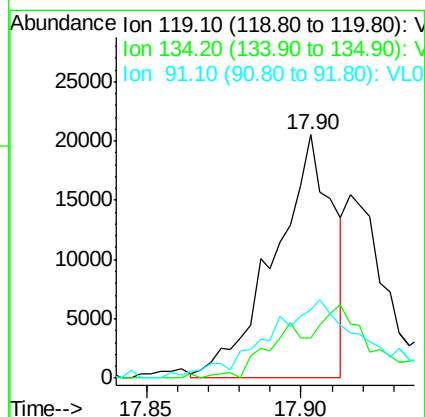
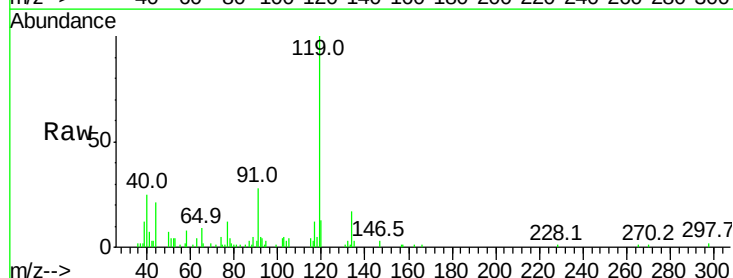
Tgt Ion: 119 Resp: 26903

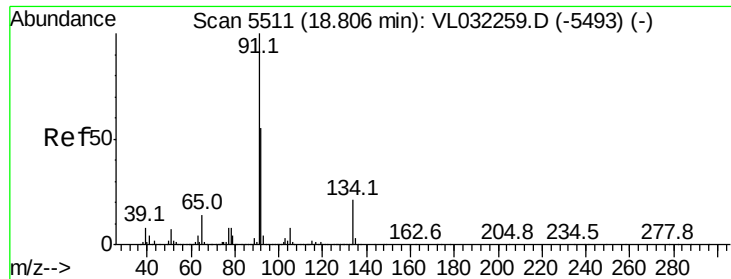
Ion Ratio Lower Upper

119 100

134 0.0 20.3 30.5#

91 58.2 24.1 36.1#





#70

n-Butylbenzene

Concen: 0.071 ppbv

RT: 18.81 min Scan# 5511

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

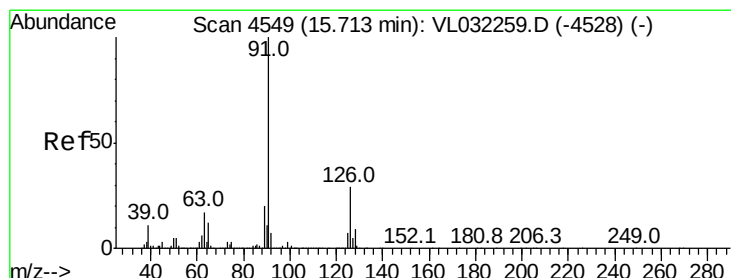
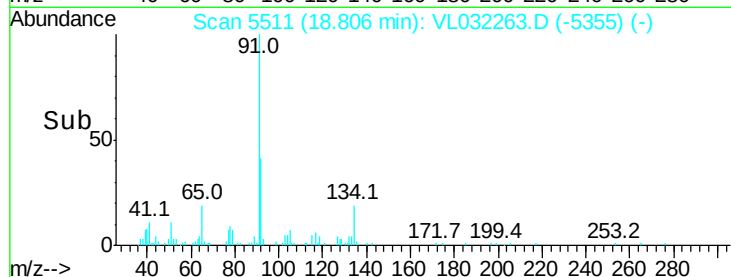
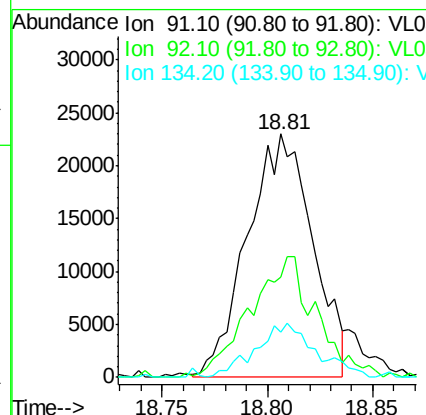
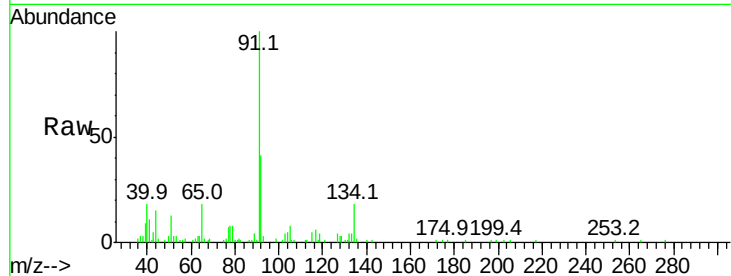
Tgt Ion: 91 Resp: 49440

Ion Ratio Lower Upper

91 100

92 50.4 43.8 65.6

134 21.0 17.1 25.7



#71

2-Chlorotoluene

Concen: 0.052 ppbv

RT: 15.71 min Scan# 4547

Delta R.T. -0.01 min

Lab File: VL032263.D

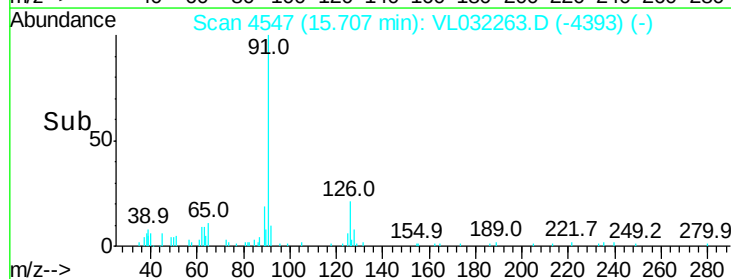
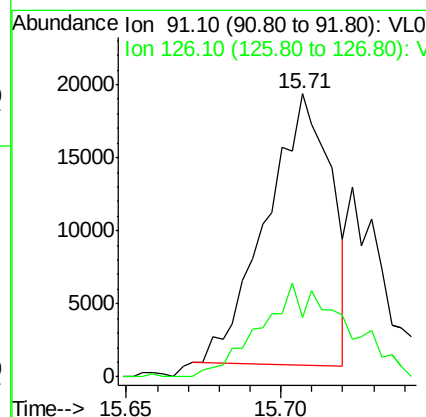
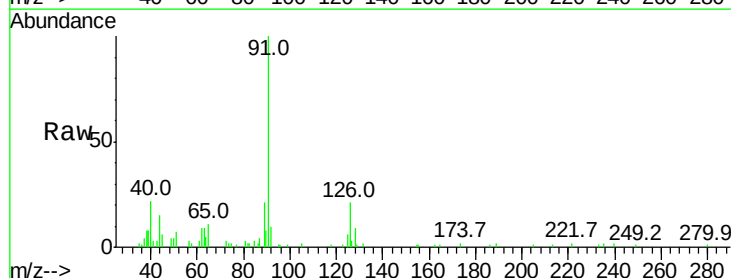
Acq: 18 Jul 2018 11:55

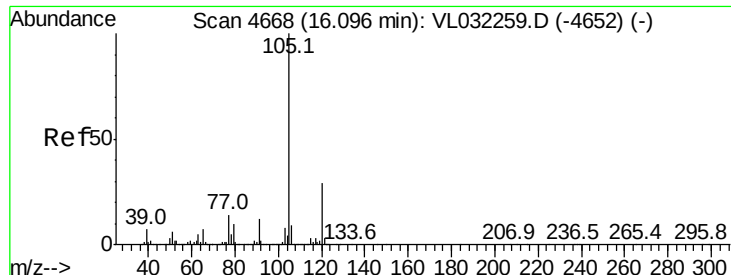
Tgt Ion: 91 Resp: 27147

Ion Ratio Lower Upper

91 100

126 46.7 11.6 46.2#





#72

4-Ethyltoluene

Concen: 0.031 ppbv

RT: 16.09 min Scan# 4665

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

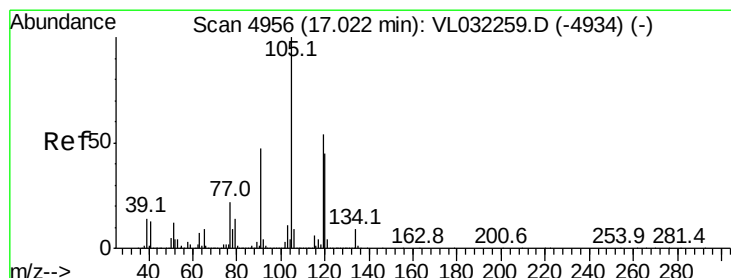
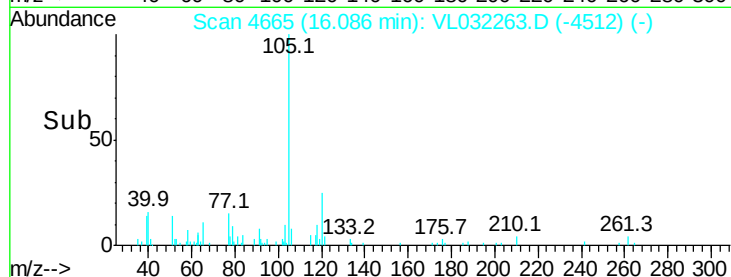
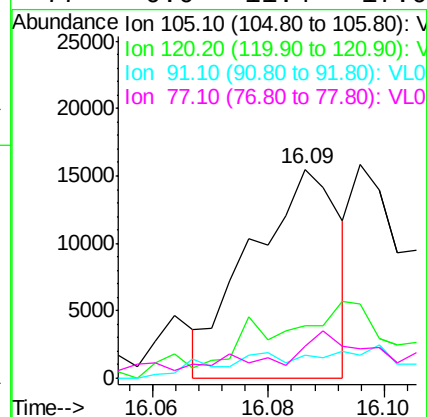
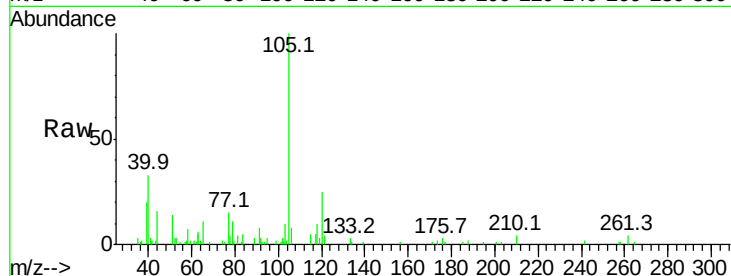
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	105	Resp:	16300
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.0	34.6#
91	0.0	10.1	15.1#
77	0.0	11.4	17.0#



#74

1,2,4-Trimethylbenzene

Concen: 0.044 ppbv

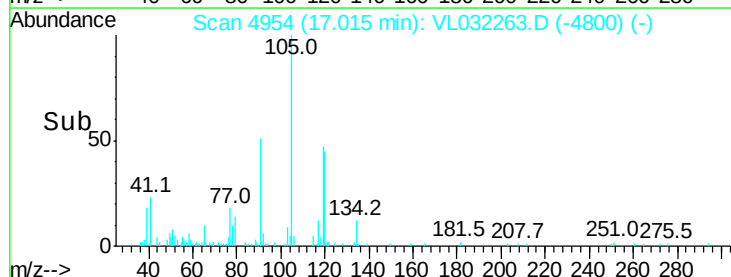
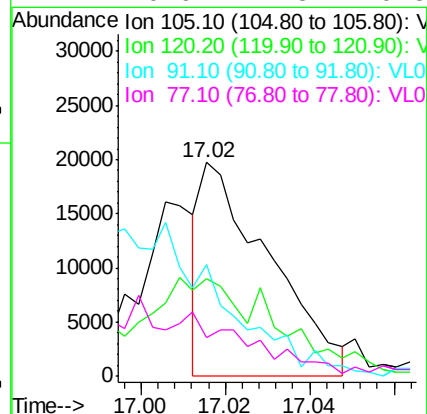
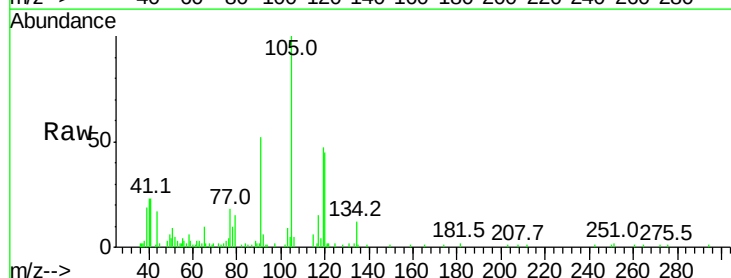
RT: 17.02 min Scan# 4954

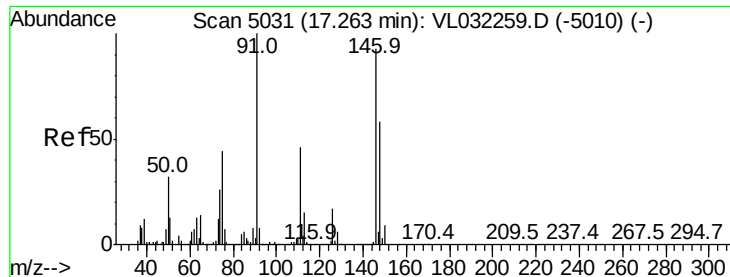
Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Tgt Ion:	105	Resp:	22125
Ion Ratio	Lower	Upper	
105	100		
120	44.3	35.8	53.6
91	55.0	38.2	57.4
77	16.9	17.5	26.3#





#75

1,3-Dichlorobenzene

Concen: 0.109 ppbv

RT: 17.25 min Scan# 5028

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

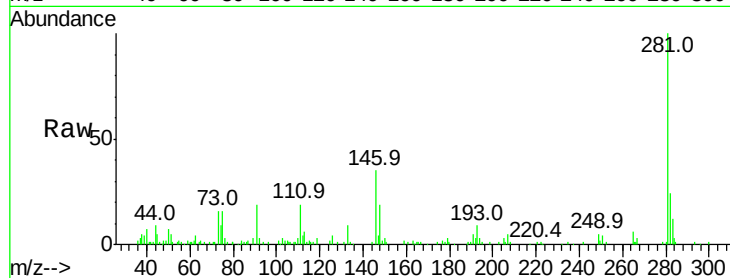
Tgt Ion:146 Resp: 32739

Ion Ratio Lower Upper

146 100

111 50.7 25.1 75.4

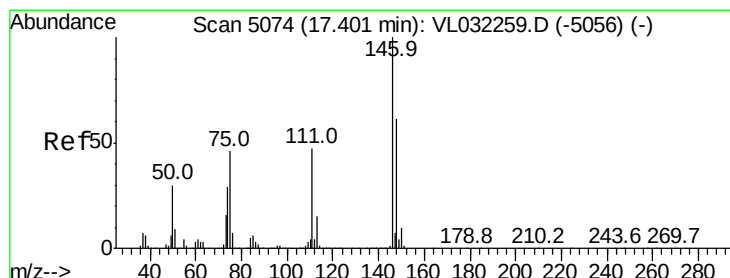
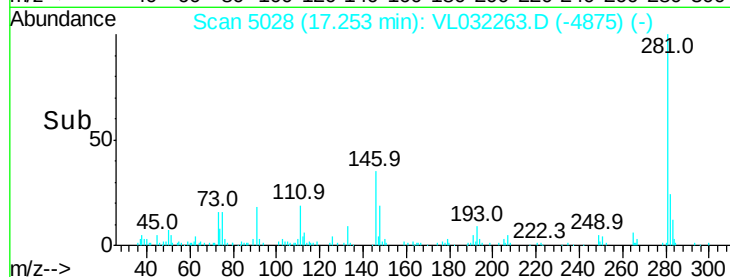
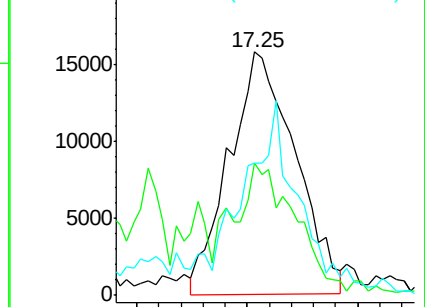
148 88.3 31.8 95.3



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: 0.043 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

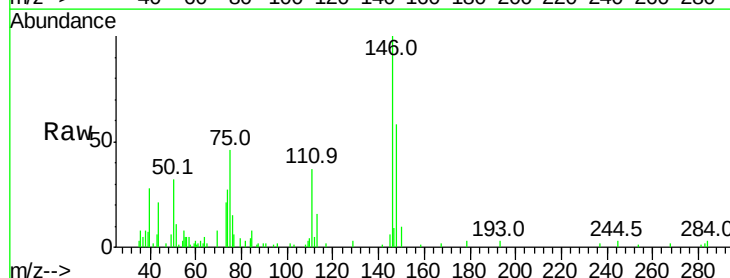
Tgt Ion:146 Resp: 12537

Ion Ratio Lower Upper

146 100

111 118.1 24.1 72.2#

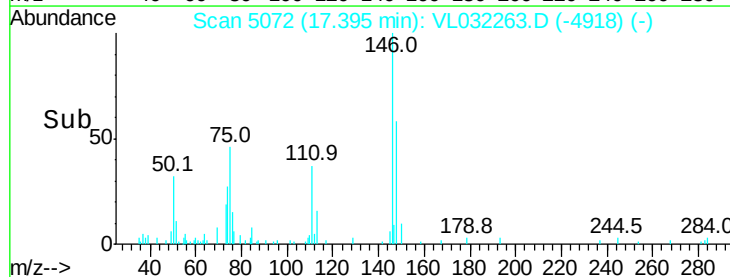
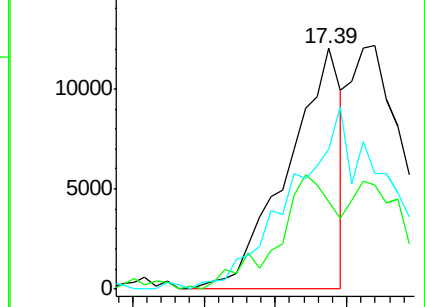
148 149.5 31.9 95.9#

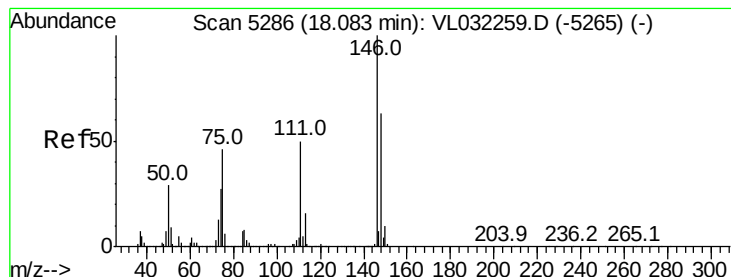


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.063 ppbv

RT: 18.09 min Scan# 5287

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

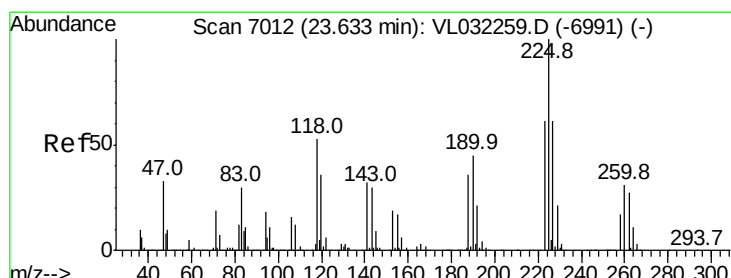
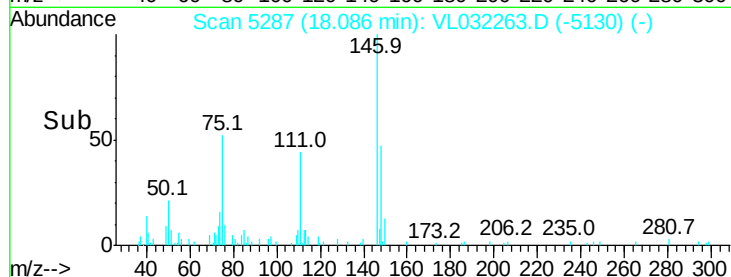
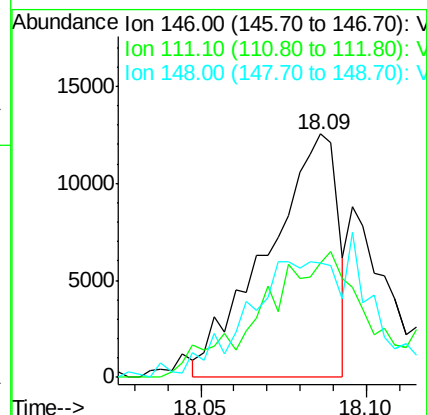
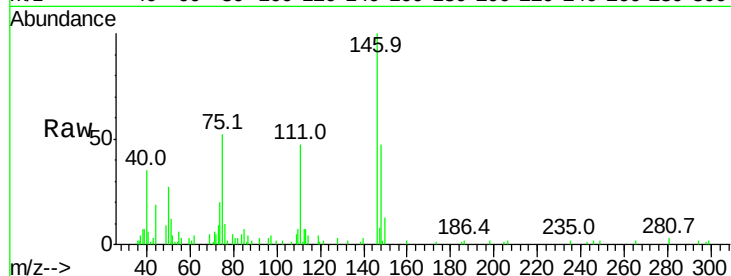
Tgt Ion:146 Resp: 18650

Ion Ratio Lower Upper

146 100

111 79.6 25.6 76.8#

148 0.0 31.9 95.5#



#78

Hexachloro-1,3-Butadiene

Concen: 0.081 ppbv

RT: 23.63 min Scan# 7010

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

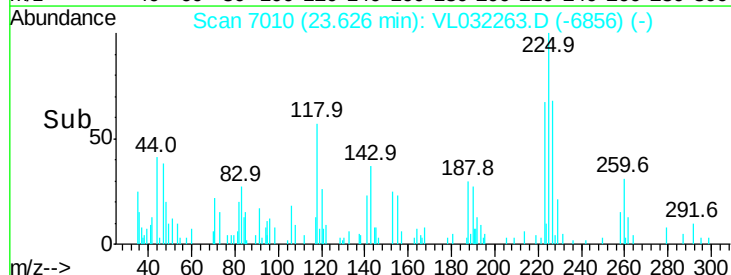
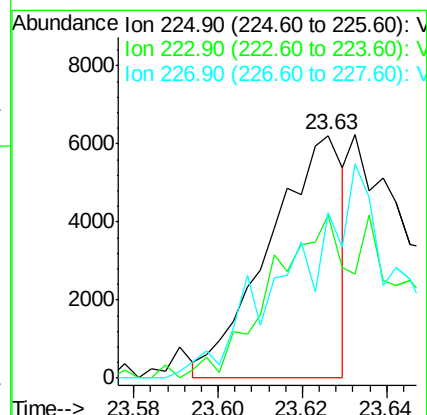
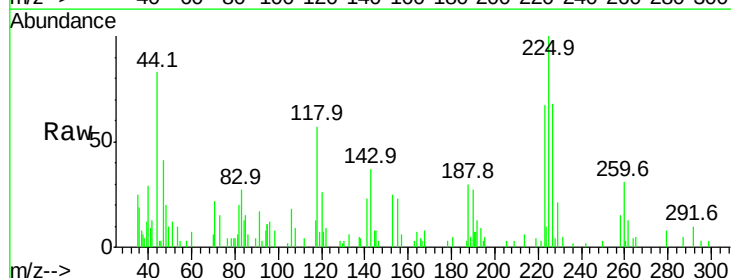
Tgt Ion:225 Resp: 7542

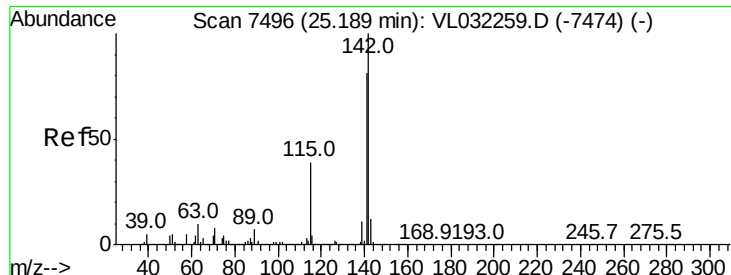
Ion Ratio Lower Upper

225 100

223 0.0 50.6 75.8#

227 0.0 51.5 77.3#





#80

Naphthalene, 2-methyl-

Concen: 0.085 ppbv

RT: 25.19 min Scan# 7496

Delta R.T. 0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

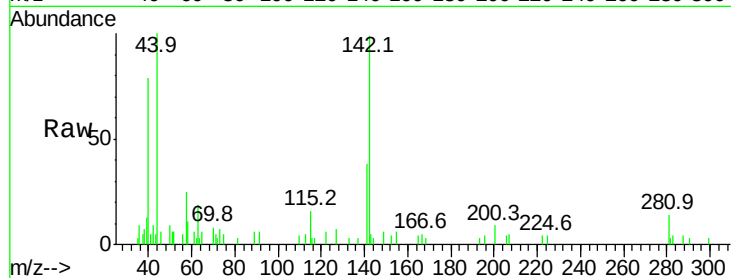
Tgt Ion:142 Resp: 9157

Ion Ratio Lower Upper

142 100

141 83.7 67.1 100.7

115 36.2 32.5 48.7



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

