

Data File : VL032518.D
Acq On : 24 Sep 2018 19:02
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Sep 24 19:31:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 18:32:13 2018
QLast Update : Mon Sep 24 18:32:13 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1624603	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3592953	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3546057	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2708465	10.29	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.09	85	23962	0.115	ppbv	98
3) Chlorodifluoromethane	3.03	51	15470	0.105	ppbv	97
4) Chloromethane	3.19	50	8621	0.097	ppbv	93
5) Vinyl Chloride	3.31	62	7600	0.086	ppbv	93
6) Bromomethane	3.53	94	3501	0.076	ppbv	96
7) Chloroethane	3.62	64	4070	0.134	ppbv	100
8) Dichlorotetrafluoroethane	3.24	85	20166	0.109	ppbv	97
9) Propene	3.06	41	2982	0.050	ppbv #	2
10) Heptane	8.28	43	9904	0.047	ppbv #	55
11) Trichlorofluoromethane	4.02	101	20691	0.110	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.58	101	6938	0.055	ppbv #	17
14) Bromoethene	3.81	108	3237	0.060	ppbv #	20
15) Acetone	3.94	43	37018	0.253	ppbv	93
16) 1,3-Butadiene	3.38	39	4984	0.072	ppbv	83
18) 1,1-Dichloroethene	4.38	96	5927	0.102	ppbv #	77
20) Methylene Chloride	4.43	84	18549	0.333	ppbv #	80
21) Allyl Chloride	4.50	41	6923	0.071	ppbv #	31
22) trans-1,2-Dichloroethene	4.99	96	5838	0.093	ppbv #	79
23) Vinyl Acetate	5.18	43	10760	0.044	ppbv #	91
24) 1,1-Dichloroethane	5.12	63	8977	0.045	ppbv	99
25) Ethyl Acetate	5.81	43	34479	0.100	ppbv #	95
26) Hexane	5.81	57	15721	0.102	ppbv #	86
27) Carbon Disulfide	4.65	76	17105	0.120	ppbv #	1
28) Methyl tert-Butyl Ether	5.16	73	13360	0.070	ppbv	96
29) Chloroform	5.87	83	26567	0.113	ppbv	92
30) Cyclohexane	7.27	84	3727	0.033	ppbv #	1
31) cis-1,2-Dichloroethene	5.67	61	4553	0.033	ppbv #	57
32) 1,1,1-Trichloroethane	6.64	97	19176	0.087	ppbv #	69
34) 2-Butanone	5.38	43	16125	0.068	ppbv	91
35) Carbon Tetrachloride	7.16	117	26772	0.111	ppbv #	79
36) Benzene	7.03	78	14518	0.047	ppbv	97
37) 1,2-Dichloroethane	6.44	62	19429	0.104	ppbv	99
39) 1,2-Dichloropropane	7.32	63	986979	7.544	ppbv #	25
41) Tetrahydrofuran	6.21	42	8294	0.064	ppbv	95
42) Bromodichloromethane	7.94	83	22983	0.089	ppbv #	77
43) Methyl Methacrylate	8.17	69	3946	0.030	ppbv #	1
47) 1,1,2-Trichloroethane	9.64	97	9440	0.068	ppbv #	73
48) Dibromochloromethane	10.48	129	13959	0.072	ppbv	63
49) Bromoform	13.23	173	13325	0.080	ppbv	89
50) 4-Methyl-2-Pentanone	8.93	43	18398	0.051	ppbv #	79
54) 1,2-Dibromoethane	10.79	107	11032	0.059	ppbv	87

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092418\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Chlorobenzene	12.34	112	16261	0.057	ppbv	98
59) m/p-Xylene	13.18	91	17436	0.046	ppbv #	31
60) o-Xylene	13.88	91	18689	0.050	ppbv	97
62) Isopropylbenzene	14.86	105	25859	0.049	ppbv #	83
63) 1,1,2,2-Tetrachloroethane	13.87	83	20242	0.061	ppbv #	51
66) Benzyl Chloride	17.19	91	13013	0.052	ppbv #	43
70) n-Butylbenzene	18.75	91	22995	0.039	ppbv #	86
71) 2-Chlorotoluene	15.65	91	19984	0.050	ppbv	87
75) 1,3-Dichlorobenzene	17.19	146	28130	0.107	ppbv	78

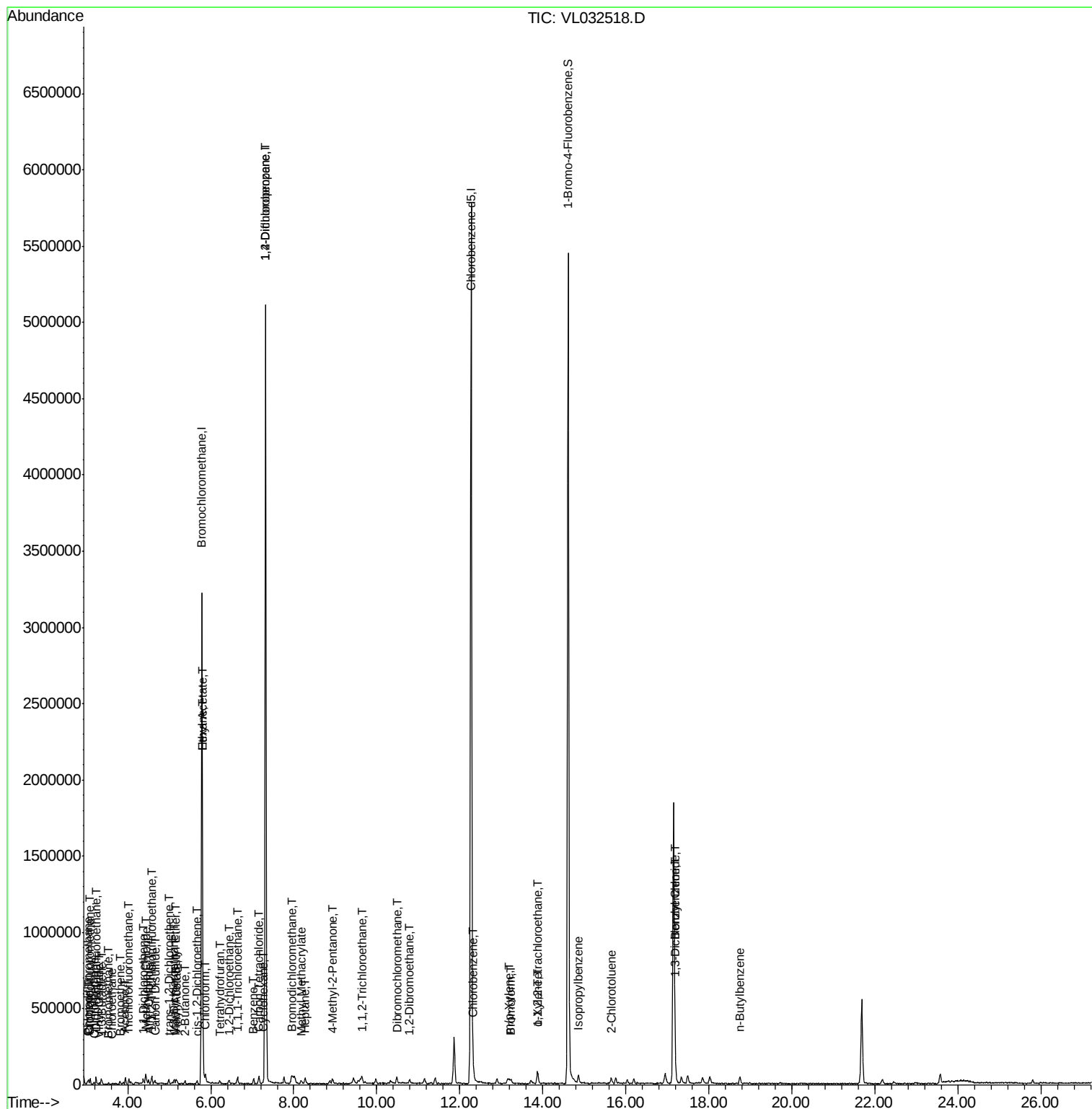
(#) = qualifier out of range (m) = manual integration (+) = signals summed

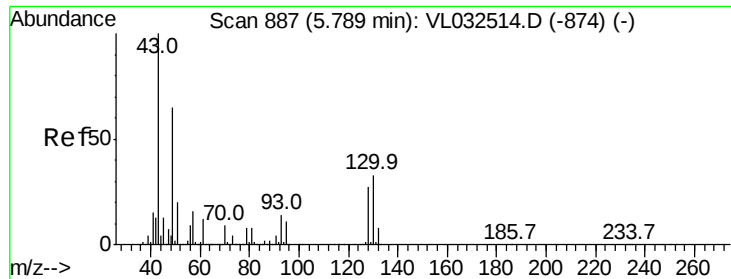
Data File : VL032518.D

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Acq On       : 24 Sep 2018  19:02
Operator     : SY/AP
Sample       : VSTDICC0.1
Misc         : 400ml/MSV0A_L
ALS Vial     : 1      Sample Multipl
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Instrument :
MSVOA_L
ClientSampleId :
VSTDICCO.1

Quant Time: Sep 24 19:31:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

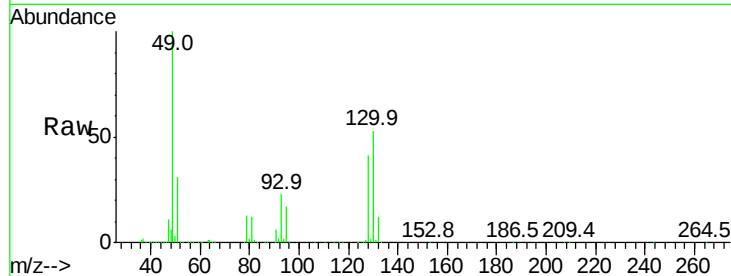
Tgt Ion: 49 Resp: 1624603

Ion Ratio Lower Upper

49 100

128 43.1 20.7 62.1

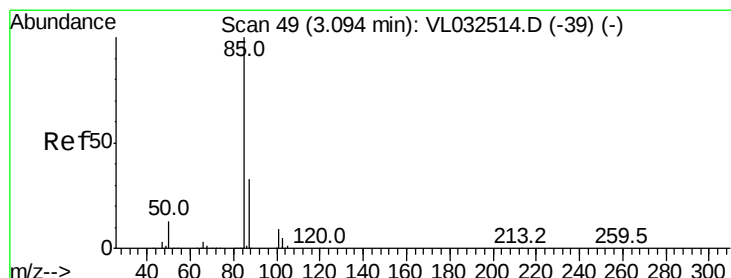
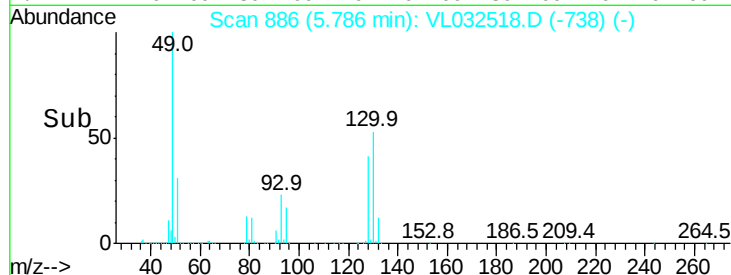
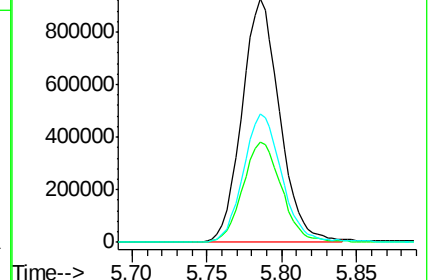
130 54.3 26.6 79.7



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: 0.115 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032518.D

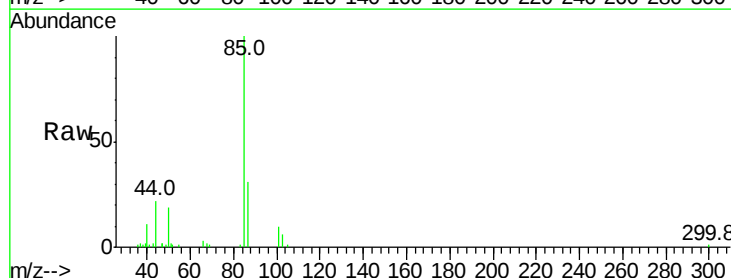
Acq: 24 Sep 2018 19:02

Tgt Ion: 85 Resp: 23962

Ion Ratio Lower Upper

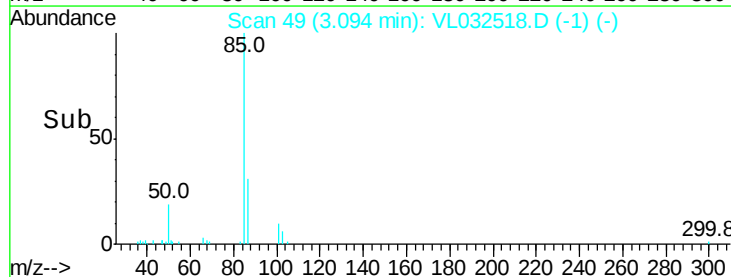
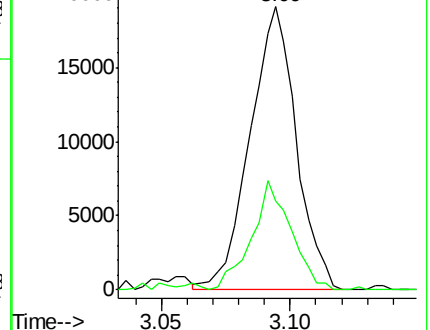
85 100

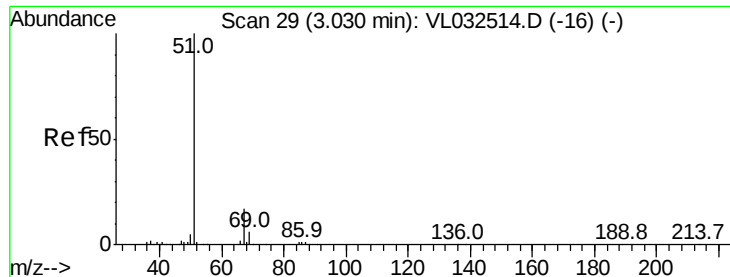
87 31.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.105 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

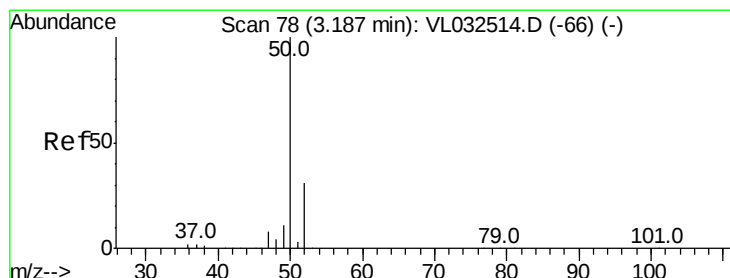
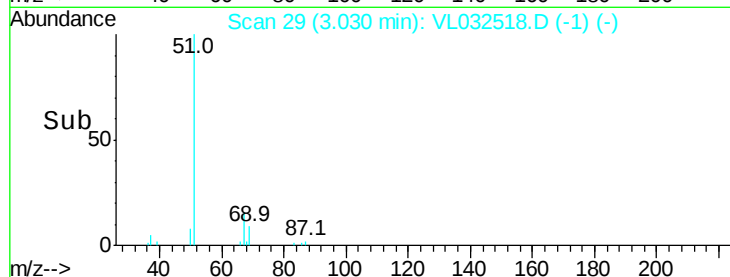
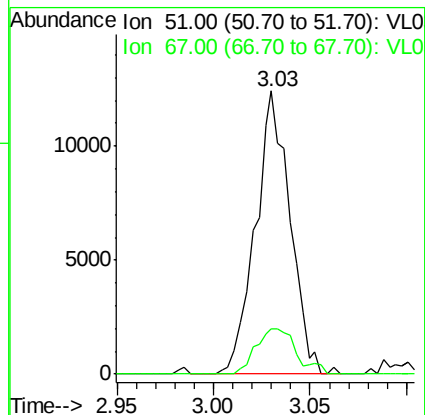
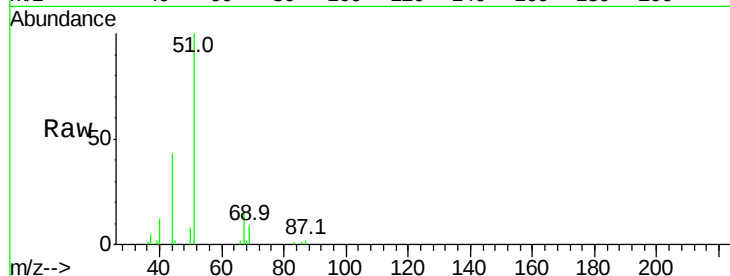
VSTDIC0.1

Tgt Ion: 51 Resp: 15470

Ion Ratio Lower Upper

51 100

67 18.6 13.8 20.8



#4

Chloromethane

Concen: 0.097 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032518.D

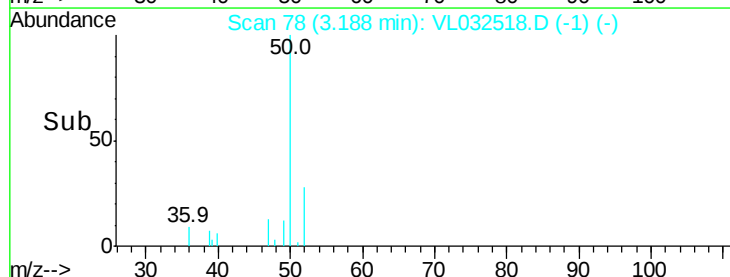
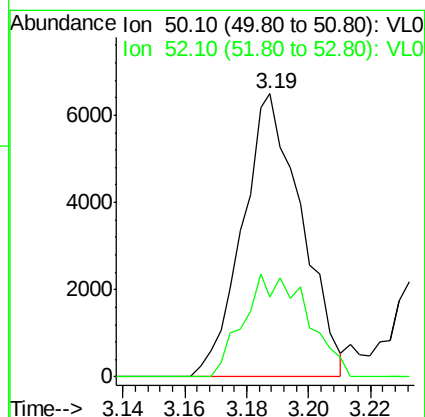
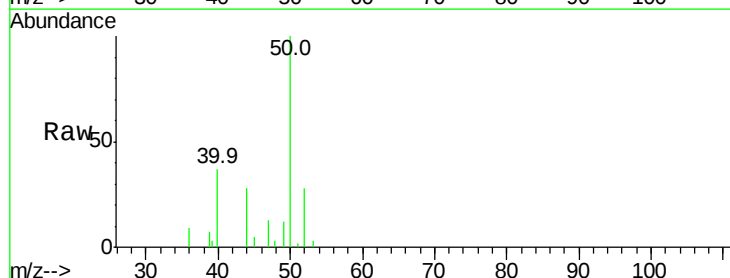
Acq: 24 Sep 2018 19:02

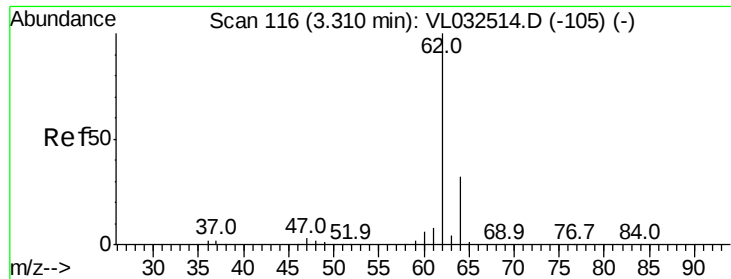
Tgt Ion: 50 Resp: 8621

Ion Ratio Lower Upper

50 100

52 28.2 25.6 38.4





#5

Vinyl Chloride

Concen: 0.086 ppbv

RT: 3.31 min Scan# 116

Delta R.T. -0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

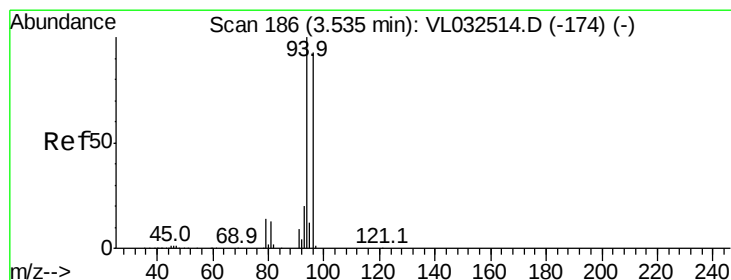
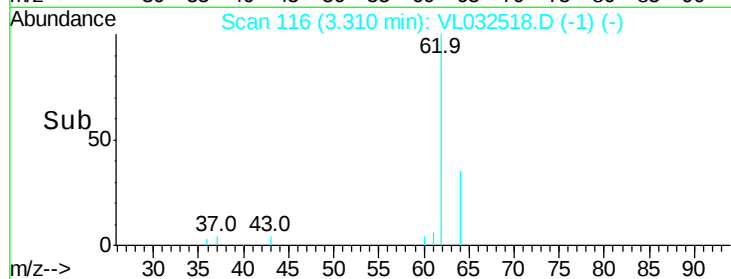
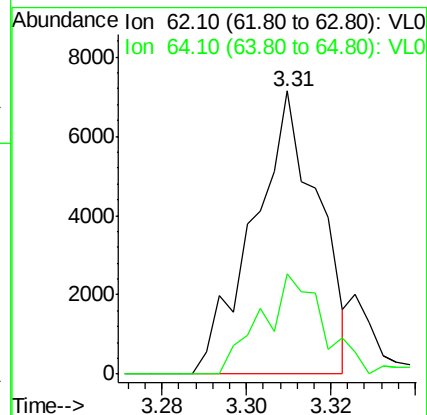
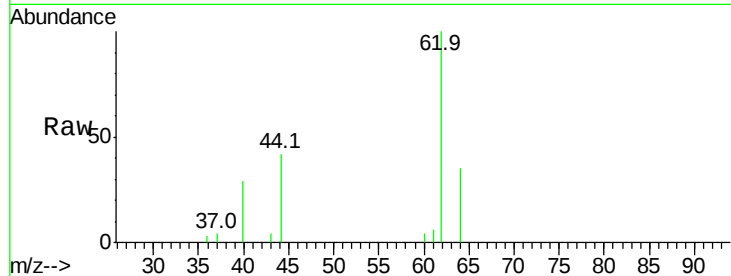
VSTDIC0.1

Tgt Ion: 62 Resp: 7600

Ion Ratio Lower Upper

62 100

64 35.4 25.0 37.6



#6

Bromomethane

Concen: 0.076 ppbv

RT: 3.53 min Scan# 186

Delta R.T. -0.01 min

Lab File: VL032518.D

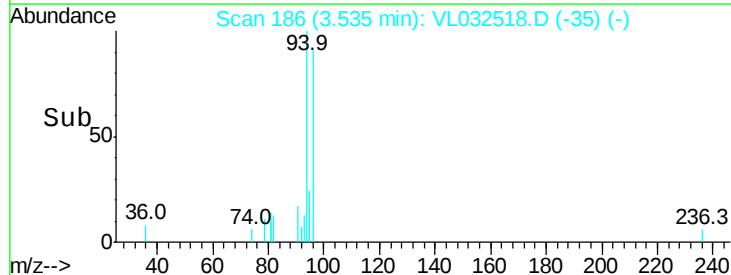
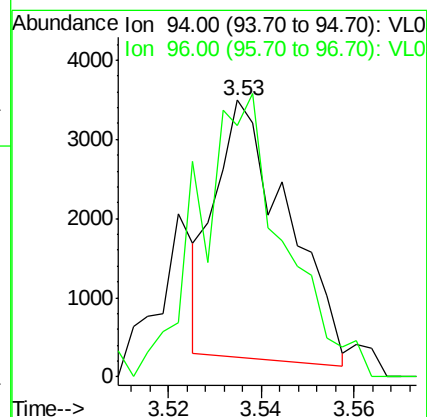
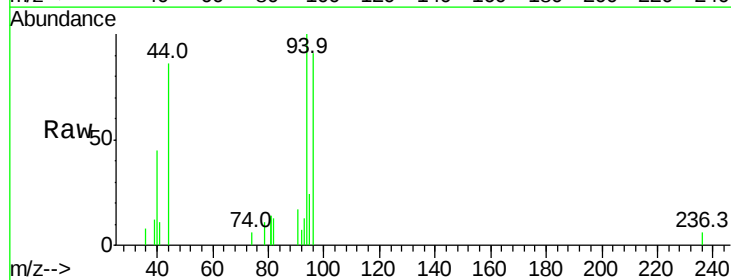
Acq: 24 Sep 2018 19:02

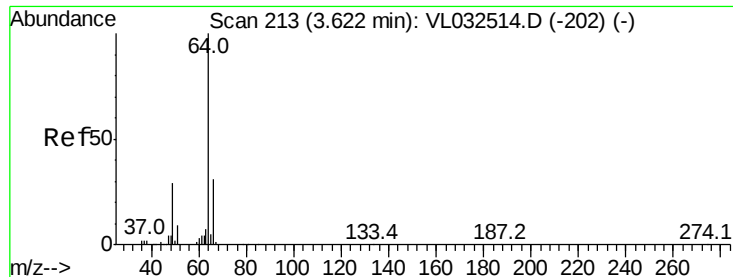
Tgt Ion: 94 Resp: 3501

Ion Ratio Lower Upper

94 100

96 87.1 72.8 109.2





#7

Chloroethane

Concen: 0.134 ppbv

RT: 3.62 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

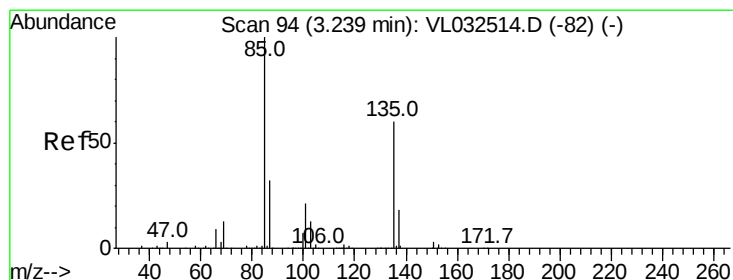
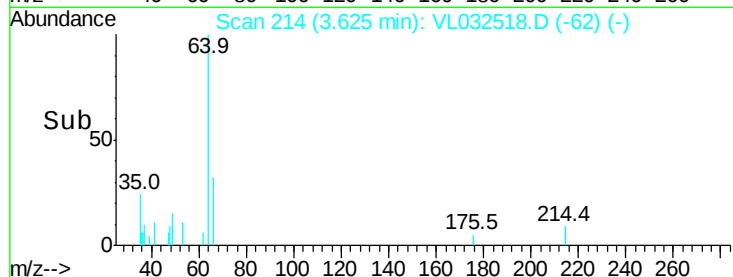
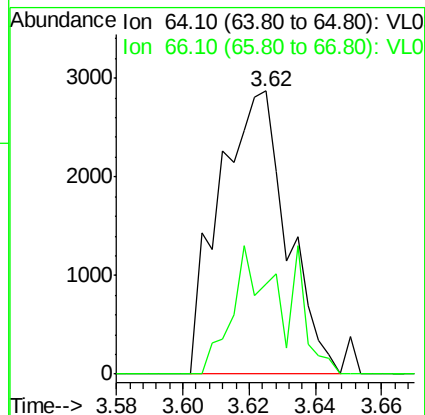
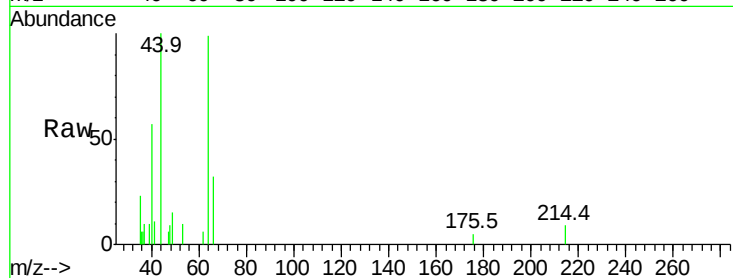
VSTDIC0.1

Tgt Ion: 64 Resp: 4070

Ion Ratio Lower Upper

64 100

66 32.0 25.8 38.6



#8

Dichlorotetrafluoroethane

Concen: 0.109 ppbv

RT: 3.24 min Scan# 94

Delta R.T. -0.01 min

Lab File: VL032518.D

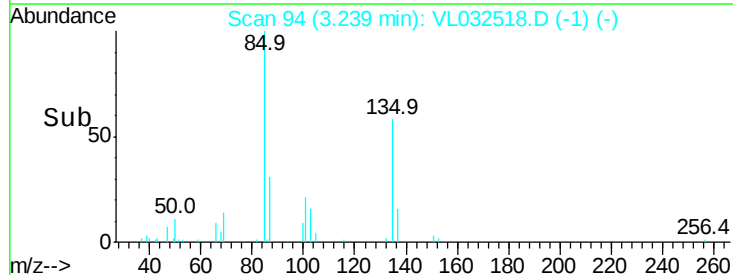
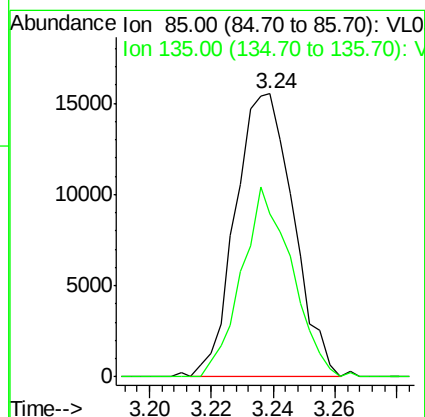
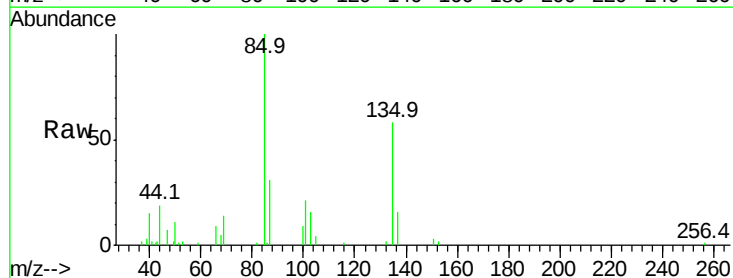
Acq: 24 Sep 2018 19:02

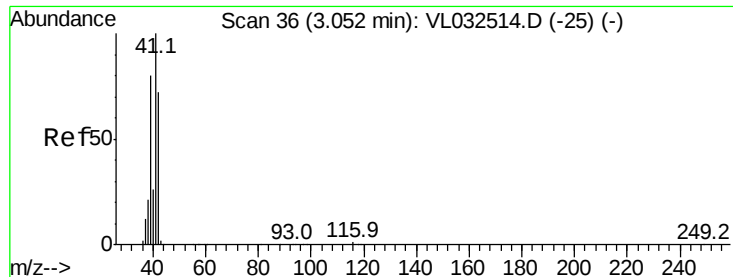
Tgt Ion: 85 Resp: 20166

Ion Ratio Lower Upper

85 100

135 58.2 48.6 72.8





#9

Propene

Concen: 0.050 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

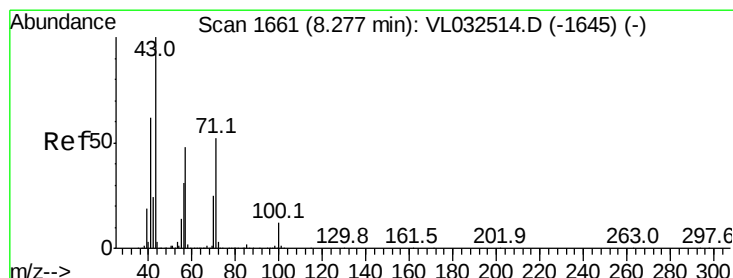
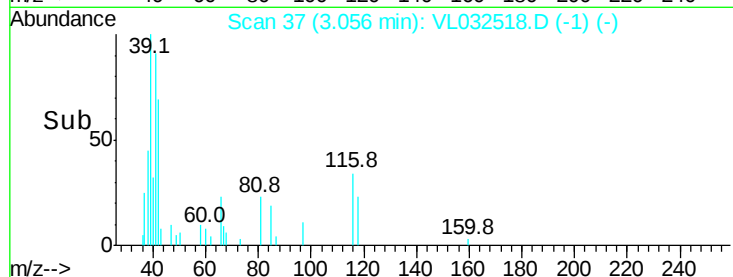
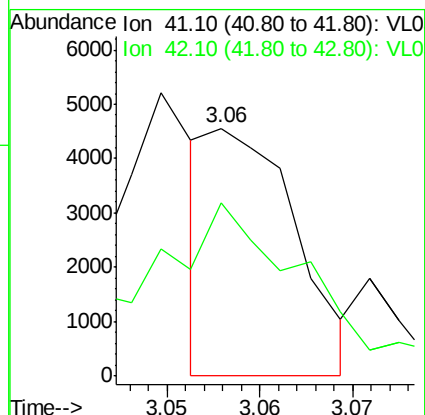
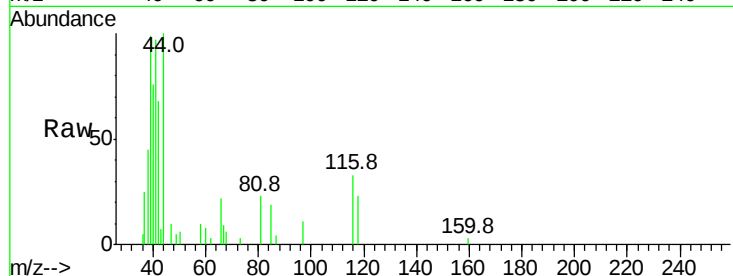
VSTDIC0.1

Tgt Ion: 41 Resp: 2982

Ion Ratio Lower Upper

41 100

42 151.3 56.6 84.8#



#10

Heptane

Concen: 0.047 ppbv

RT: 8.28 min Scan# 1661

Delta R.T. -0.02 min

Lab File: VL032518.D

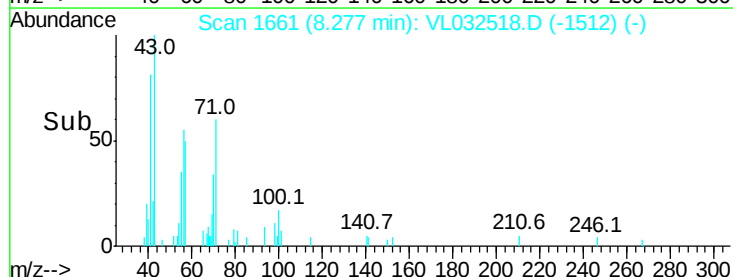
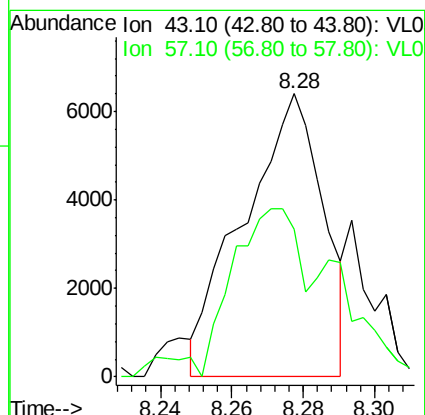
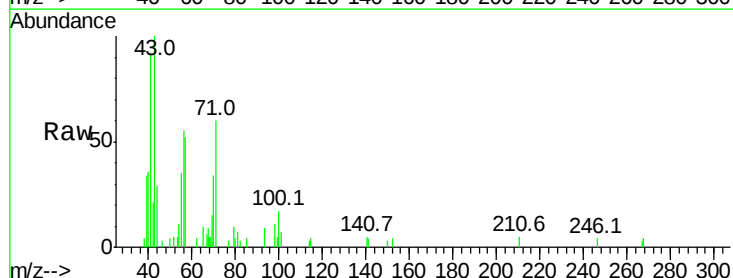
Acq: 24 Sep 2018 19:02

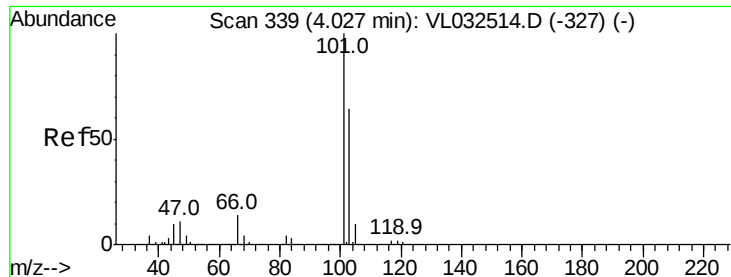
Tgt Ion: 43 Resp: 9904

Ion Ratio Lower Upper

43 100

57 80.2 39.6 59.4#





#11

Trichlorofluoromethane

Concen: 0.110 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

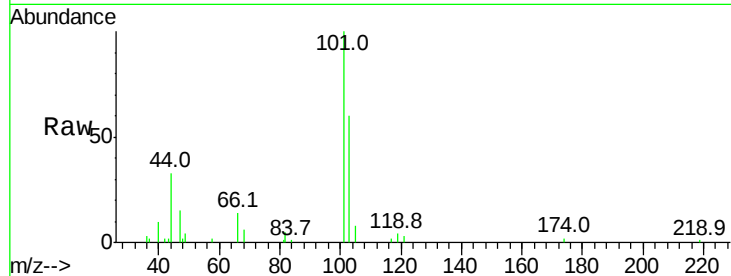
VSTDIC0.1

Tgt Ion:101 Resp: 20691

Ion Ratio Lower Upper

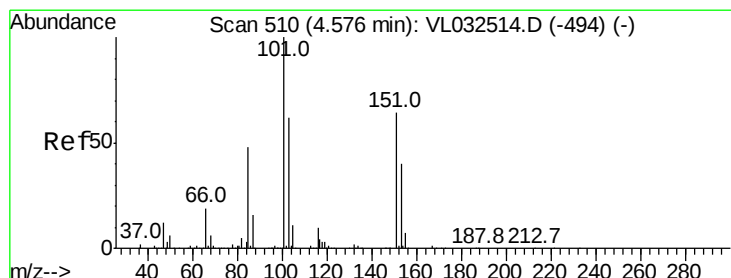
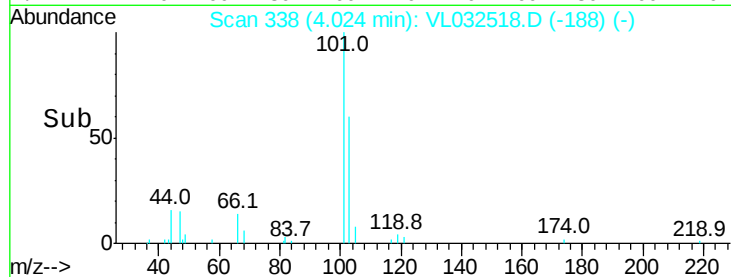
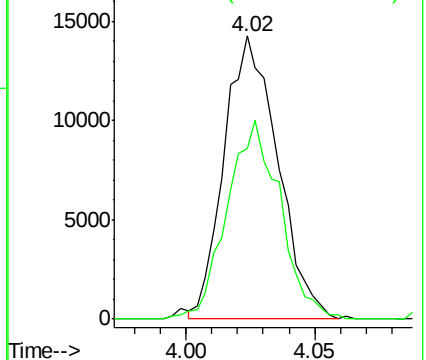
101 100

103 58.6 52.8 79.2



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: 4.58 min Scan# 511

Delta R.T. -0.01 min

Lab File: VL032518.D

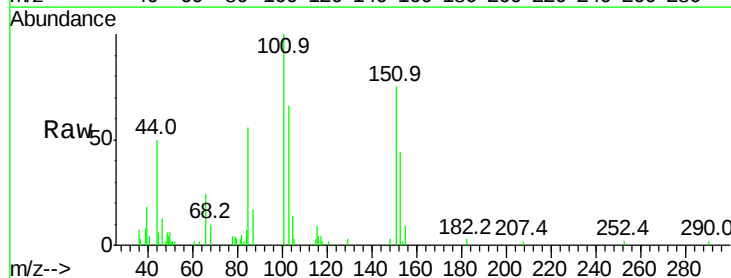
Acq: 24 Sep 2018 19:02

Tgt Ion:101 Resp: 6938

Ion Ratio Lower Upper

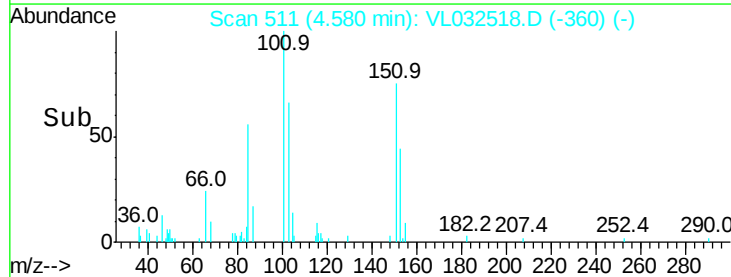
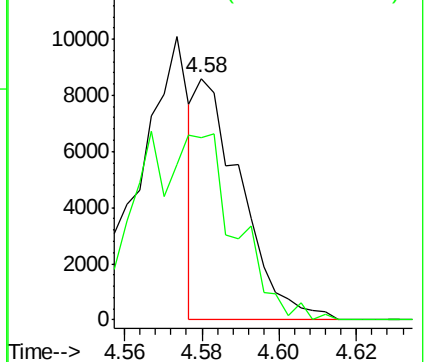
101 100

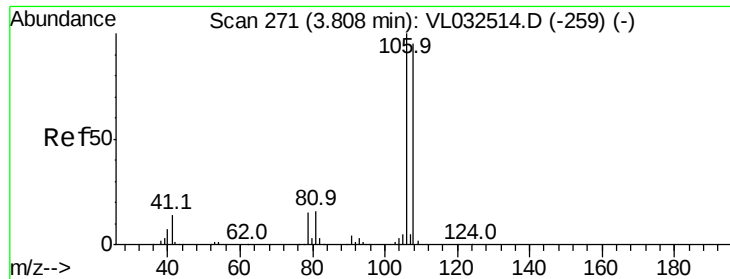
151 0.0 52.6 78.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.060 ppbv

RT: 3.81 min Scan# 271

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

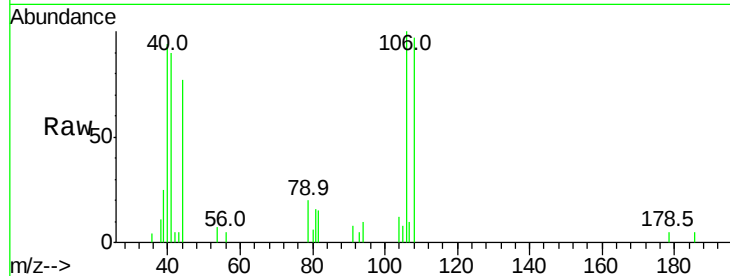
Tgt Ion:108 Resp: 3237

Ion Ratio Lower Upper

108 100

106 190.3 85.5 128.3#

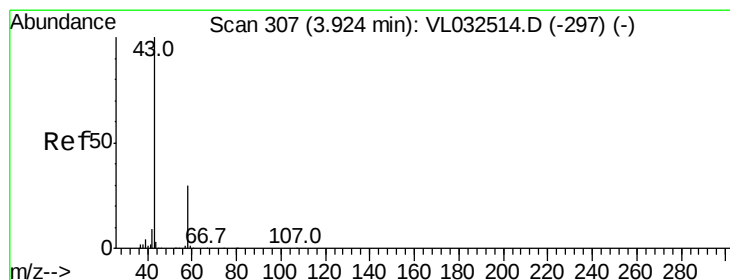
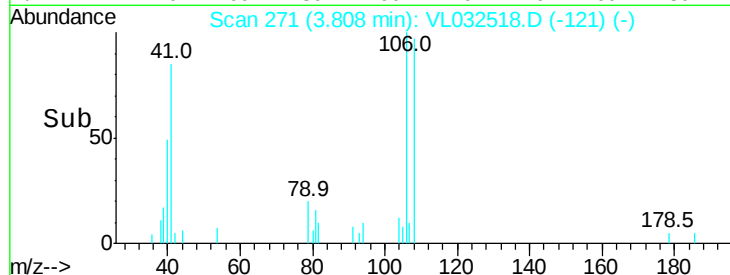
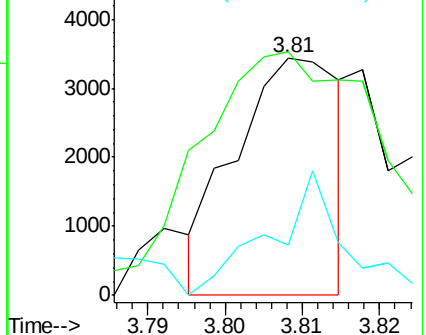
79 49.2 13.0 19.6#



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: 0.253 ppbv

RT: 3.94 min Scan# 312

Delta R.T. 0.00 min

Lab File: VL032518.D

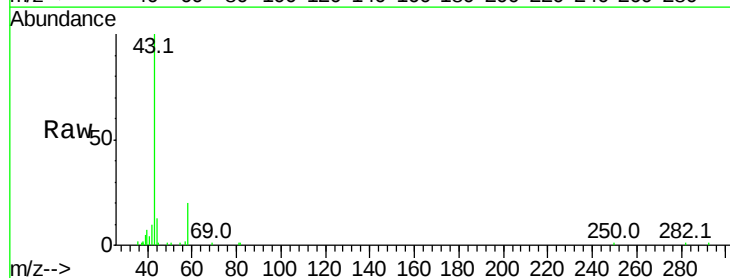
Acq: 24 Sep 2018 19:02

Tgt Ion: 43 Resp: 37018

Ion Ratio Lower Upper

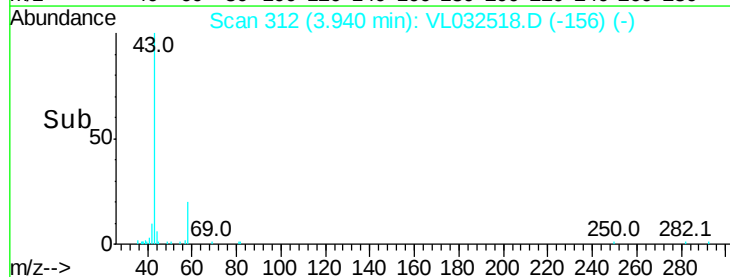
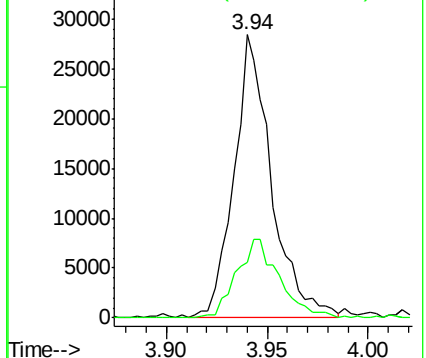
43 100

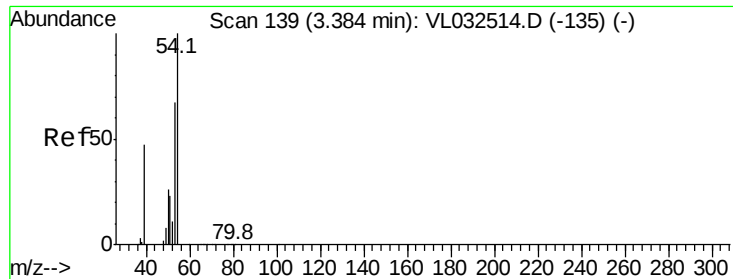
58 31.9 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

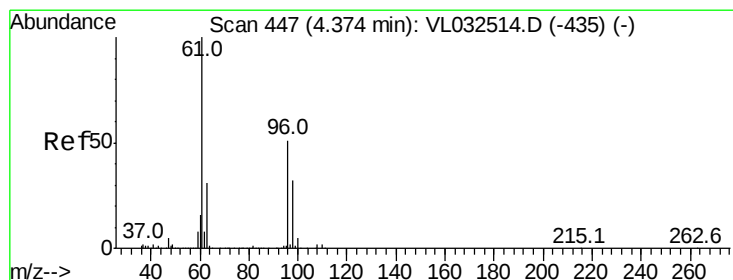
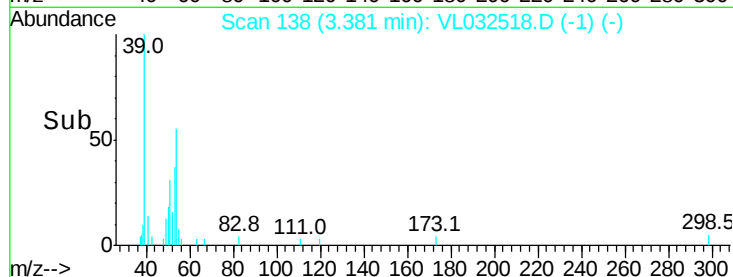
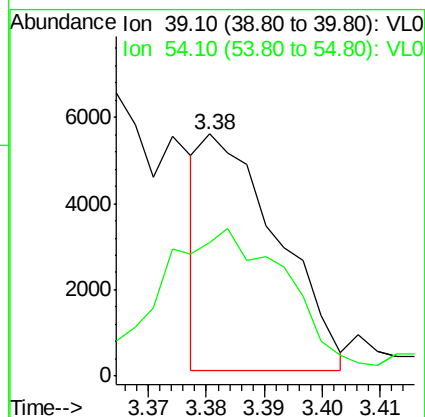
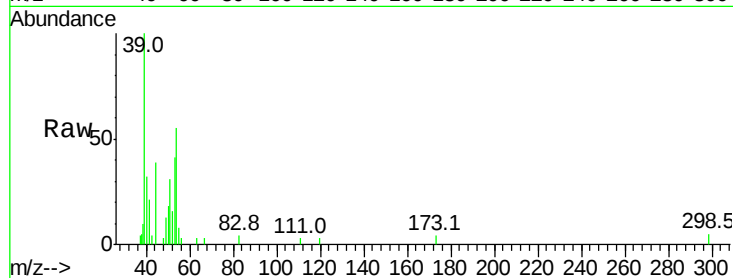




#16
 1,3-Butadiene
 Concen: 0.072 ppbv
 RT: 3.38 min Scan# 138
 Delta R.T. -0.02 min
 Lab File: VL032518.D
 Acq: 24 Sep 2018 19:02

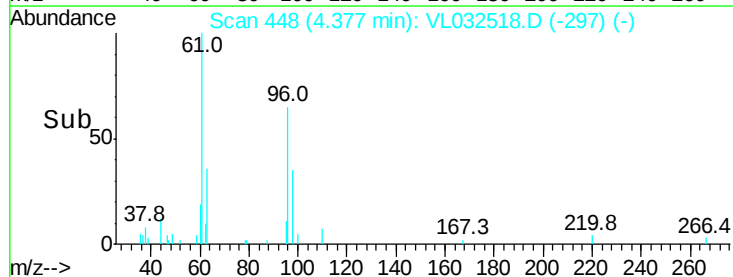
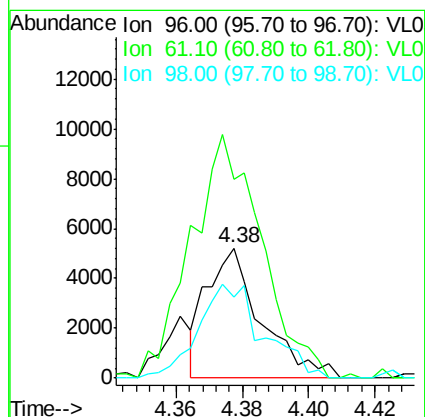
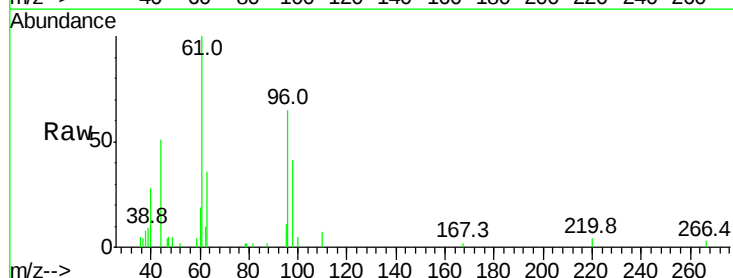
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

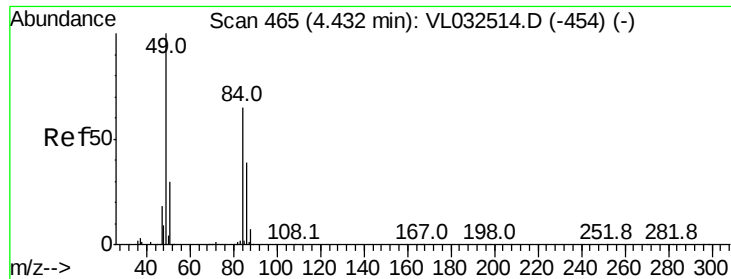
Tgt Ion: 39 Resp: 4984
 Ion Ratio Lower Upper
 39 100
 54 117.7 80.8 121.2



#18
 1,1-Dichloroethene
 Concen: 0.102 ppbv
 RT: 4.38 min Scan# 448
 Delta R.T. -0.01 min
 Lab File: VL032518.D
 Acq: 24 Sep 2018 19:02

Tgt Ion: 96 Resp: 5927
 Ion Ratio Lower Upper
 96 100
 61 153.2 159.2 238.8#
 98 62.9 51.0 76.4

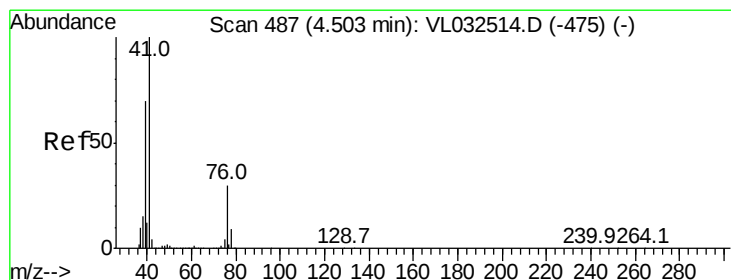
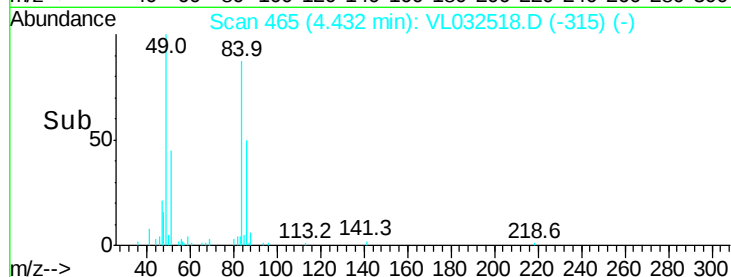
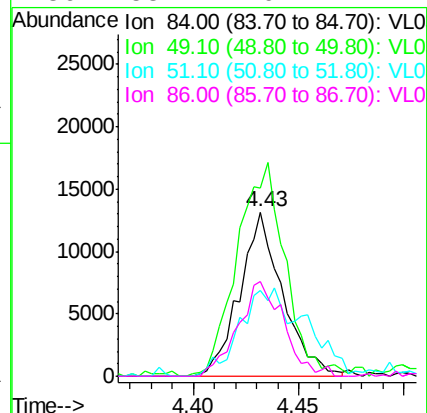
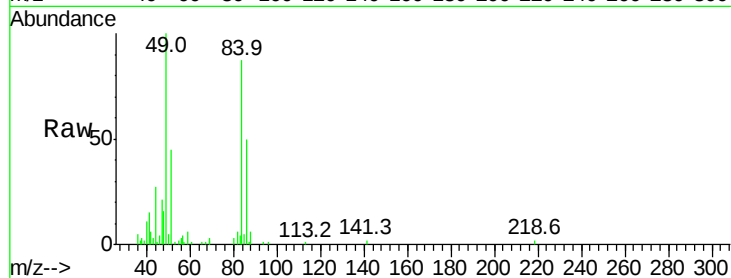




#20
Methylene Chloride
Concen: 0.333 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL032518.D
Acq: 24 Sep 2018 19:02

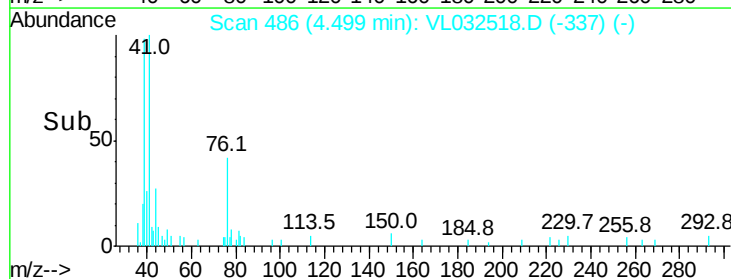
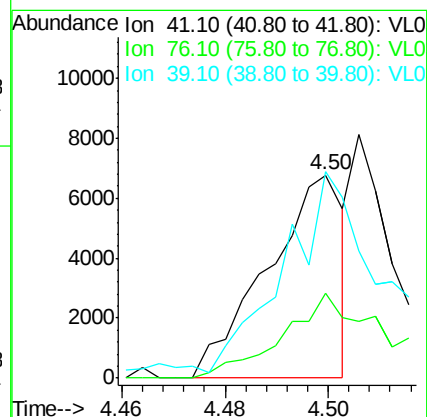
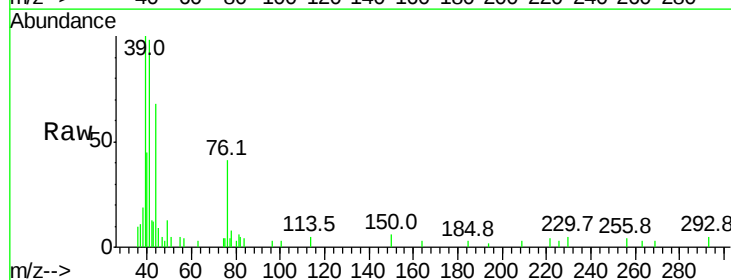
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

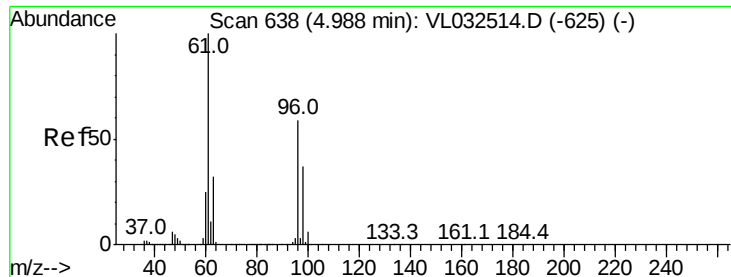
Tgt Ion: 84 Resp: 18549
Ion Ratio Lower Upper
84 100
49 113.4 119.1 178.7#
51 52.3 35.2 52.8
86 58.1 49.4 74.2



#21
Allyl Chloride
Concen: 0.071 ppbv
RT: 4.50 min Scan# 486
Delta R.T. -0.02 min
Lab File: VL032518.D
Acq: 24 Sep 2018 19:02

Tgt Ion: 41 Resp: 6923
Ion Ratio Lower Upper
41 100
76 55.0 23.6 35.4#
39 136.4 57.7 86.5#





#22

trans-1,2-Dichloroethene

Concen: 0.093 ppbv

RT: 4.99 min Scan# 638

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

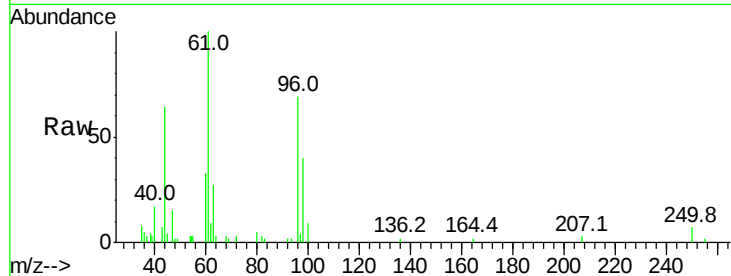
Tgt Ion: 96 Resp: 5838

Ion Ratio Lower Upper

96 100

61 136.1 136.2 204.4#

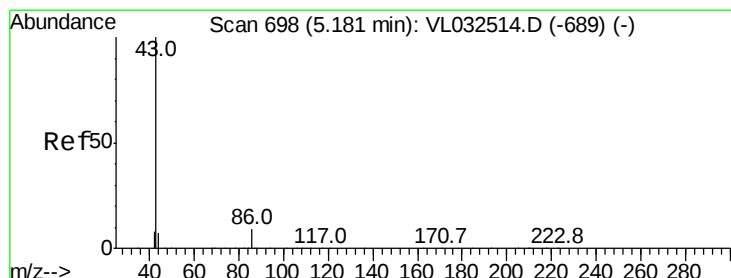
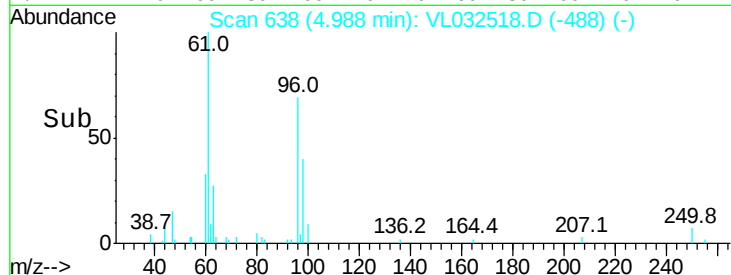
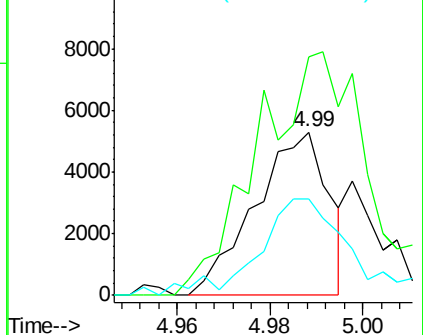
98 54.6 50.4 75.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.044 ppbv

RT: 5.18 min Scan# 697

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Tgt Ion: 43 Resp: 10760

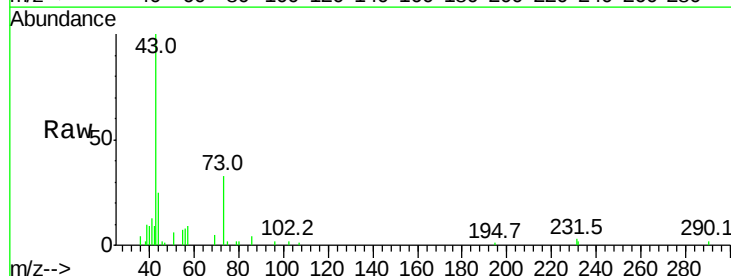
Ion Ratio Lower Upper

43 100

86 3.8 5.9 8.9#

42 9.0 6.9 10.3

44 0.0 4.6 7.0#

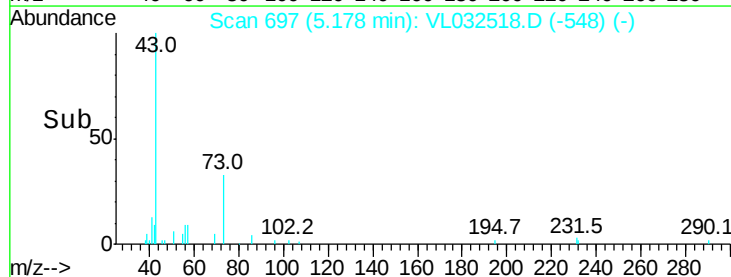
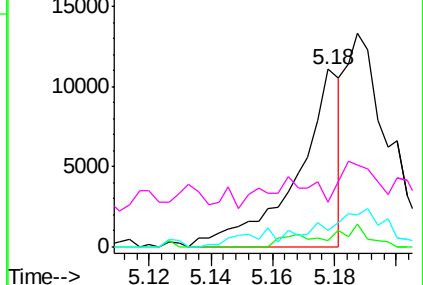


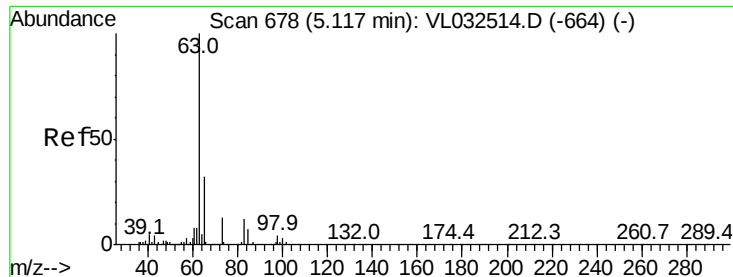
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.045 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

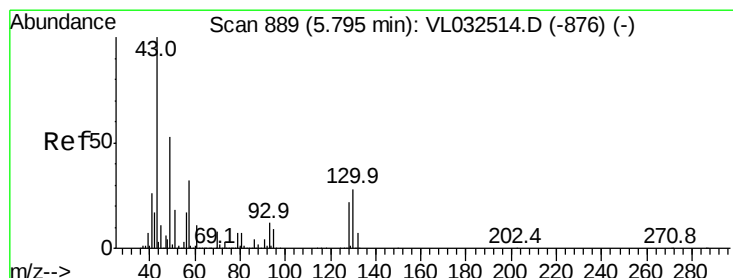
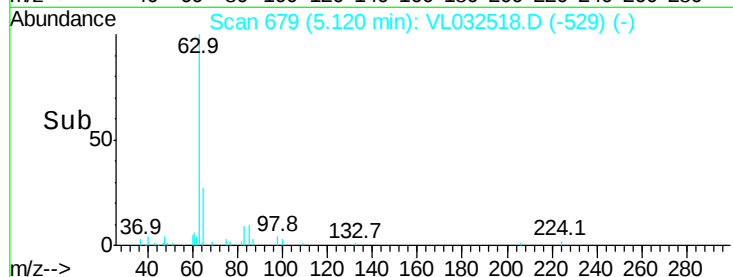
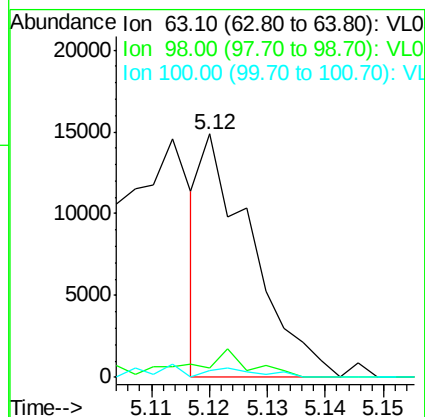
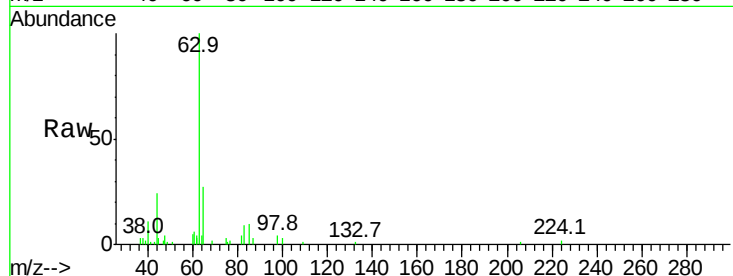
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	63	Resp:	8977
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.1	6.5
100	3.1	1.5	4.4



#25

Ethyl Acetate

Concen: 0.100 ppbv

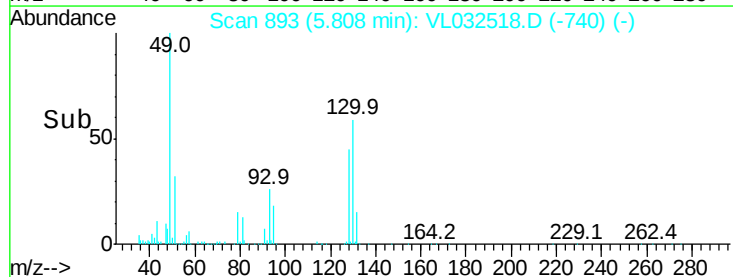
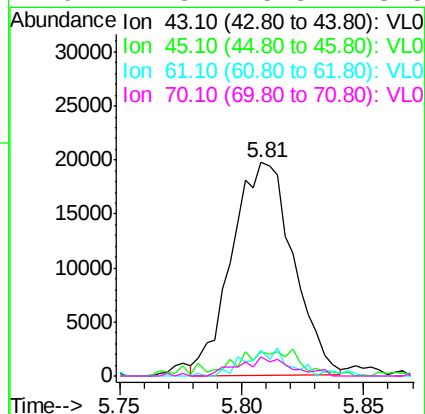
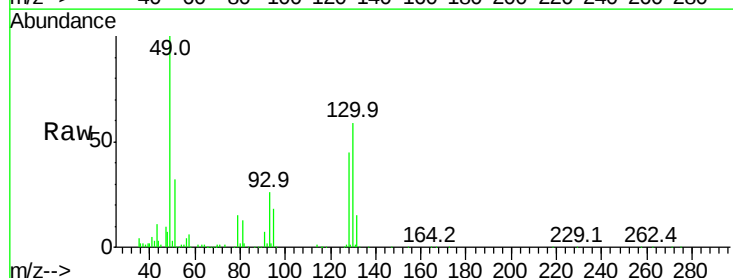
RT: 5.81 min Scan# 893

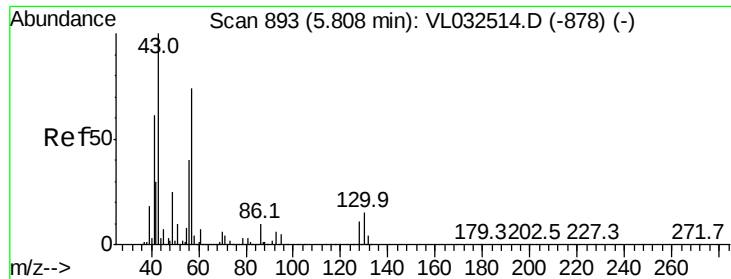
Delta R.T. -0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Tgt Ion:	43	Resp:	34479
Ion	Ratio	Lower	Upper
43	100		
45	14.4	8.0	12.0#
61	9.7	7.6	11.4
70	7.8	5.8	8.8





#26

Hexane

Concen: 0.102 ppbv

RT: 5.81 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 57 Resp: 15721

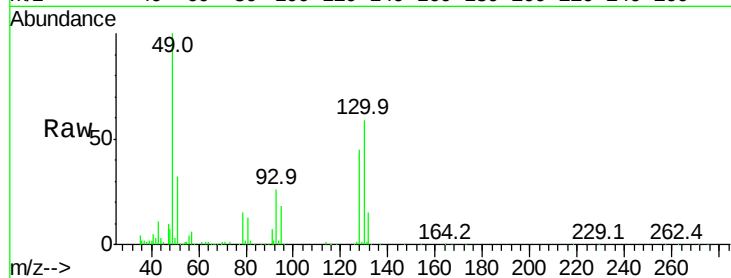
Ion Ratio Lower Upper

57 100

41 106.4 69.0 103.4#

43 232.0 172.1 258.1

56 61.3 42.2 63.2

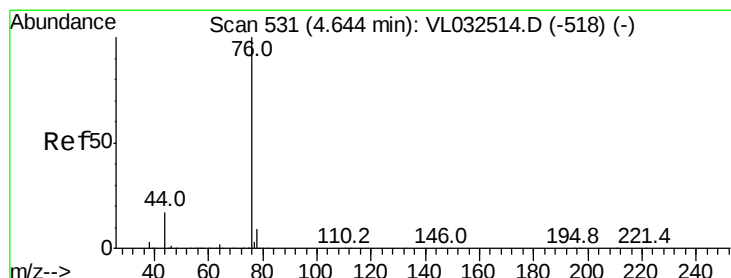
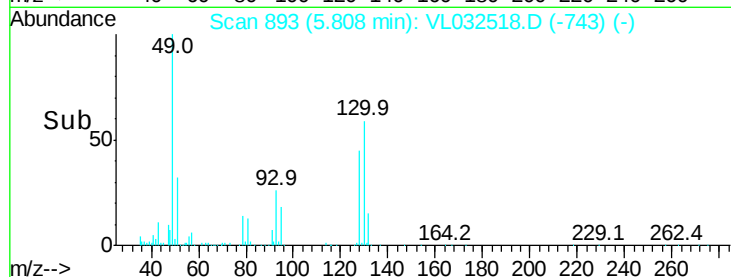
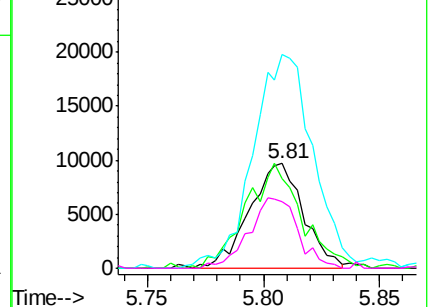


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.120 ppbv

RT: 4.65 min Scan# 532

Delta R.T. -0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

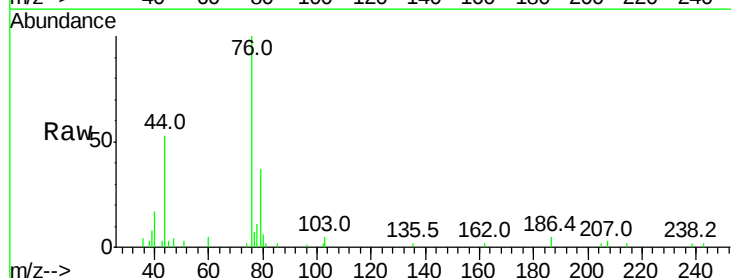
Tgt Ion: 76 Resp: 17105

Ion Ratio Lower Upper

76 100

44 97.1 14.0 21.0#

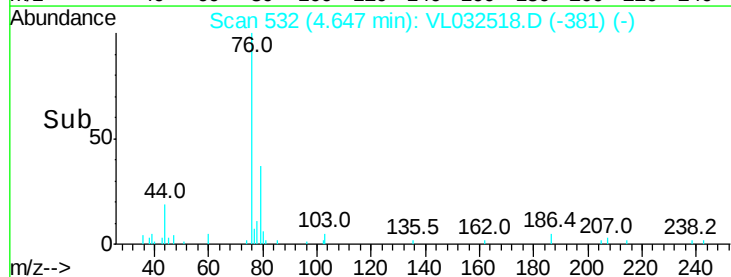
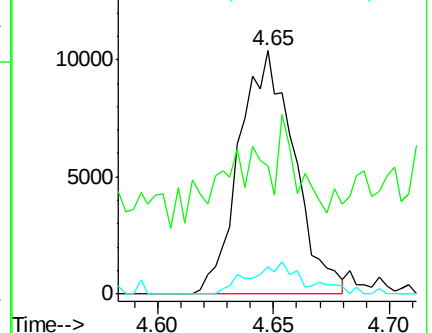
78 13.2 7.5 11.3#

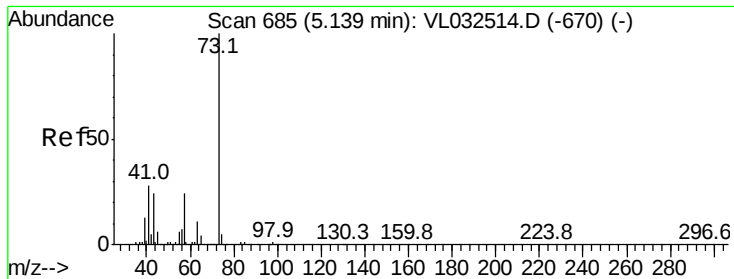


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#28

Methyl tert-Butyl Ether

Concen: 0.070 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

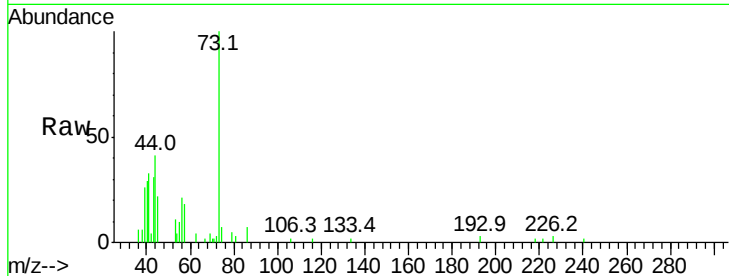
VSTDIC0.1

Tgt Ion: 73 Resp: 13360

Ion Ratio Lower Upper

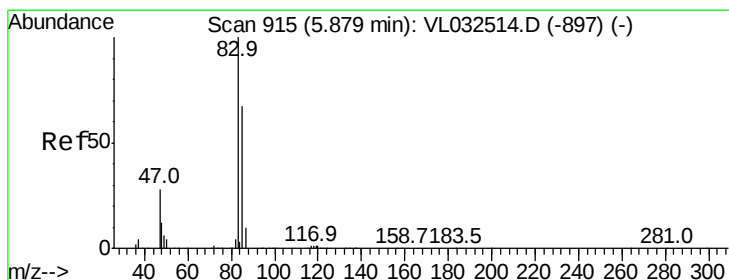
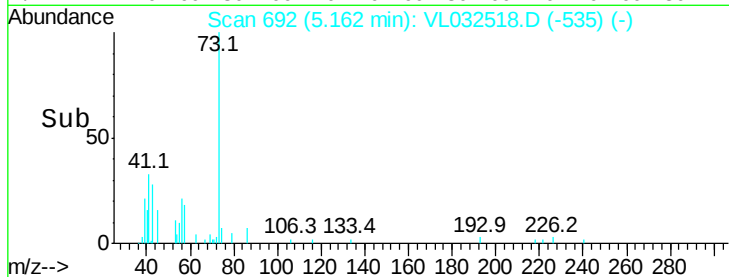
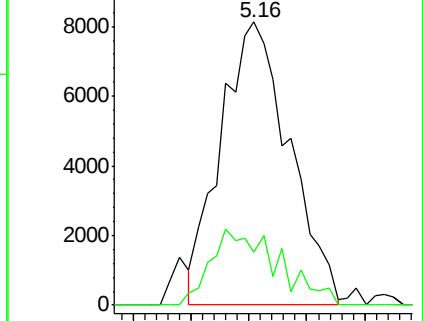
73 100

57 26.2 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.113 ppbv

RT: 5.87 min Scan# 911

Delta R.T. -0.03 min

Lab File: VL032518.D

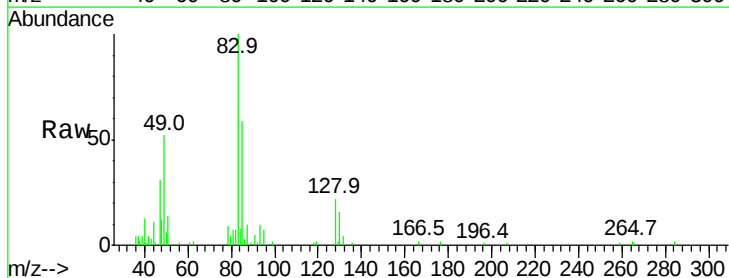
Acq: 24 Sep 2018 19:02

Tgt Ion: 83 Resp: 26567

Ion Ratio Lower Upper

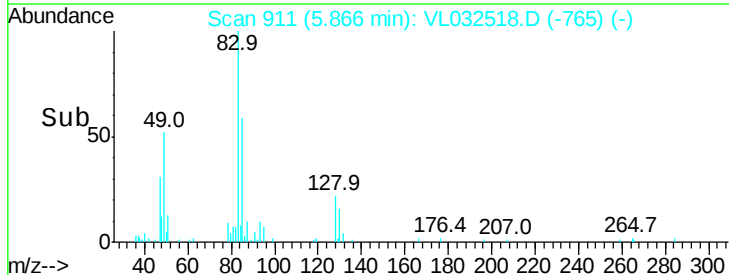
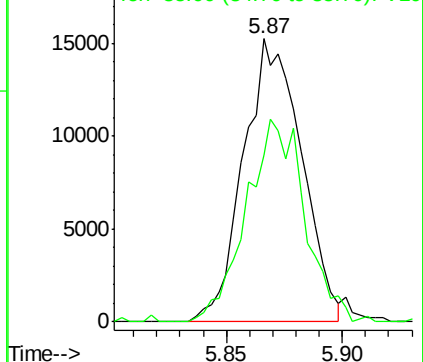
83 100

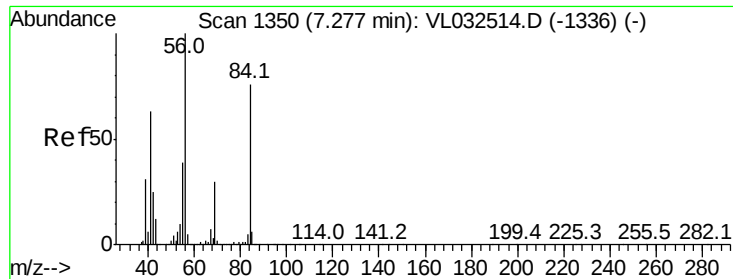
85 59.2 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

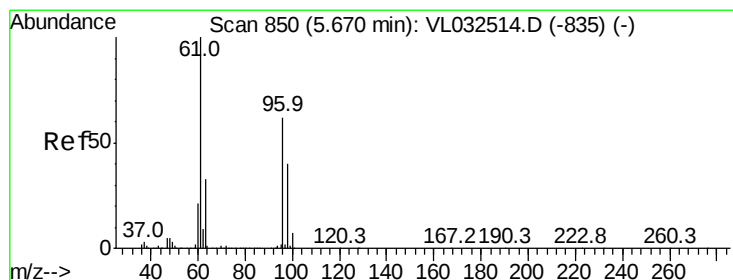
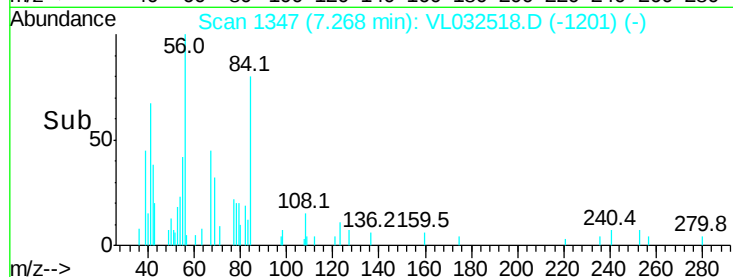
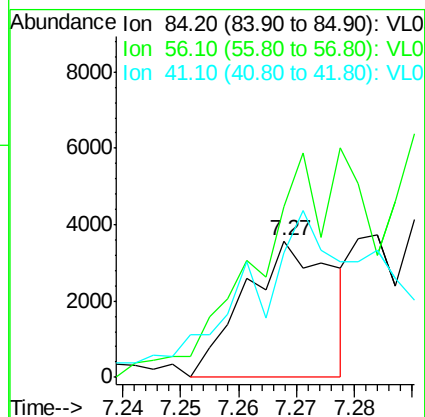
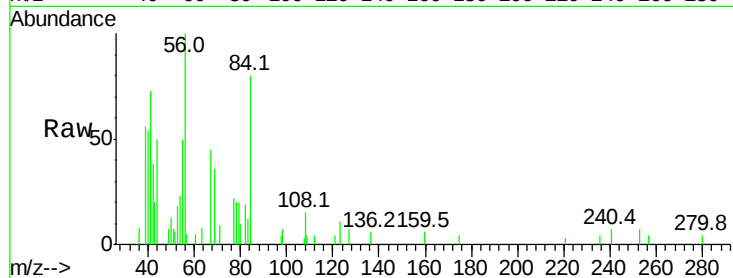




#30
Cyclohexane
Concen: 0.033 ppbv
RT: 7.27 min Scan# 1347
Delta R.T. -0.03 min
Lab File: VL032518.D
Acq: 24 Sep 2018 19:02

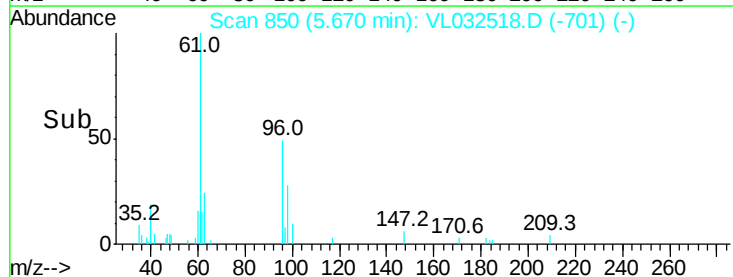
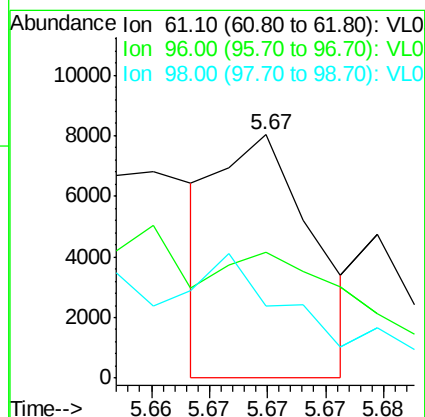
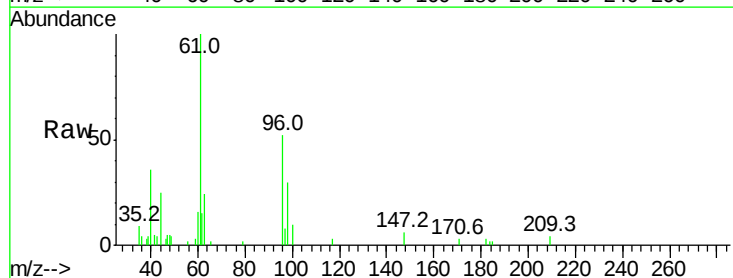
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

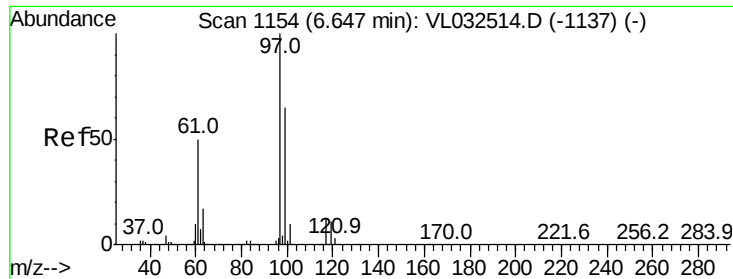
Tgt Ion: 84 Resp: 3727
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 259.2 68.1 102.1#



#31
cis-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 5.67 min Scan# 850
Delta R.T. -0.02 min
Lab File: VL032518.D
Acq: 24 Sep 2018 19:02

Tgt Ion: 61 Resp: 4553
Ion Ratio Lower Upper
61 100
96 20.0 49.2 73.8#
98 23.6 30.7 46.1#





#32

1,1,1-Trichloroethane

Concen: 0.087 ppbv

RT: 6.64 min Scan# 1153

Delta R.T. -0.03 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

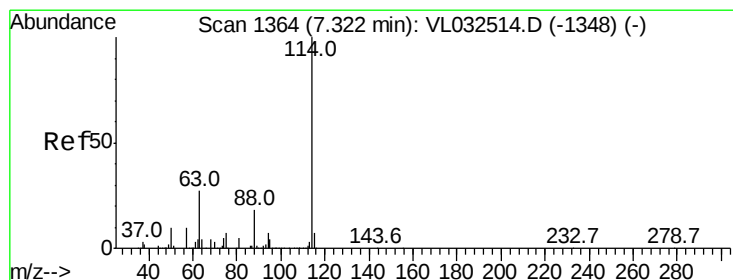
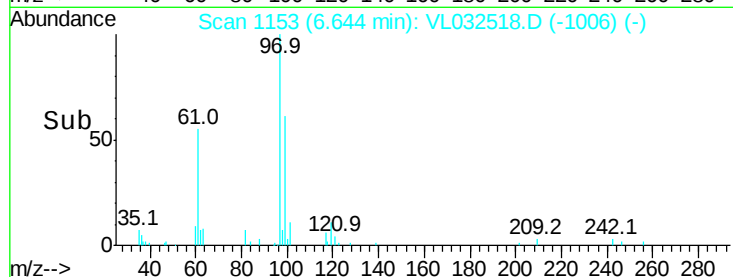
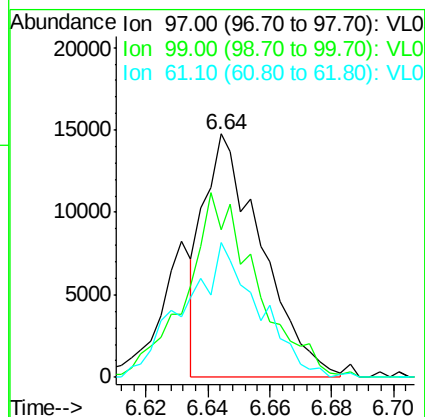
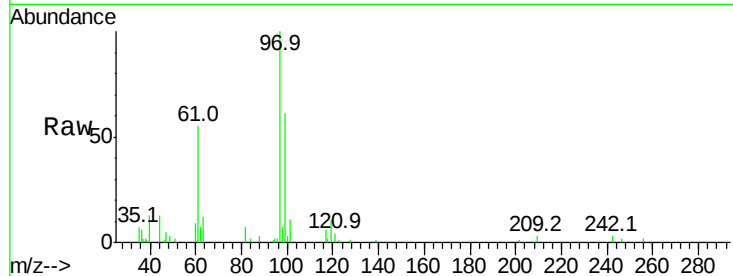
Tgt Ion: 97 Resp: 19176

Ion Ratio Lower Upper

97 100

99 93.1 52.1 78.1#

61 71.0 42.5 63.7#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

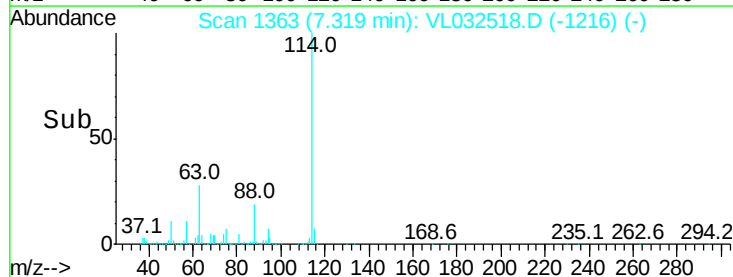
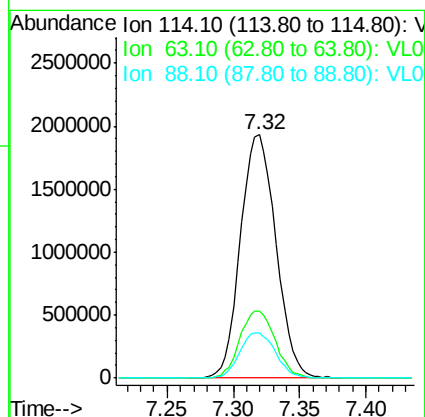
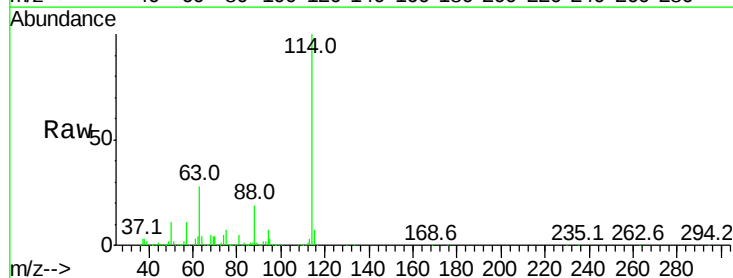
Tgt Ion: 114 Resp: 3592953

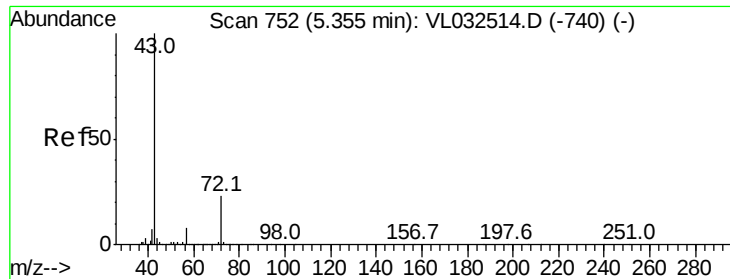
Ion Ratio Lower Upper

114 100

63 27.7 22.2 33.4

88 18.8 15.0 22.4





#34

2-Butanone

Concen: 0.068 ppbv

RT: 5.38 min Scan# 760

Delta R.T. 0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

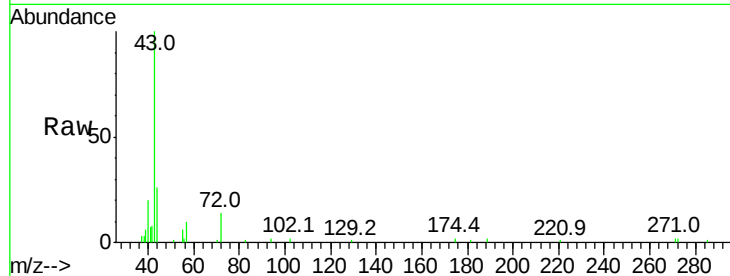
VSTDIC0.1

Tgt Ion: 43 Resp: 16125

Ion Ratio Lower Upper

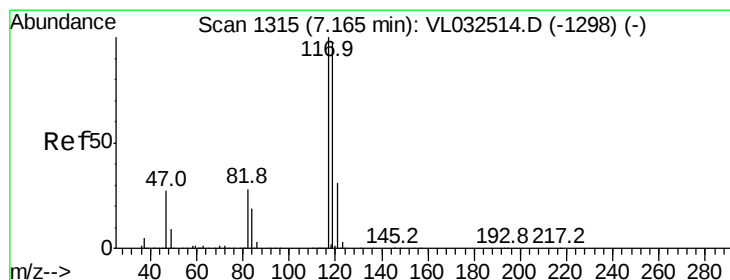
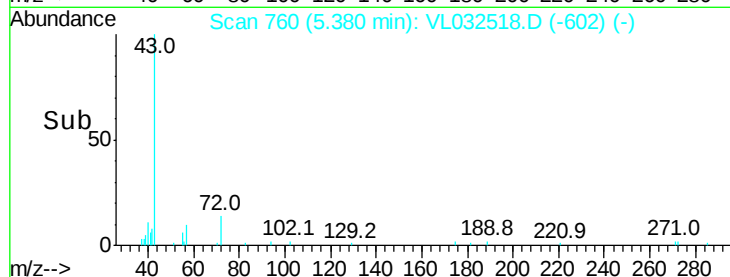
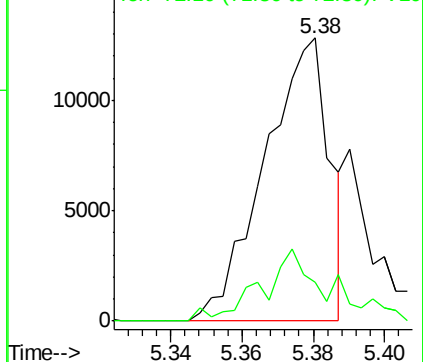
43 100

72 26.3 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.111 ppbv

RT: 7.16 min Scan# 1313

Delta R.T. -0.03 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

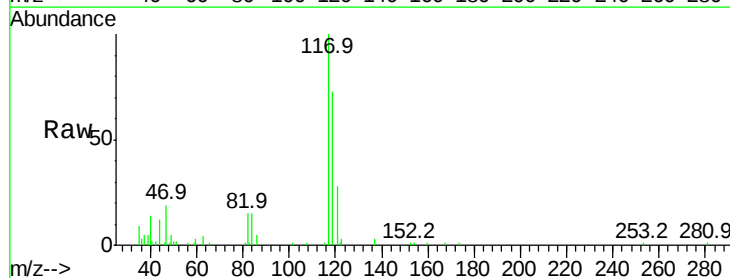
Tgt Ion: 117 Resp: 26772

Ion Ratio Lower Upper

117 100

119 70.7 76.6 115.0#

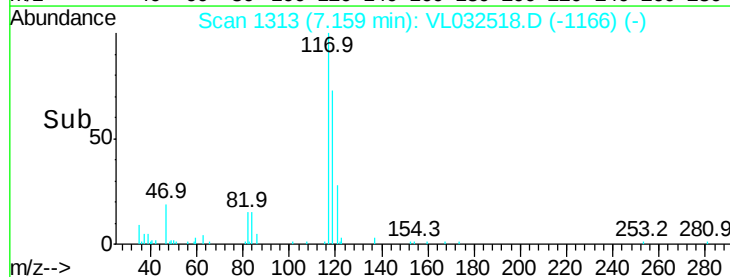
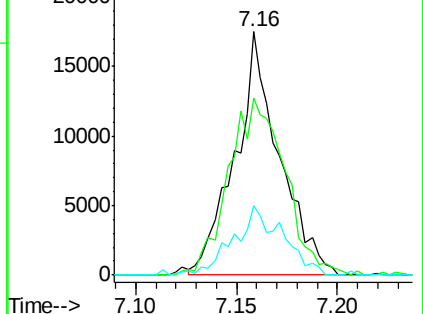
121 28.3 24.6 36.8

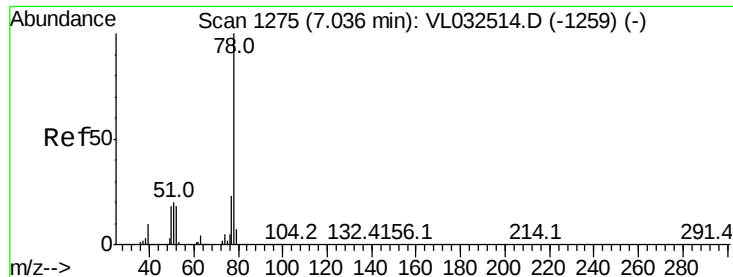


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.047 ppbv

RT: 7.03 min Scan# 1272

Delta R.T. -0.03 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

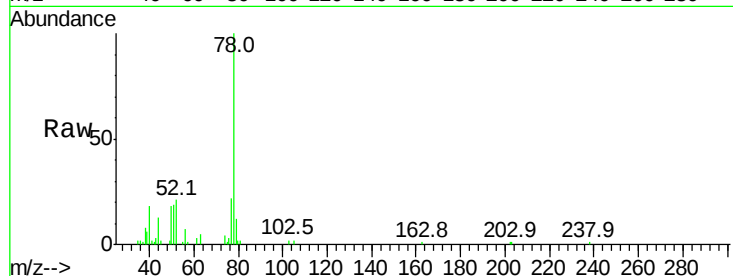
Tgt Ion: 78 Resp: 14518

Ion Ratio Lower Upper

78 100

77 21.8 18.4 27.6

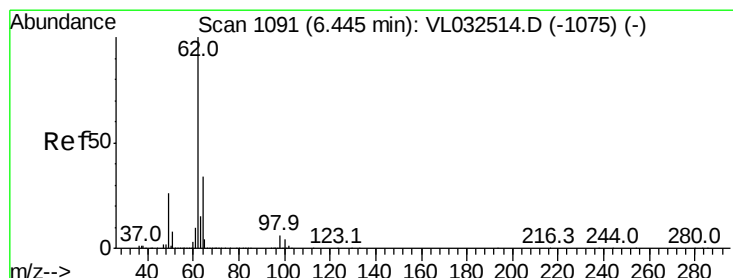
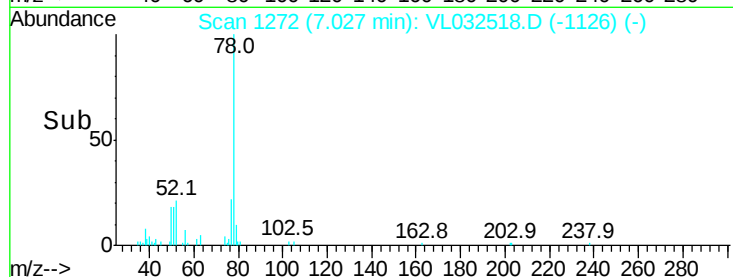
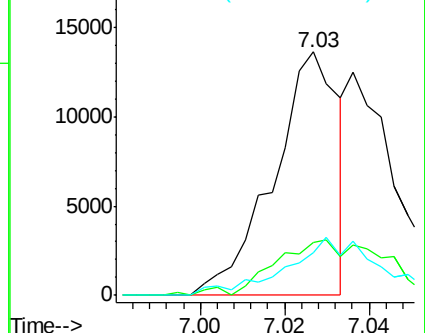
50 16.4 14.4 21.6



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.104 ppbv

RT: 6.44 min Scan# 1088

Delta R.T. -0.03 min

Lab File: VL032518.D

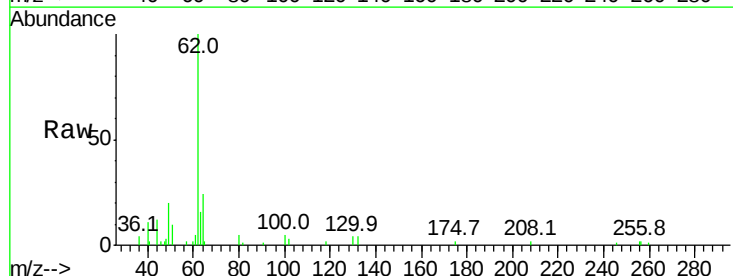
Acq: 24 Sep 2018 19:02

Tgt Ion: 62 Resp: 19429

Ion Ratio Lower Upper

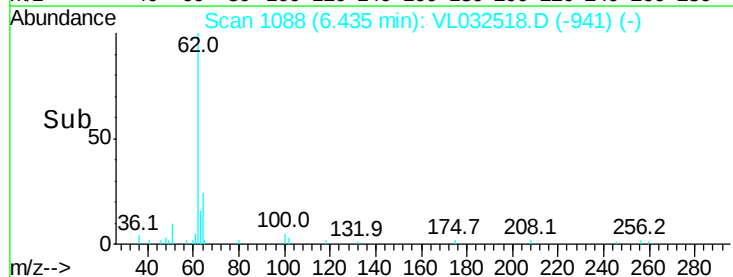
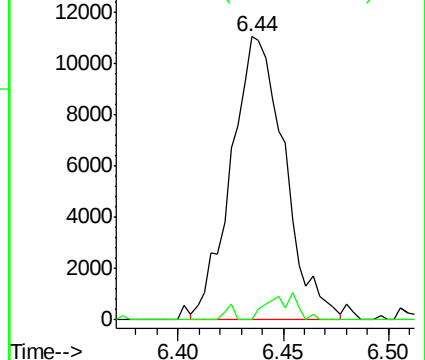
62 100

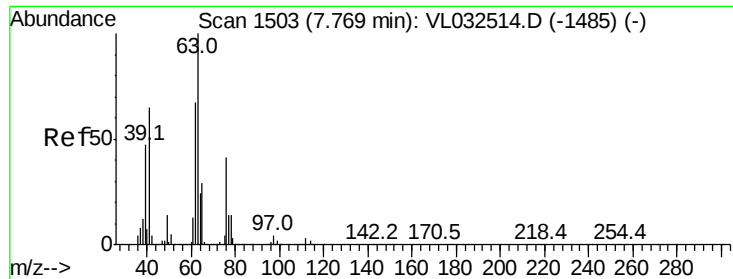
98 5.8 5.0 7.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 7.544 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.47 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

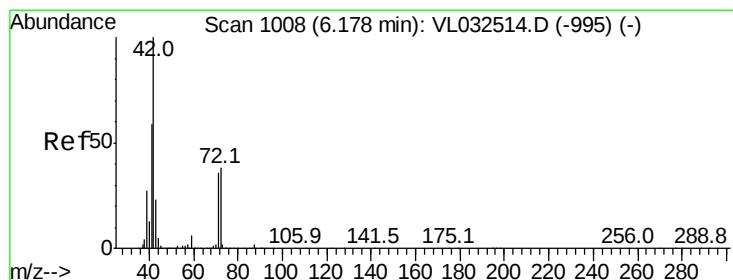
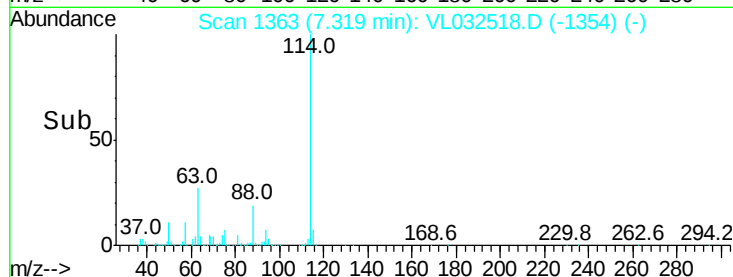
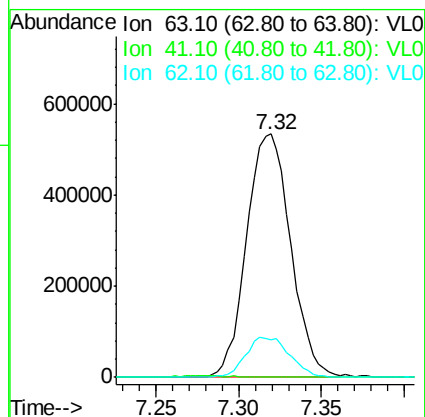
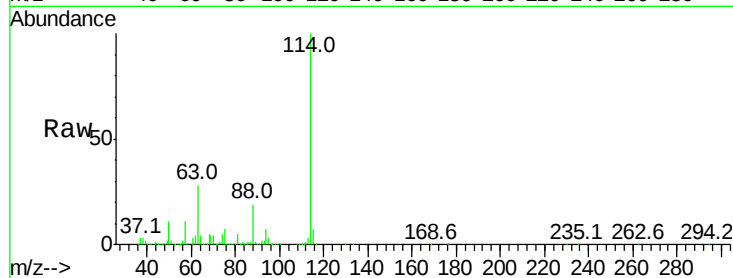
Tgt Ion: 63 Resp: 986979

Ion Ratio Lower Upper

63 100

41 0.1 55.4 83.0#

62 15.7 55.4 83.0#



#41

Tetrahydrofuran

Concen: 0.064 ppbv

RT: 6.21 min Scan# 1017

Delta R.T. 0.01 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

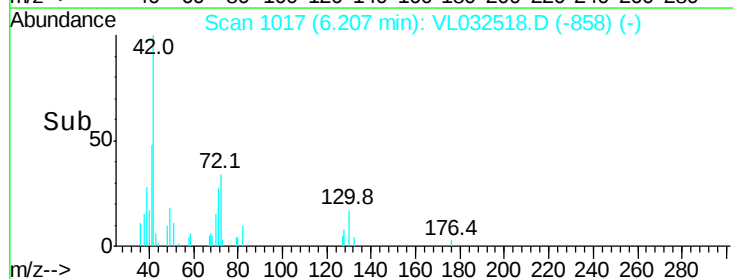
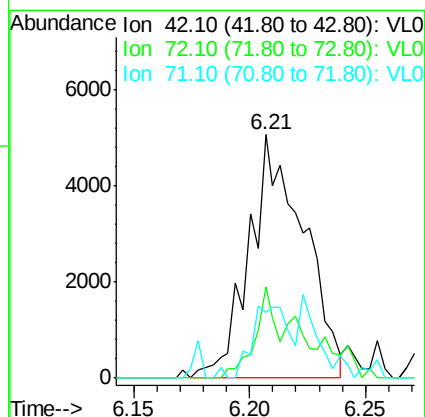
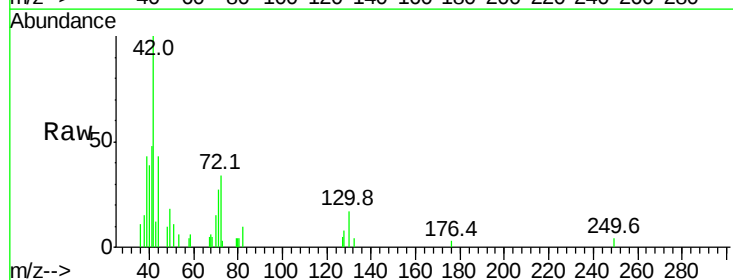
Tgt Ion: 42 Resp: 8294

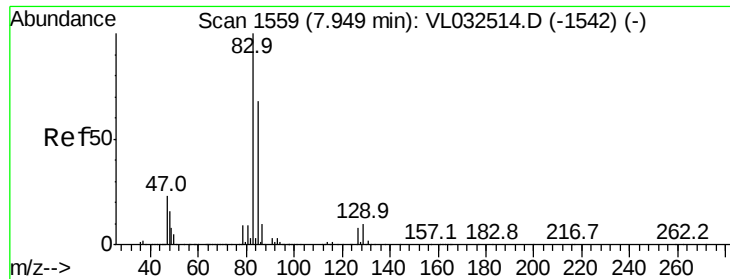
Ion Ratio Lower Upper

42 100

72 32.1 29.5 44.3

71 36.9 28.3 42.5





#42

Bromodichloromethane

Concen: 0.089 ppbv

RT: 7.94 min Scan# 1557

Delta R.T. -0.03 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

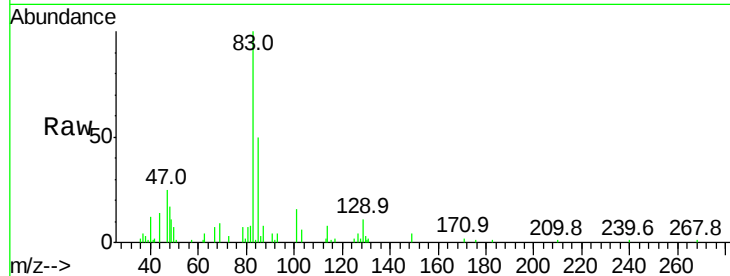
Tgt Ion: 83 Resp: 22983

Ion Ratio Lower Upper

83 100

85 45.0 51.1 76.7#

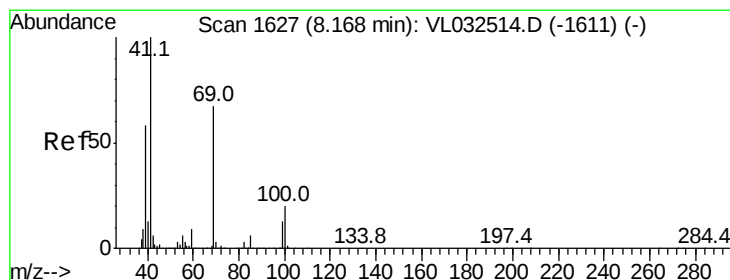
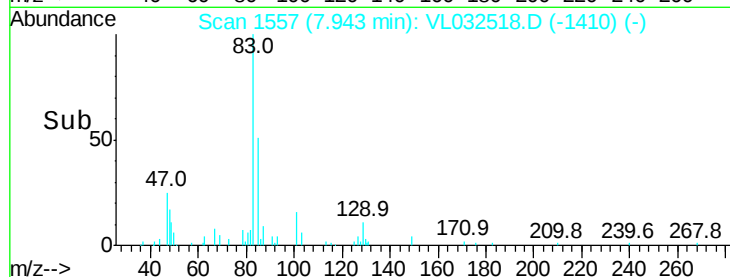
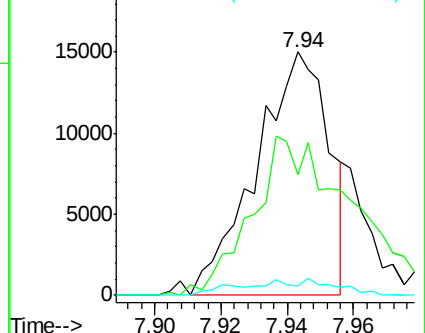
127 3.7 5.8 8.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.030 ppbv

RT: 8.17 min Scan# 1628

Delta R.T. -0.02 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

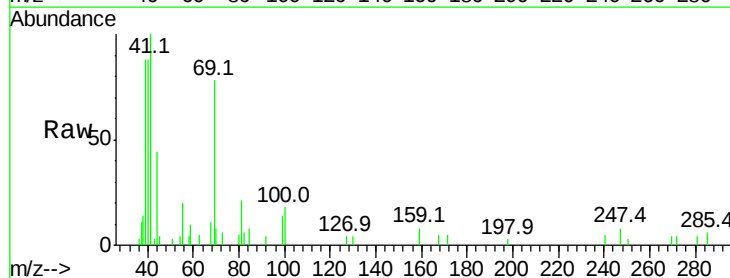
Tgt Ion: 69 Resp: 3946

Ion Ratio Lower Upper

69 100

41 0.0 117.1 175.7#

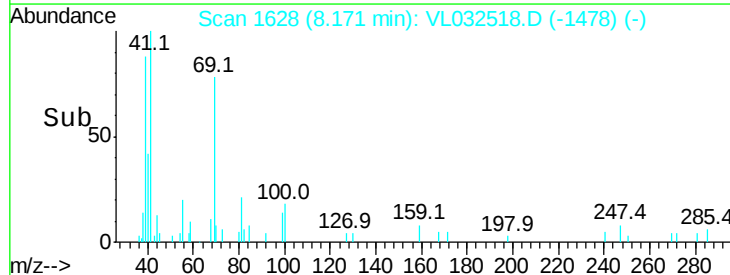
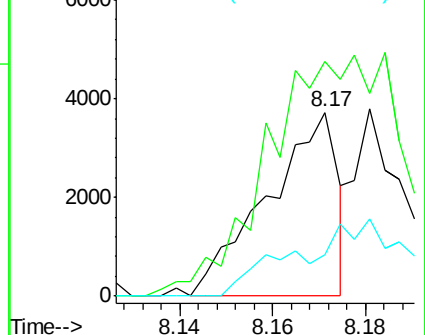
100 0.0 23.4 35.2#

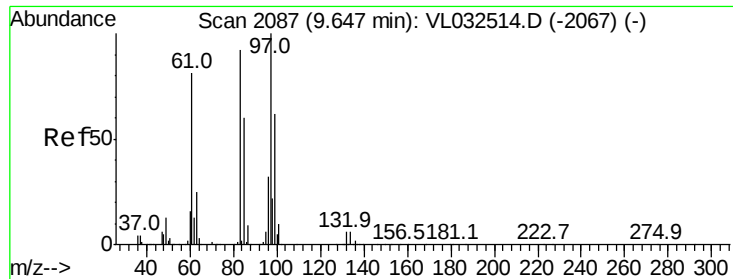


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#47

1,1,2-Trichloroethane

Concen: 0.068 ppbv

RT: 9.64 min Scan# 2086

Delta R.T. -0.03 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 9440

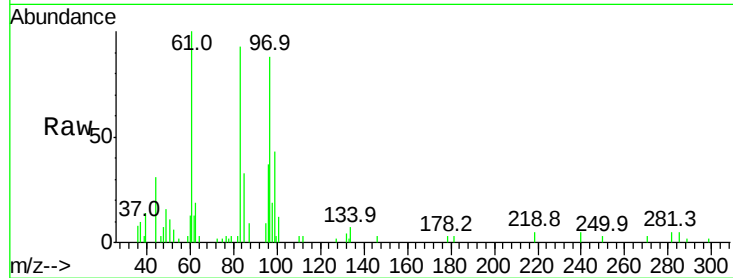
Ion Ratio Lower Upper

97 100

83 109.8 75.0 112.4

85 17.6 47.5 71.3#

99 50.6 49.0 73.6

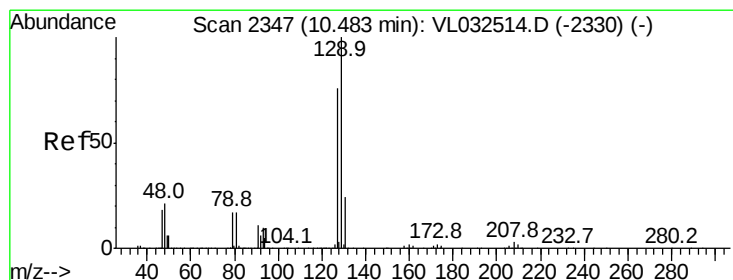
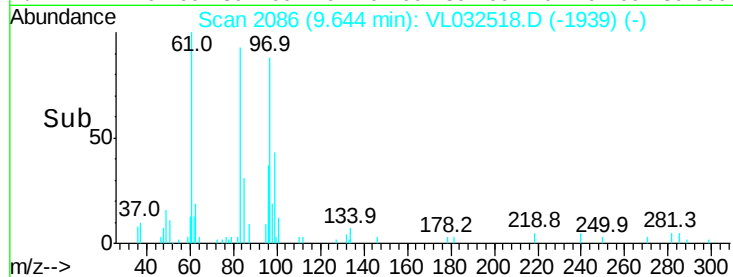
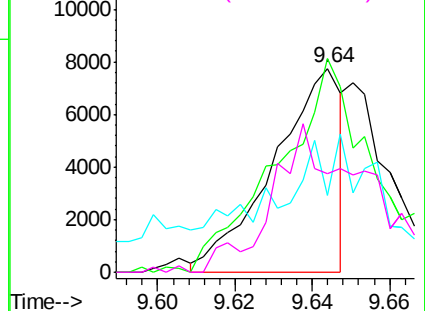


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.072 ppbv

RT: 10.48 min Scan# 2347

Delta R.T. -0.02 min

Lab File: VL032518.D

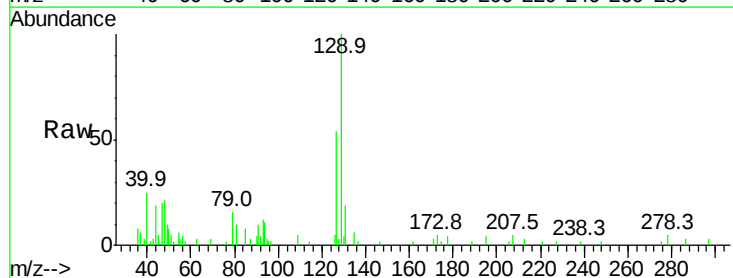
Acq: 24 Sep 2018 19:02

Tgt Ion: 129 Resp: 13959

Ion Ratio Lower Upper

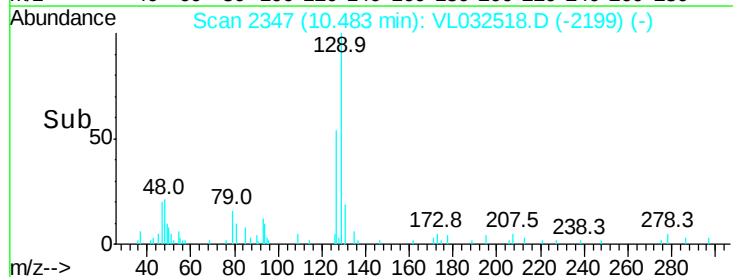
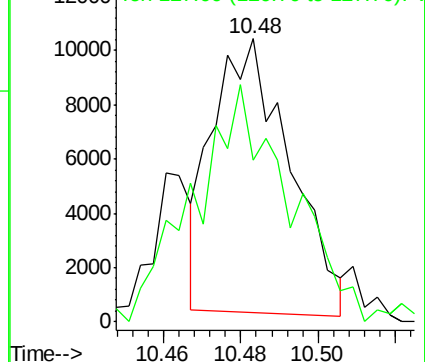
129 100

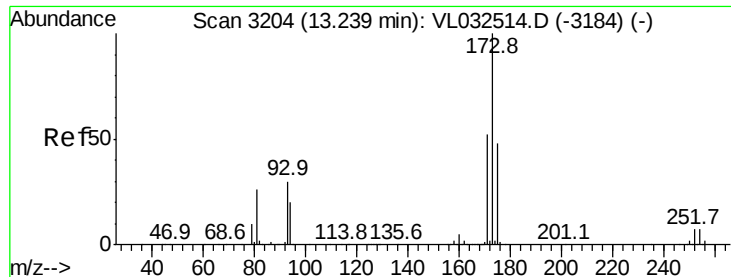
127 111.5 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.080 ppbv

RT: 13.23 min Scan# 3202

Delta R.T. -0.03 min

Lab File: VL032518.D

Acq: 24 Sep 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

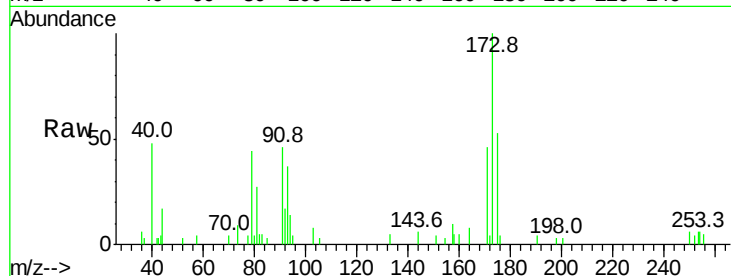
Tgt Ion:173 Resp: 13325

Ion Ratio Lower Upper

173 100

175 54.6 38.9 58.3

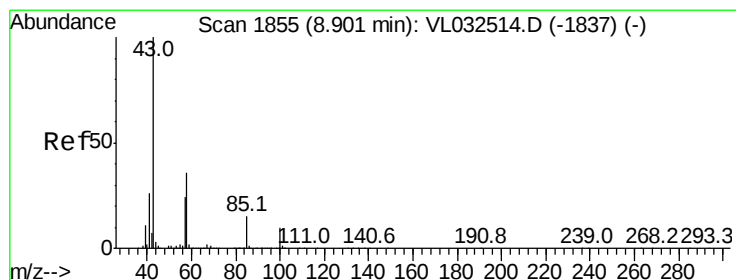
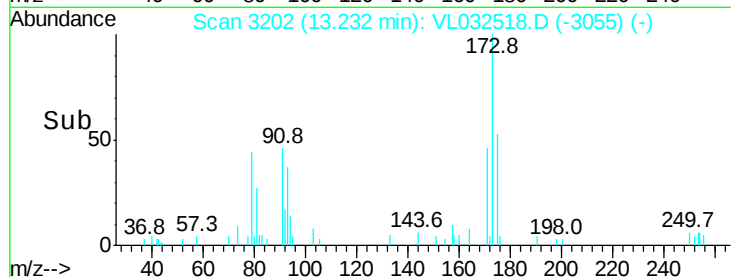
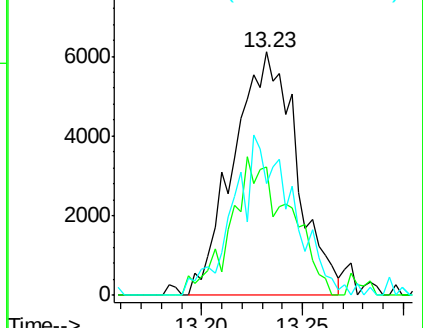
171 61.3 41.6 62.4



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



#50

4-Methyl-2-Pentanone

Concen: 0.051 ppbv

RT: 8.93 min Scan# 1864

Delta R.T. 0.01 min

Lab File: VL032518.D

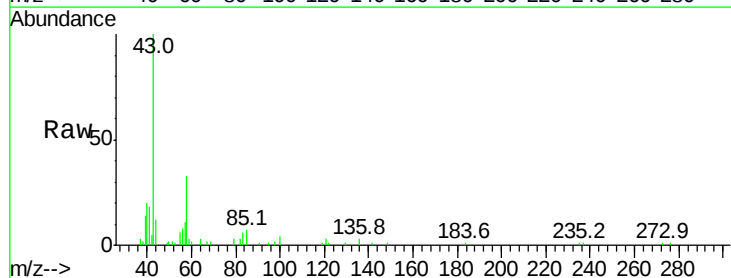
Acq: 24 Sep 2018 19:02

Tgt Ion: 43 Resp: 18398

Ion Ratio Lower Upper

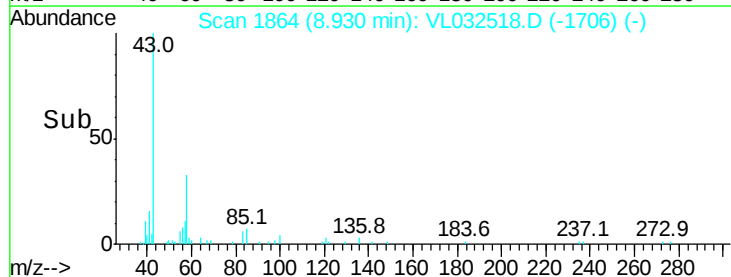
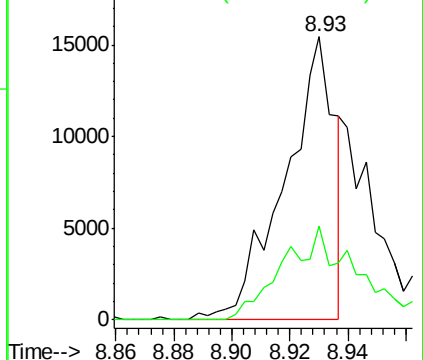
43 100

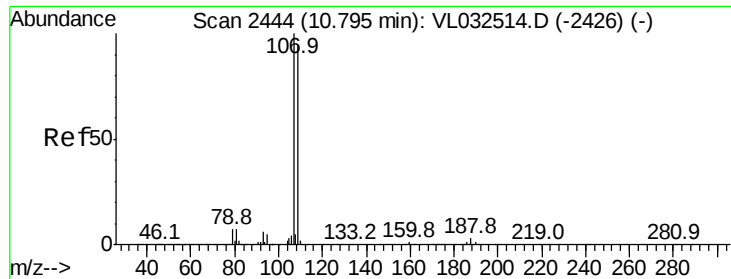
58 48.9 29.0 43.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

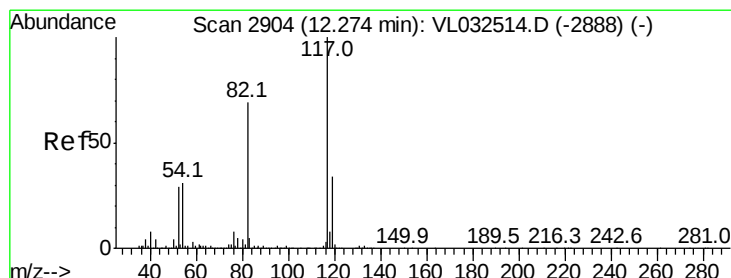
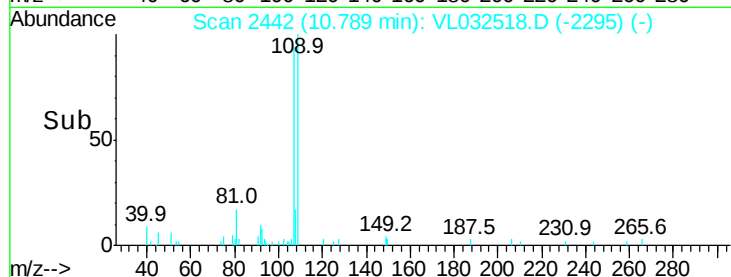
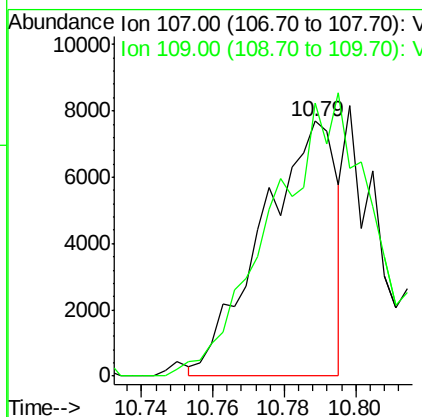
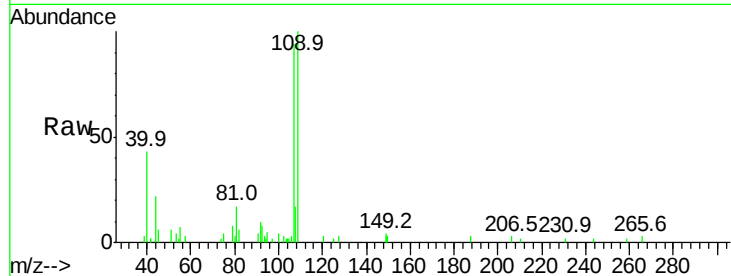




#54
 1,2-Dibromoethane
 Concen: 0.059 ppbv
 RT: 10.79 min Scan# 2442
 Delta R.T. -0.03 min
 Lab File: VL032518.D
 Acq: 24 Sep 2018 19:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:107 Resp: 11032
 Ion Ratio Lower Upper
 107 100
 109 105.1 73.9 110.9



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.27 min Scan# 2903
 Delta R.T. -0.03 min
 Lab File: VL032518.D
 Acq: 24 Sep 2018 19:02

Tgt Ion:117 Resp: 3546057
 Ion Ratio Lower Upper
 117 100
 82 67.9 53.0 79.6
 119 33.1 45.9 68.9#

