

Data File : VL032655.D

Acq On : 18 Oct 2018 17:24

Operator : SY/AP

Sample : VSTDIC001

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Quant Time: Oct 18 19:16:09 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 11:41:40 2018

QLast Update : Thu Oct 18 11:41:40 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1757483	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4179442	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4023607	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	3020181	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.09	85	244829	1.412	ppbv	99
3) Chlorodifluoromethane	3.03	51	146515	0.996	ppbv	96
4) Chloromethane	3.18	50	78633	0.980	ppbv	95
5) Vinyl Chloride	3.30	62	81532	1.008	ppbv	93
6) Bromomethane	3.53	94	63089	1.235	ppbv	98
7) Chloroethane	3.62	64	37875	1.196	ppbv #	88
8) Dichlorotetrafluoroethane	3.23	85	204652	1.033	ppbv	95
9) Propene	3.05	41	56713	1.052	ppbv	99
10) Heptane	8.26	43	216728	1.074	ppbv	100
11) Trichlorofluoromethane	4.02	101	283234	1.255	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.57	101	208043	1.259	ppbv	95
13) Ethanol	3.68	45	16928	1.015	ppbv	79
14) Bromoethene	3.80	108	75346	1.246	ppbv	97
15) Acetone	3.92	43	195653	1.251	ppbv	98
16) 1,3-Butadiene	3.38	39	58988	1.019	ppbv	90
17) tert-Butyl alcohol	4.39	59	41914	2.936	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	89873	1.206	ppbv	93
19) Isopropyl Alcohol	4.05	45	142383	1.289	ppbv #	96
20) Methylene Chloride	4.42	84	90195	1.287	ppbv	98
21) Allyl Chloride	4.49	41	120313	1.025	ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	86837	1.008	ppbv	86
23) Vinyl Acetate	5.17	43	297471	1.196	ppbv	98
24) 1,1-Dichloroethane	5.10	63	239645	1.039	ppbv #	99
25) Ethyl Acetate	5.79	43	392080	1.059	ppbv	100
26) Hexane	5.80	57	184522	1.107	ppbv	98
27) Carbon Disulfide	4.64	76	208444	1.035	ppbv #	94
28) Methyl tert-Butyl Ether	5.14	73	260370	1.243	ppbv	100
29) Chloroform	5.86	83	301359	1.032	ppbv	97
30) Cyclohexane	7.26	84	132001	1.004	ppbv	91
31) cis-1,2-Dichloroethene	5.66	61	159605	0.997	ppbv	93
32) 1,1,1-Trichloroethane	6.63	97	277945	0.954	ppbv	100
34) 2-Butanone	5.35	43	243767	1.051	ppbv	98
35) Carbon Tetrachloride	7.15	117	296039	0.914	ppbv	96
36) Benzene	7.02	78	343818	1.015	ppbv	94
37) 1,2-Dichloroethane	6.43	62	214488	0.923	ppbv	98
38) Trichloroethene	7.98	130	133400	1.047	ppbv	98
39) 1,2-Dichloropropane	7.75	63	134203	0.974	ppbv	96
40) 1,4-Dioxane	8.00	88	36584	0.768	ppbv #	62
41) Tetrahydrofuran	6.18	42	117644	0.956	ppbv	98
42) Bromodichloromethane	7.93	83	299490	0.946	ppbv	89
43) Methyl Methacrylate	8.16	69	118225	0.900	ppbv	96

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Oct 18 19:16:09 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 11:41:40 2018
QLast Update : Thu Oct 18 11:41:40 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	617777	1.029	ppbv	97
45) t-1,3-Dichloropropene	9.43	75	143095	0.833	ppbv	97
46) cis-1,3-Dichloropropene	8.85	75	179984	0.920	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	153086	0.930	ppbv	93
48) Dibromochloromethane	10.47	129	249419	0.892	ppbv	100
49) Bromoform	13.22	173	201896	0.955	ppbv	100
50) 4-Methyl-2-Pentanone	8.90	43	340688	0.998	ppbv	97
51) 2-Hexanone	10.31	43	229995	0.857	ppbv #	94
52) Tetrachloroethene	11.39	164	113306	1.016	ppbv	93
53) Toluene	9.97	91	375833	0.973	ppbv	99
54) 1,2-Dibromoethane	10.78	107	204552	0.867	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.29	131	189113	1.024	ppbv #	1
57) Chlorobenzene	12.32	112	317261	1.037	ppbv	98
58) Ethyl Benzene	12.88	91	471129	1.043	ppbv	98
59) m/p-Xylene	13.17	91	368438	0.913	ppbv #	31
60) o-Xylene	13.87	91	431310	1.073	ppbv	99
61) Styrene	13.70	104	263062	1.080	ppbv	98
62) Isopropylbenzene	14.84	105	603185	1.053	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.85	83	333368	0.940	ppbv	99
64) n-propylbenzene	15.74	120	148907	1.026	ppbv	92
65) tert-Butylbenzene	16.93	119	523711	1.078	ppbv	99
66) Benzyl Chloride	17.17	91	227746	0.831	ppbv	98
67) sec-Butylbenzene	17.47	105	737446	1.008	ppbv	100
69) p-Isopropyltoluene	17.83	119	584364	1.056	ppbv	99
70) n-Butylbenzene	18.73	91	591820	0.971	ppbv	98
71) 2-Chlorotoluene	15.63	91	424884	1.004	ppbv	99
72) 4-Ethyltoluene	16.02	105	443997	1.022	ppbv	97
73) 1,3,5-Trimethylbenzene	16.17	105	438960	1.016	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	491339	1.033	ppbv #	81
75) 1,3-Dichlorobenzene	17.18	146	277554	1.004	ppbv	98
76) 1,4-Dichlorobenzene	17.32	146	244024	0.968	ppbv	97
77) 1,2-Dichlorobenzene	18.01	146	259763	0.977	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	134044	0.901	ppbv	99
79) Naphthalene	22.44	128	232030	0.717	ppbv #	95
80) Naphthalene,2-methyl-	25.14	142	19077	0.304	ppbv #	89
81) 1,2,4-Trichlorobenzene	22.15	180	62815	0.391	ppbv #	12

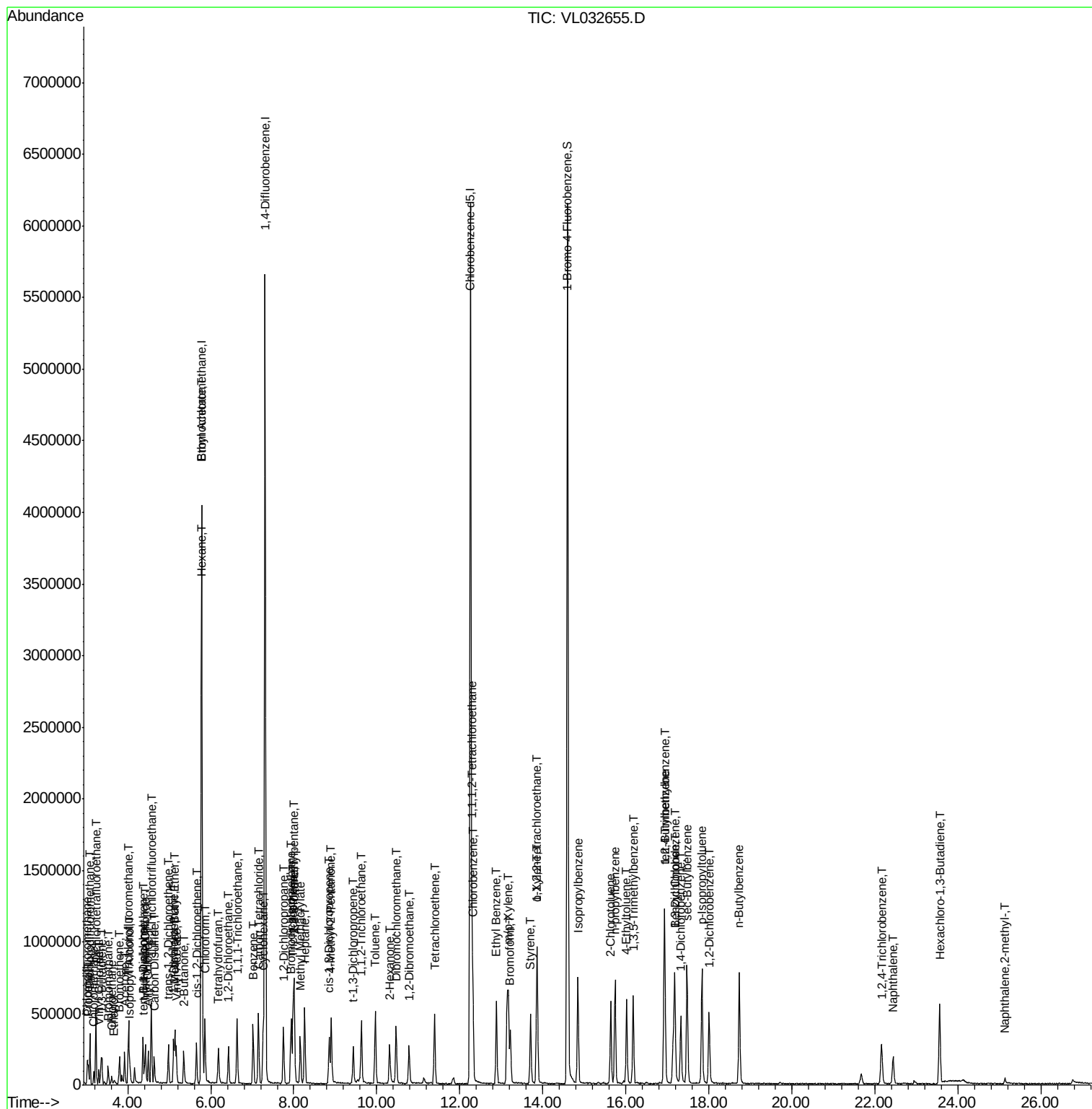
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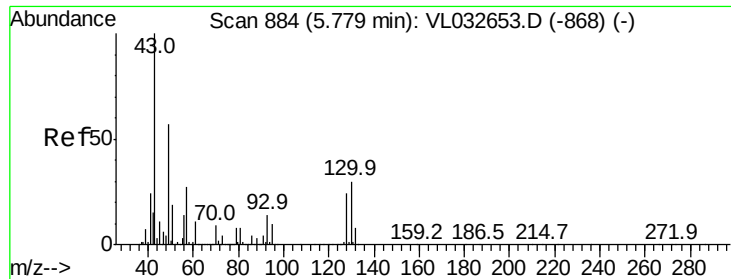
Data File : VL032655.D

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Acq On       : 18 Oct 2018 17:24
Operator     : SY/AP
Sample       : VSTDICC001
Misc         : 400ml/MSVOA_L
ALS Vial     : 1      Sample Multipl
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Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Oct 18 19:16:09 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

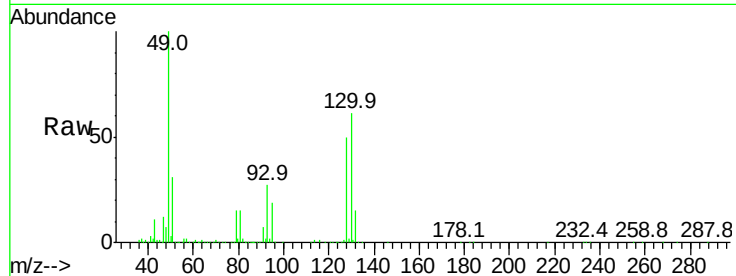
Tgt Ion: 49 Resp: 1757483

Ion Ratio Lower Upper

49 100

128 49.4 22.3 66.8

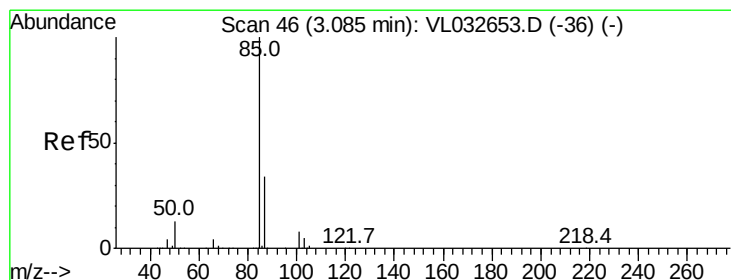
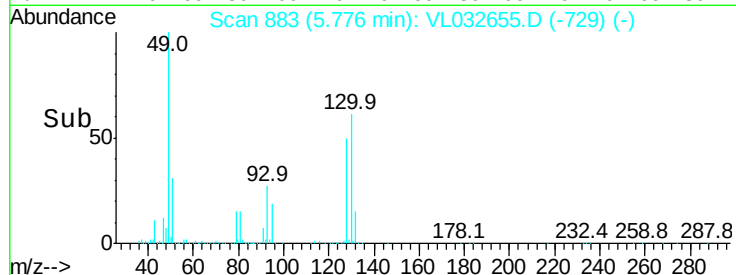
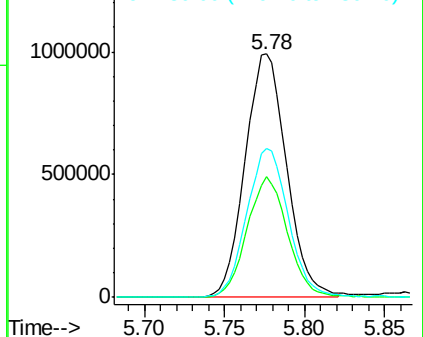
130 62.2 28.4 85.3



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: 1.412 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032655.D

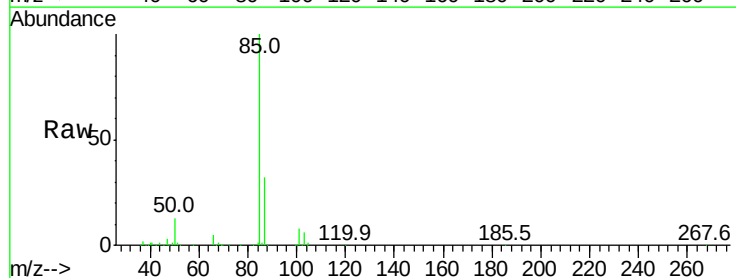
Acq: 18 Oct 2018 17:24

Tgt Ion: 85 Resp: 244829

Ion Ratio Lower Upper

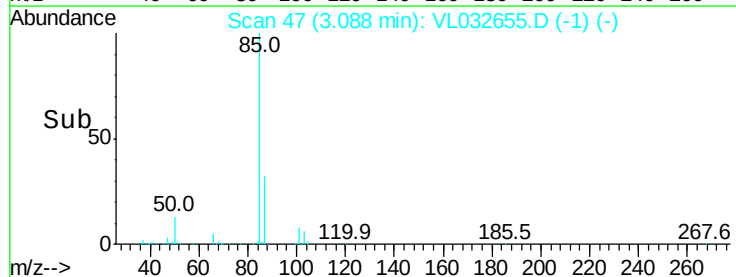
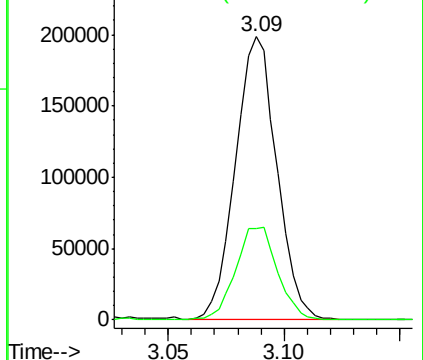
85 100

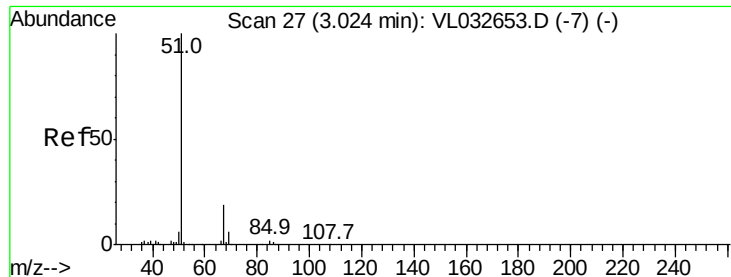
87 32.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.996 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

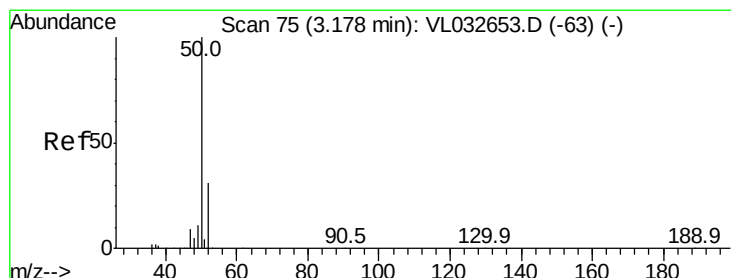
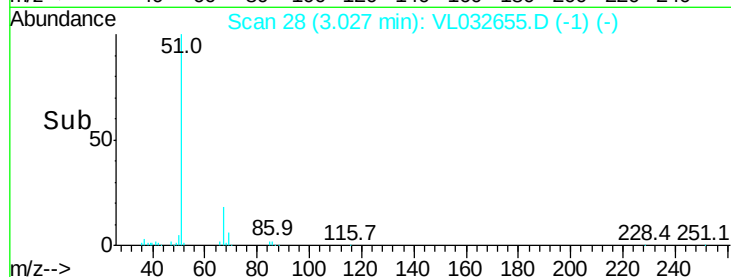
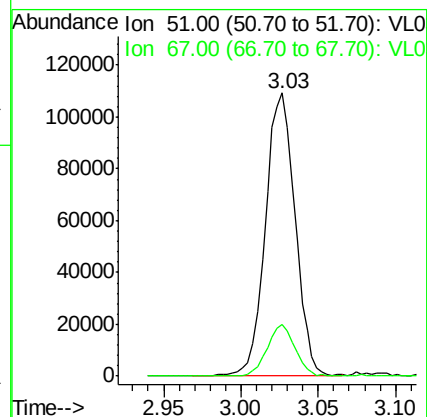
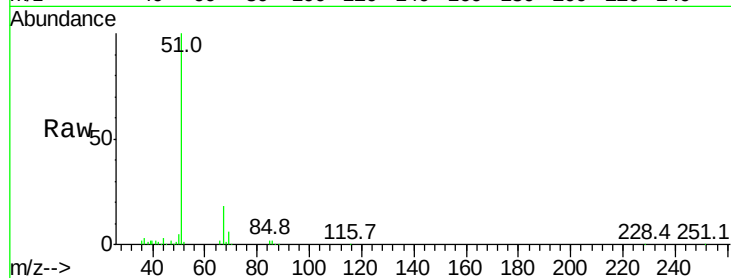
VSTDIC001

Tgt Ion: 51 Resp: 146515

Ion Ratio Lower Upper

51 100

67 17.1 15.2 22.8



#4

Chloromethane

Concen: 0.980 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032655.D

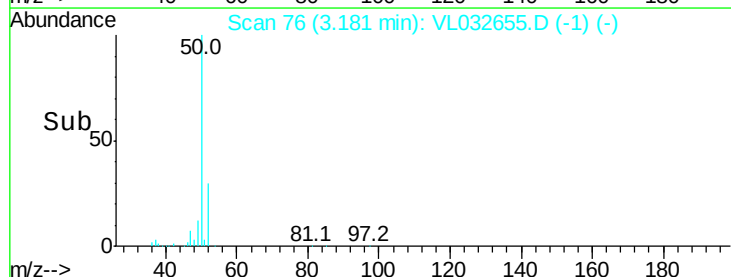
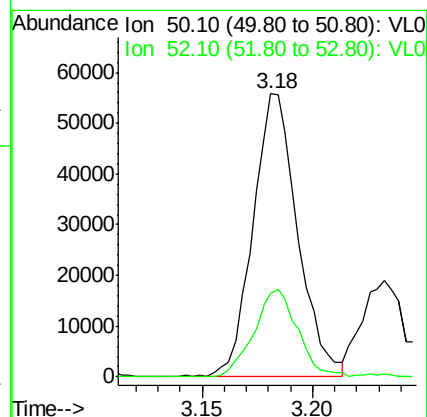
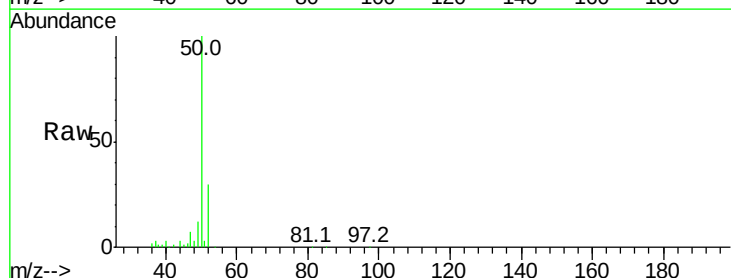
Acq: 18 Oct 2018 17:24

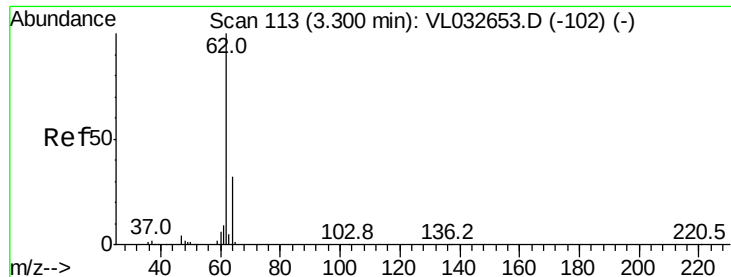
Tgt Ion: 50 Resp: 78633

Ion Ratio Lower Upper

50 100

52 29.7 25.9 38.9





#5

Vinyl Chloride

Concen: 1.008 ppbv

RT: 3.30 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

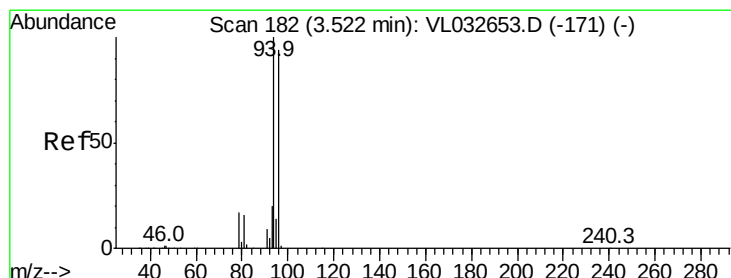
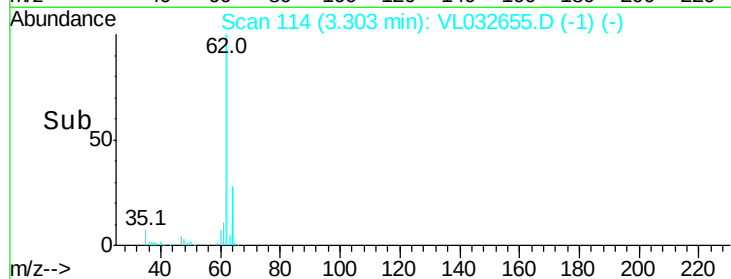
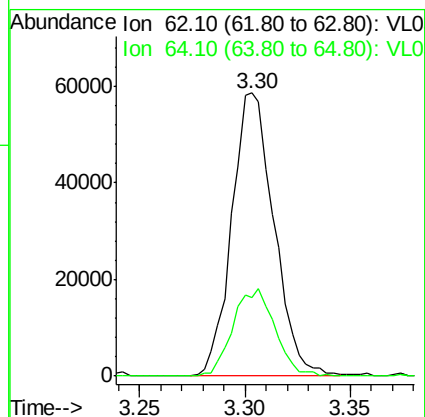
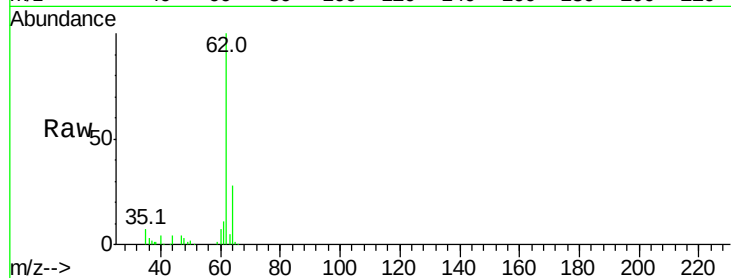
VSTDIC001

Tgt Ion: 62 Resp: 81532

Ion Ratio Lower Upper

62 100

64 27.7 25.5 38.3



#6

Bromomethane

Concen: 1.235 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032655.D

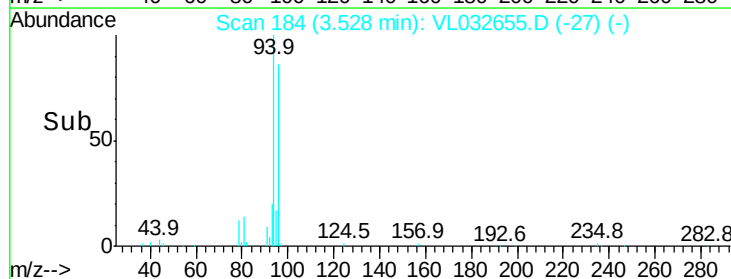
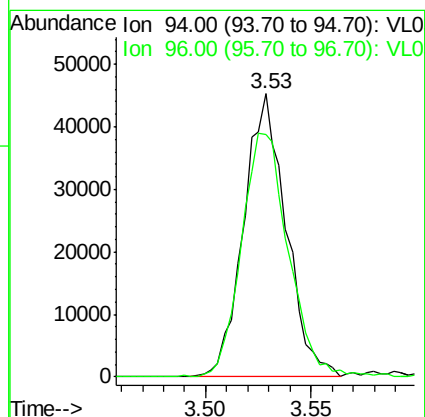
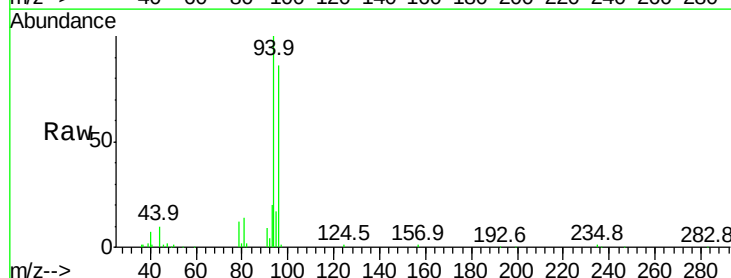
Acq: 18 Oct 2018 17:24

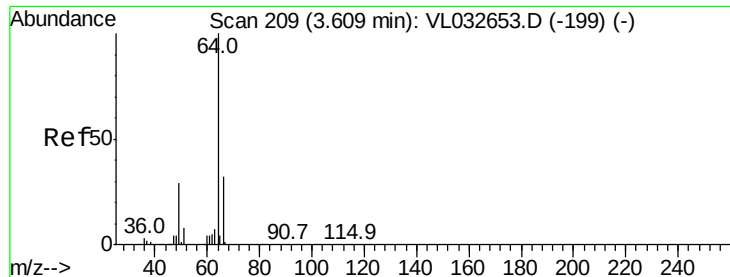
Tgt Ion: 94 Resp: 63089

Ion Ratio Lower Upper

94 100

96 85.5 69.8 104.8





#7

Chloroethane

Concen: 1.196 ppbv

RT: 3.62 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

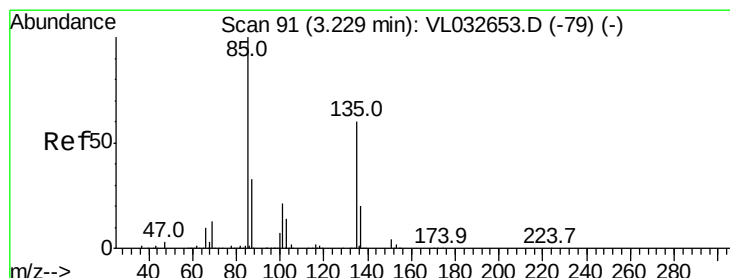
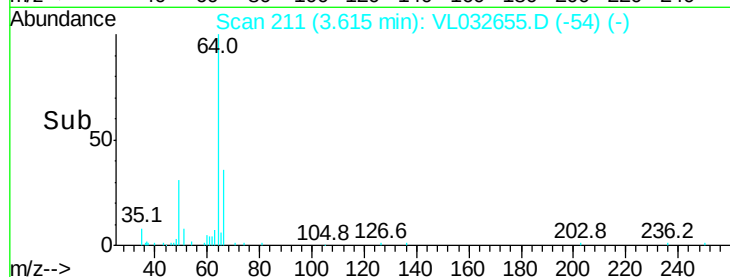
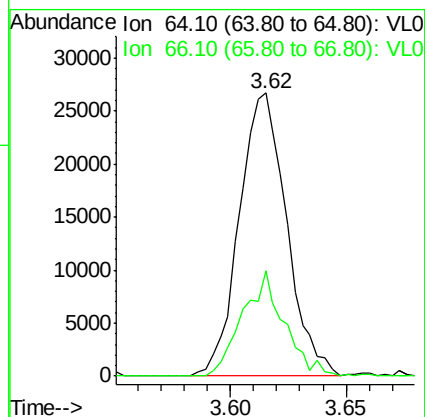
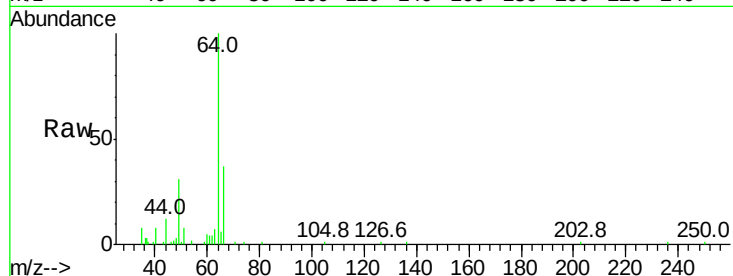
VSTDIC001

Tgt Ion: 64 Resp: 37875

Ion Ratio Lower Upper

64 100

66 37.1 24.4 36.6#



#8

Dichlorotetrafluoroethane

Concen: 1.033 ppbv

RT: 3.23 min Scan# 92

Delta R.T. 0.00 min

Lab File: VL032655.D

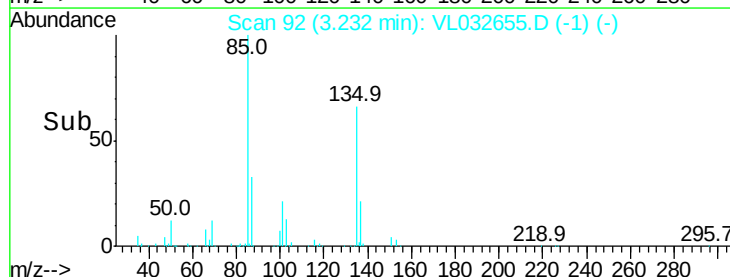
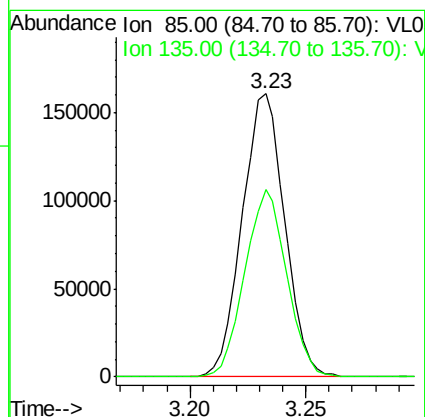
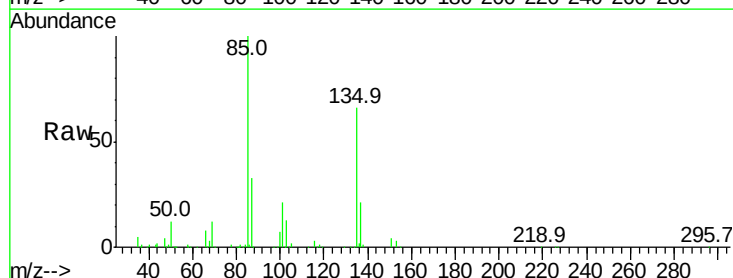
Acq: 18 Oct 2018 17:24

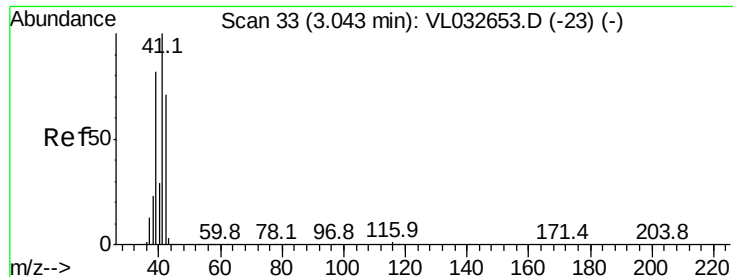
Tgt Ion: 85 Resp: 204652

Ion Ratio Lower Upper

85 100

135 65.1 49.0 73.4





#9

Propene

Concen: 1.052 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

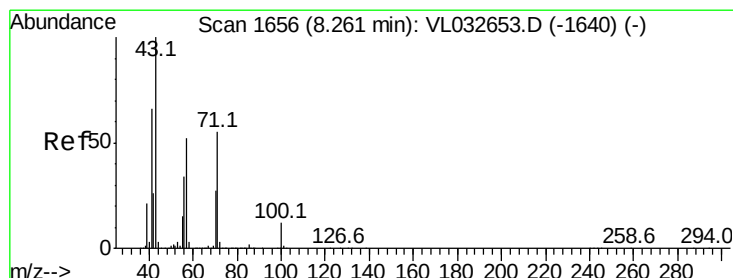
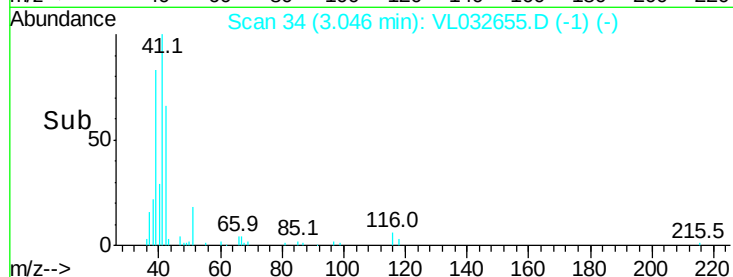
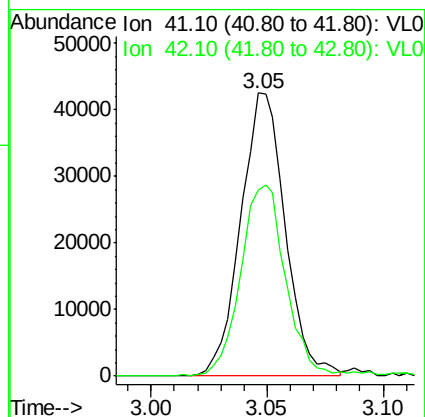
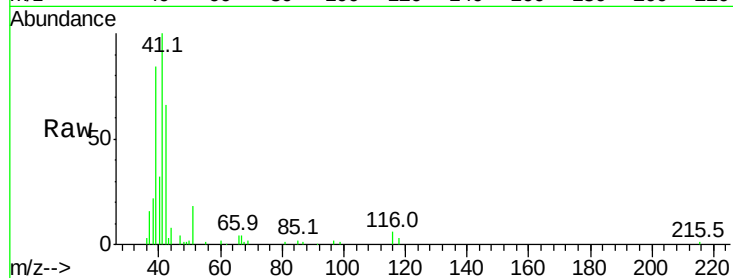
VSTDIC001

Tgt Ion: 41 Resp: 56713

Ion Ratio Lower Upper

41 100

42 70.3 55.4 83.0



#10

Heptane

Concen: 1.074 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. -0.00 min

Lab File: VL032655.D

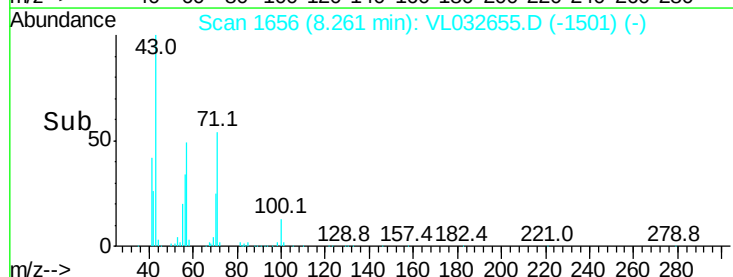
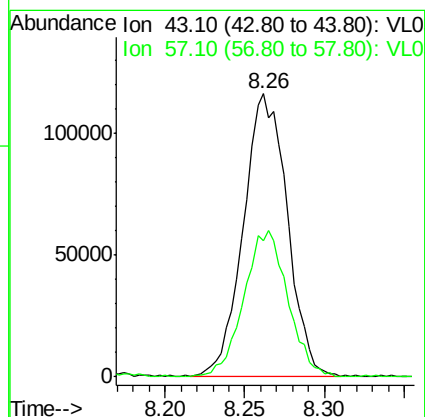
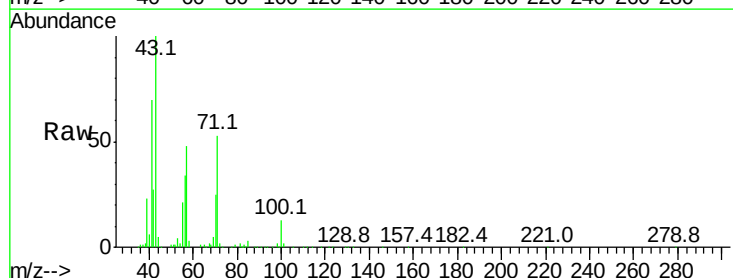
Acq: 18 Oct 2018 17:24

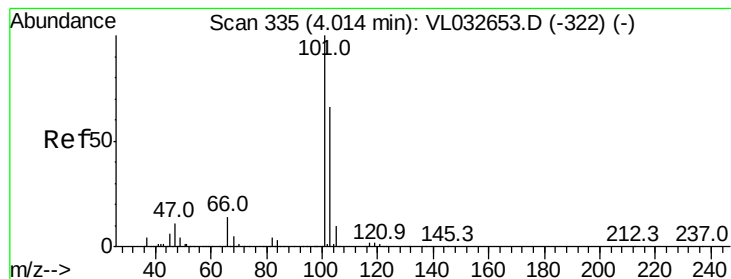
Tgt Ion: 43 Resp: 216728

Ion Ratio Lower Upper

43 100

57 52.1 41.5 62.3





#11

Trichlorofluoromethane

Concen: 1.255 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.01 min

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MSVOA_L

ClientSampleId :

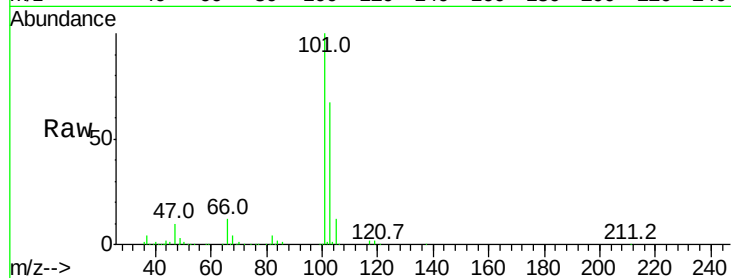
VSTDIC001

Tgt Ion:101 Resp: 283234

Ion Ratio Lower Upper

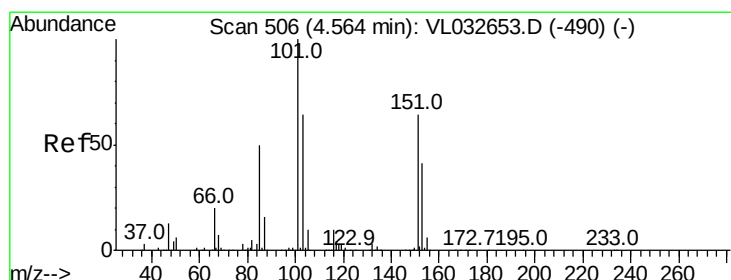
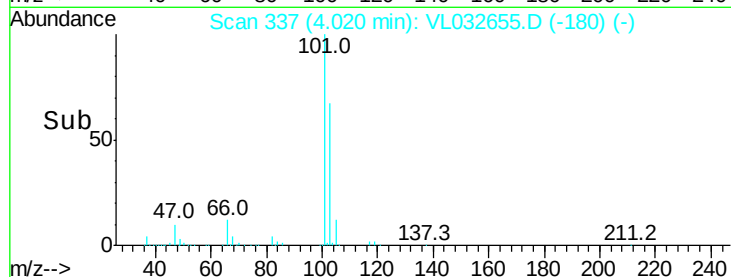
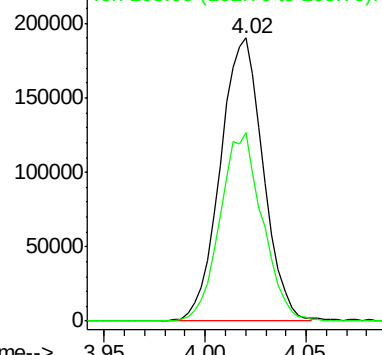
101 100

103 66.8 51.4 77.2



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: 1.259 ppbv

RT: 4.57 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL032655.D

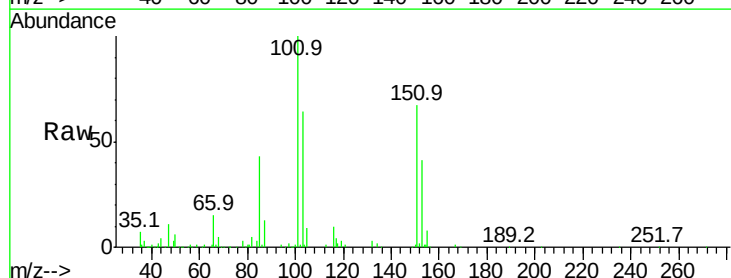
Acq: 18 Oct 2018 17:24

Tgt Ion:101 Resp: 208043

Ion Ratio Lower Upper

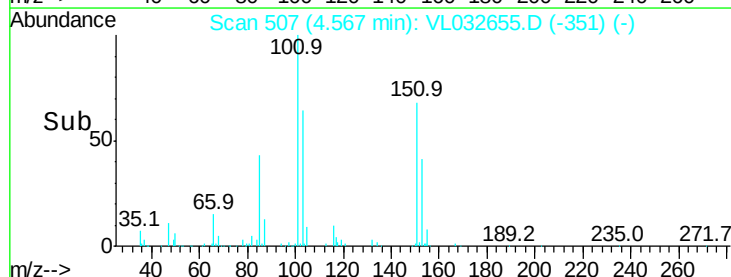
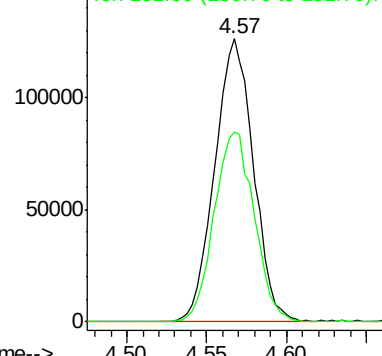
101 100

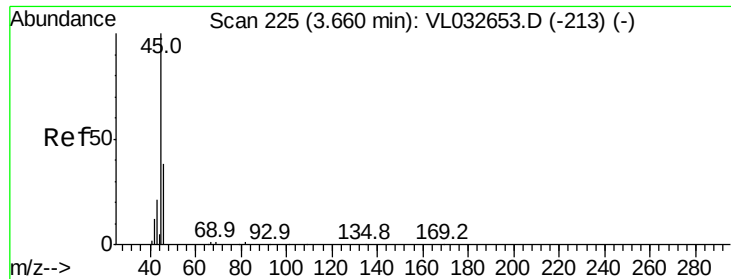
151 69.6 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.015 ppbv

RT: 3.68 min Scan# 230

Delta R.T. 0.02 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

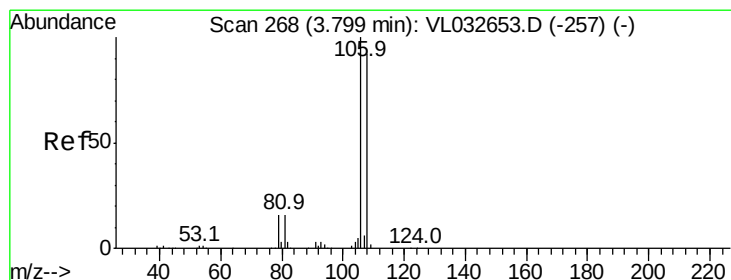
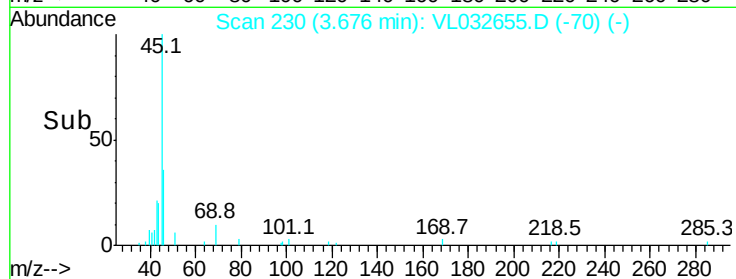
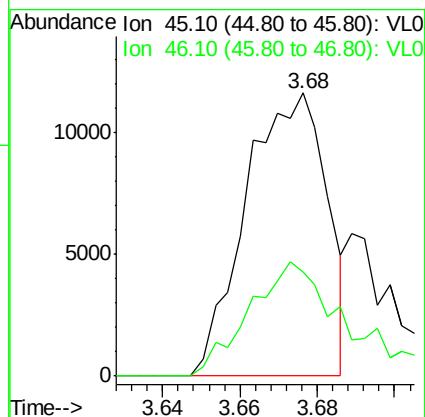
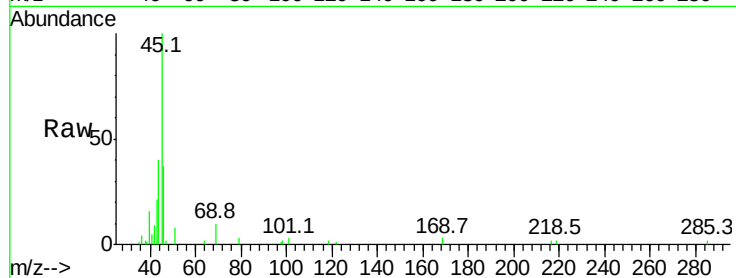
VSTDIC001

Tgt Ion: 45 Resp: 16928

Ion Ratio Lower Upper

45 100

46 51.2 15.4 61.8



#14

Bromoethene

Concen: 1.246 ppbv

RT: 3.80 min Scan# 268

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

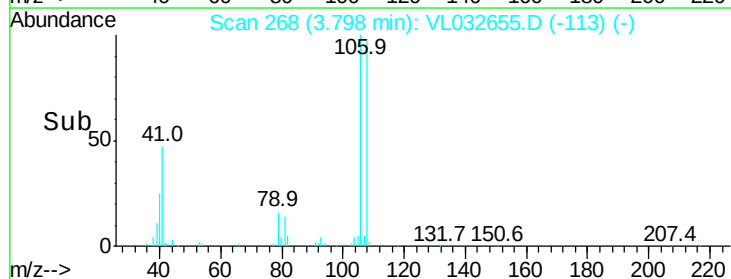
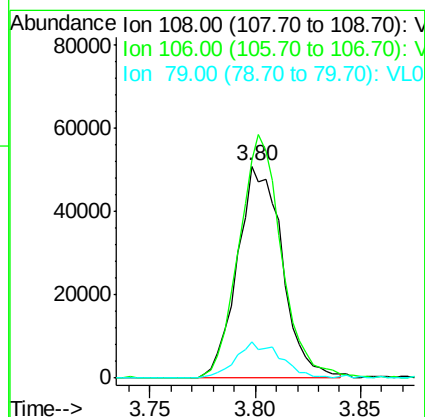
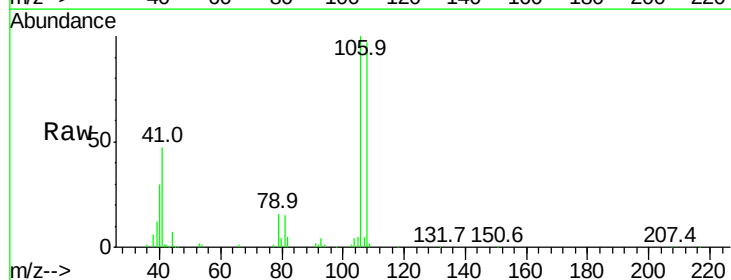
Tgt Ion: 108 Resp: 75346

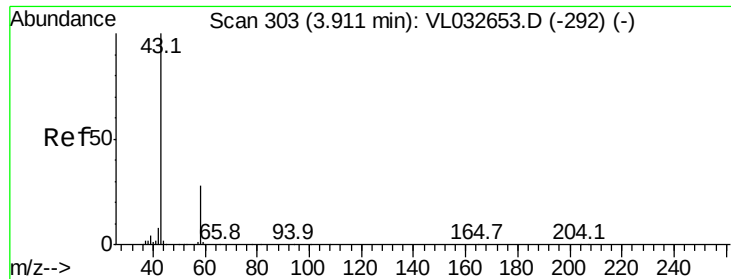
Ion Ratio Lower Upper

108 100

106 109.2 85.0 127.4

79 17.5 13.7 20.5





#15

Acetone

Concen: 1.251 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.01 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

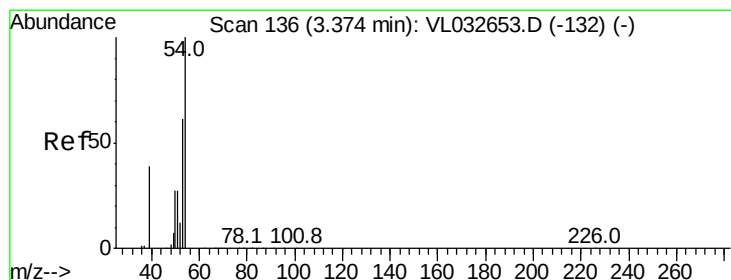
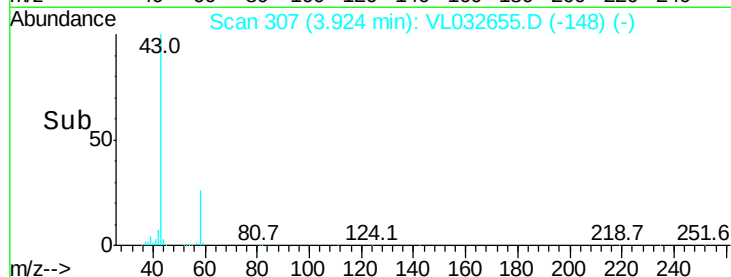
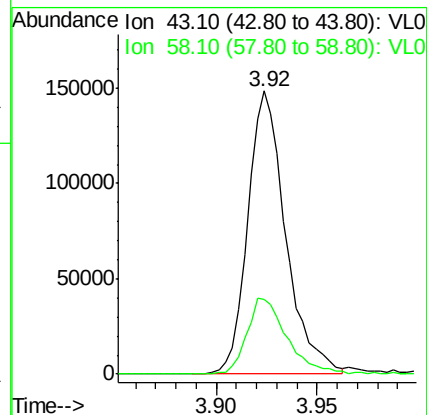
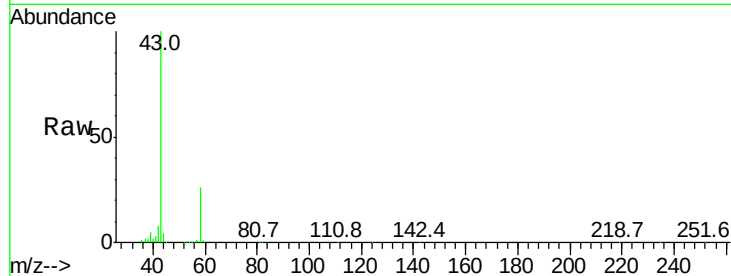
VSTDIC001

Tgt Ion: 43 Resp: 195653

Ion Ratio Lower Upper

43 100

58 28.7 22.1 33.1



#16

1,3-Butadiene

Concen: 1.019 ppbv

RT: 3.38 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL032655.D

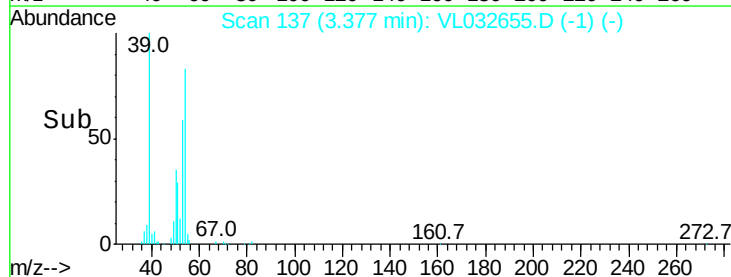
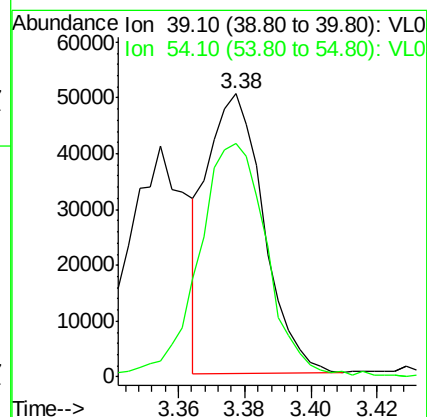
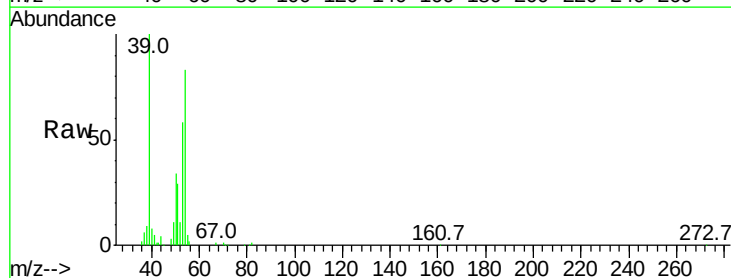
Acq: 18 Oct 2018 17:24

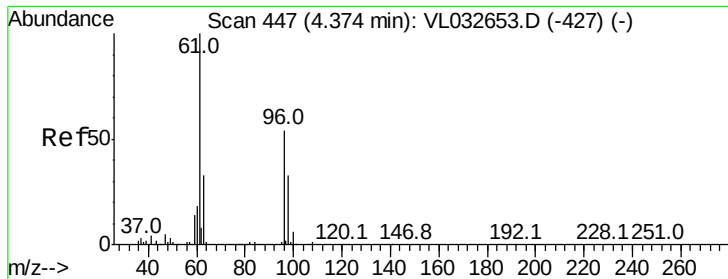
Tgt Ion: 39 Resp: 58988

Ion Ratio Lower Upper

39 100

54 102.5 90.4 135.6



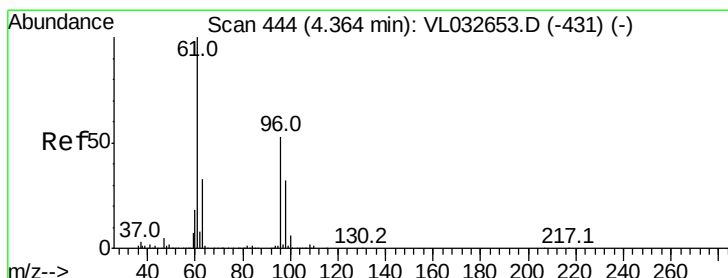
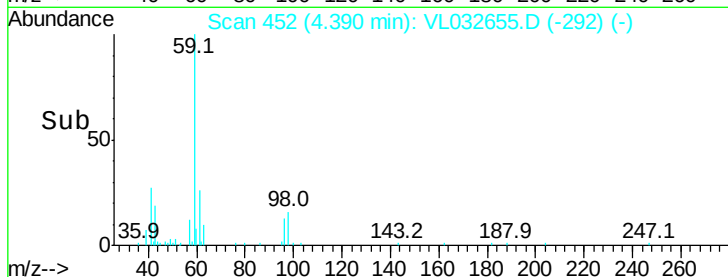
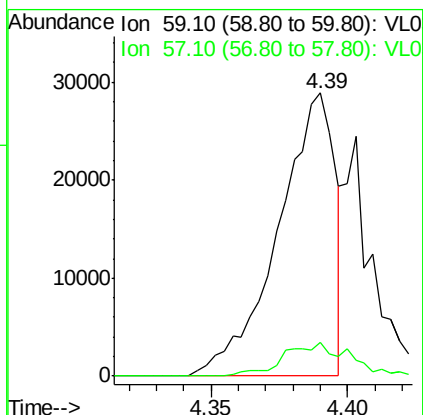
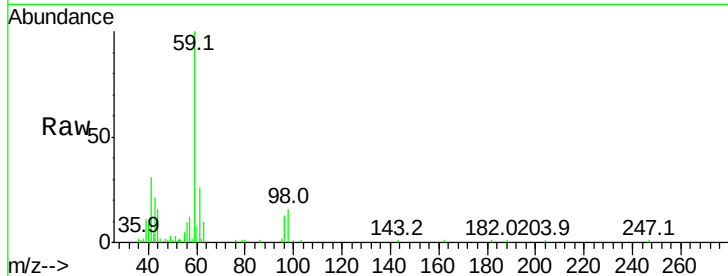


#17

tert-Butyl alcohol
Concen: 2.936 ppbv
RT: 4.39 min Scan# 452
Delta R.T. 0.02 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

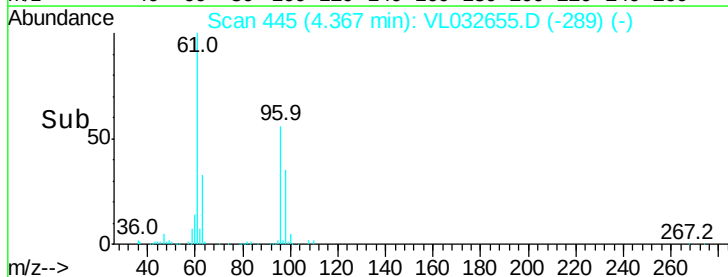
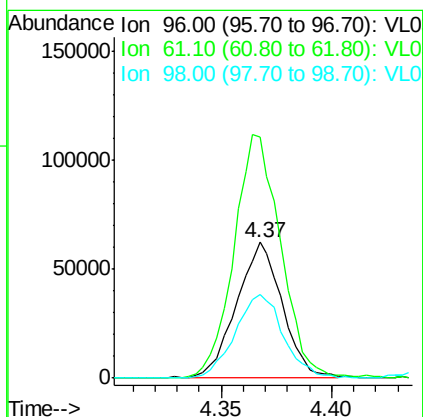
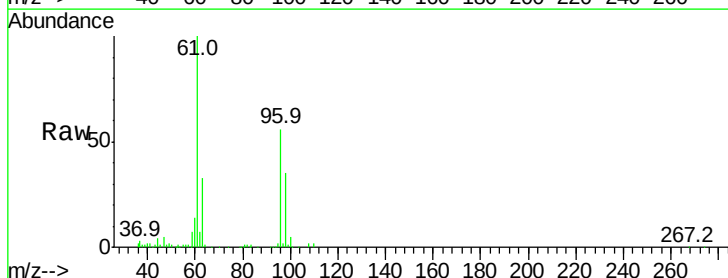
Tgt Ion: 59 Resp: 41914
Ion Ratio Lower Upper
59 100
57 14.3 0.0 0.0#

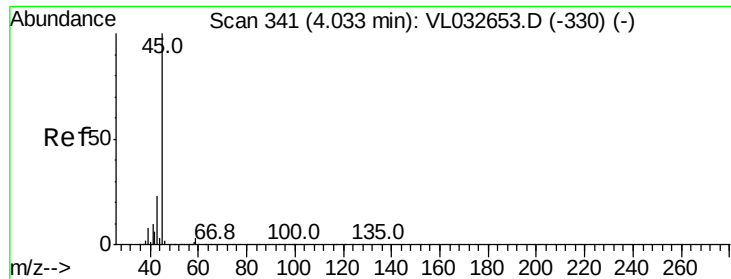


#18

1,1-Dichloroethene
Concen: 1.206 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion: 96 Resp: 89873
Ion Ratio Lower Upper
96 100
61 176.3 151.6 227.4
98 61.1 50.6 75.8

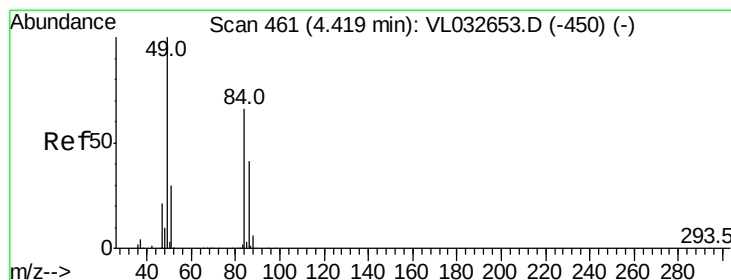
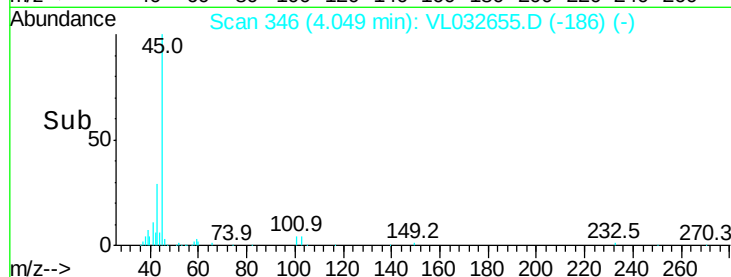
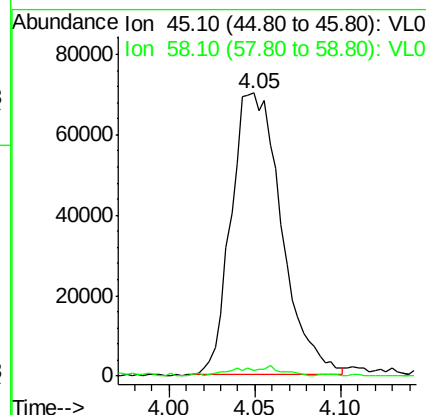
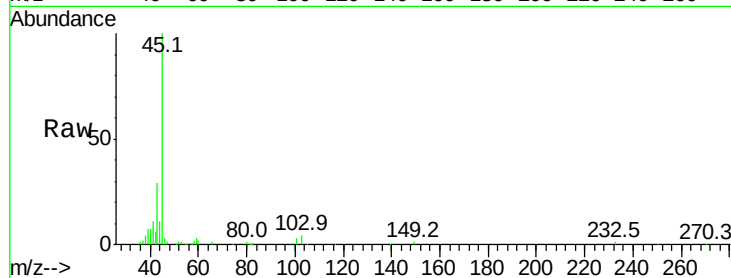




#19
Isopropyl Alcohol
Concen: 1.289 ppbv
RT: 4.05 min Scan# 346
Delta R.T. 0.02 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

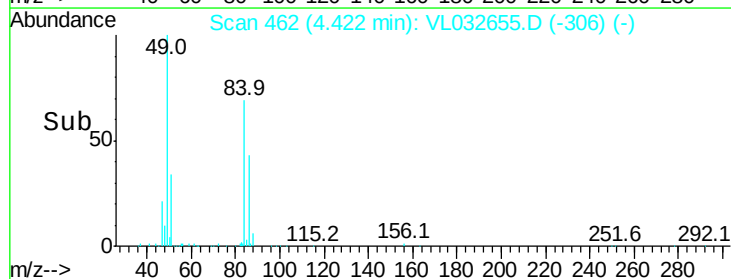
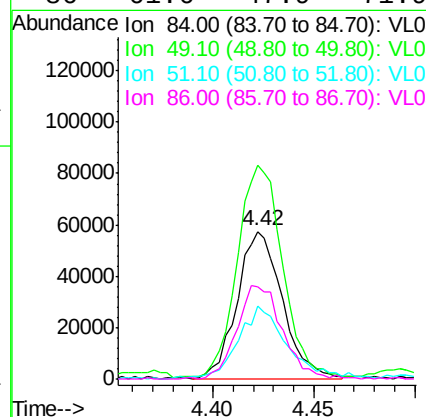
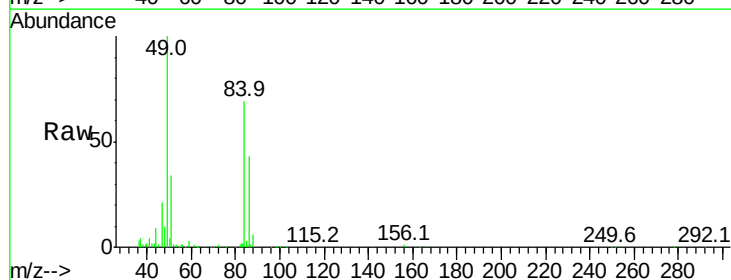
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

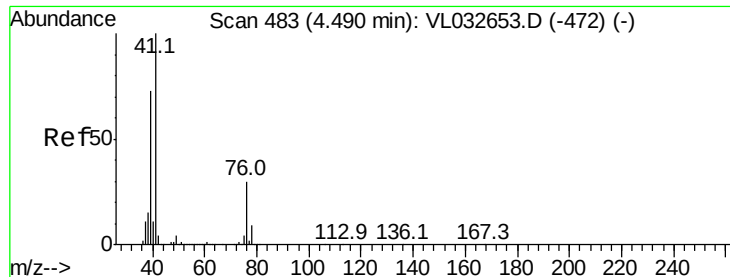
Tgt Ion: 45 Resp: 142383
Ion Ratio Lower Upper
45 100
58 4.0 2.0 3.0#



#20
Methylene Chloride
Concen: 1.287 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion: 84 Resp: 90195
Ion Ratio Lower Upper
84 100
49 143.0 113.5 170.3
51 48.1 34.8 52.2
86 61.6 47.9 71.9

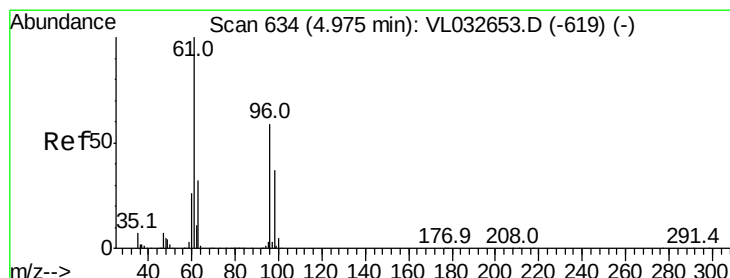
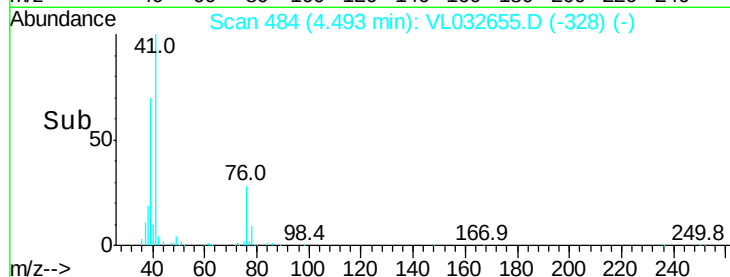
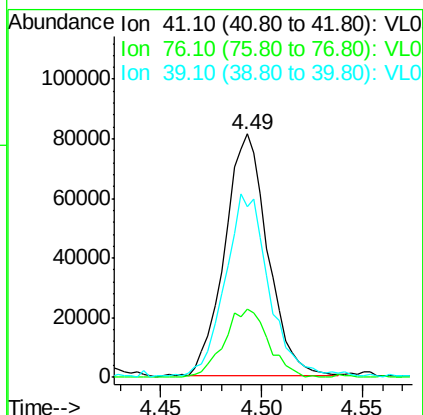
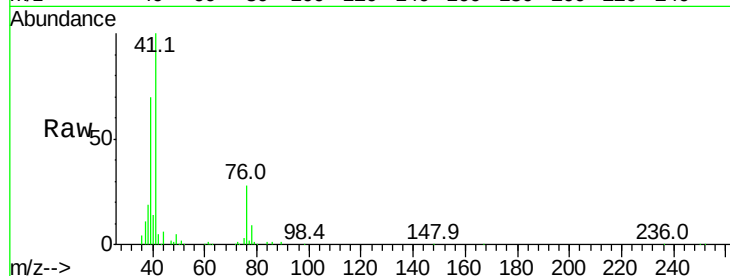




#21
 Allyl Chloride
 Concen: 1.025 ppbv
 RT: 4.49 min Scan# 484
 Delta R.T. 0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

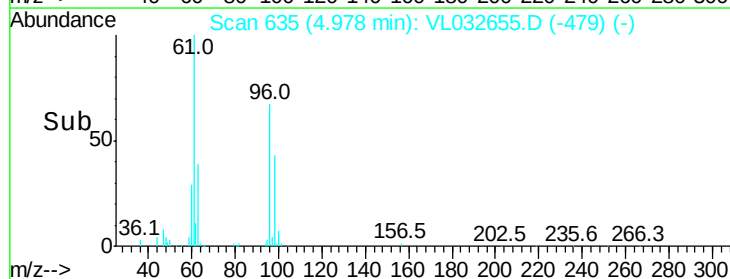
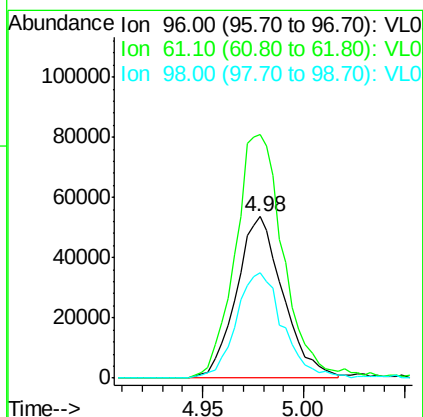
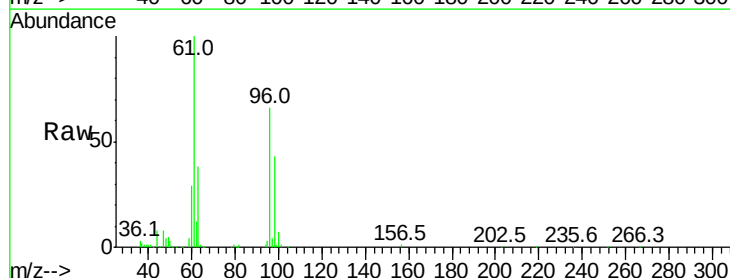
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

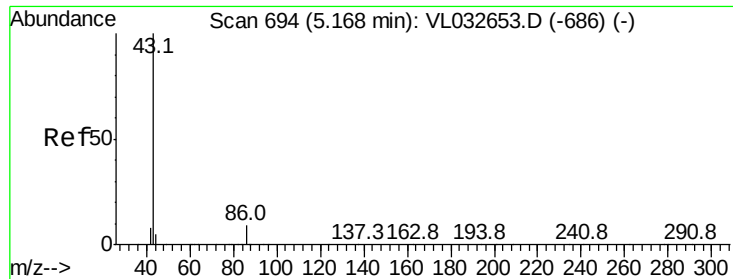
Tgt Ion: 41 Resp: 120313
 Ion Ratio Lower Upper
 41 100
 76 30.0 24.3 36.5
 39 78.3 60.3 90.5



#22
 trans-1,2-Dichloroethene
 Concen: 1.008 ppbv
 RT: 4.98 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

Tgt Ion: 96 Resp: 86837
 Ion Ratio Lower Upper
 96 100
 61 150.7 140.4 210.6
 98 65.3 55.0 82.6





#23

Vinyl Acetate

Concen: 1.196 ppbv

RT: 5.17 min Scan# 695

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 297471

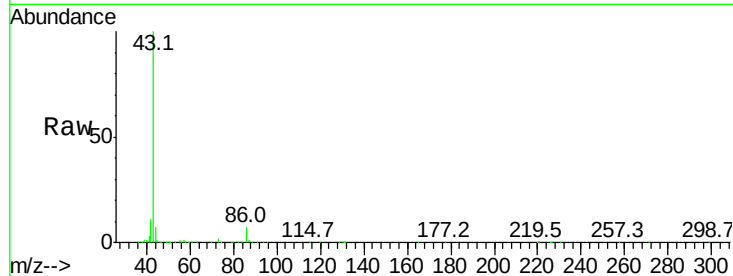
Ion Ratio Lower Upper

43 100

86 7.6 6.1 9.1

42 10.9 7.4 11.2

44 5.7 4.2 6.2

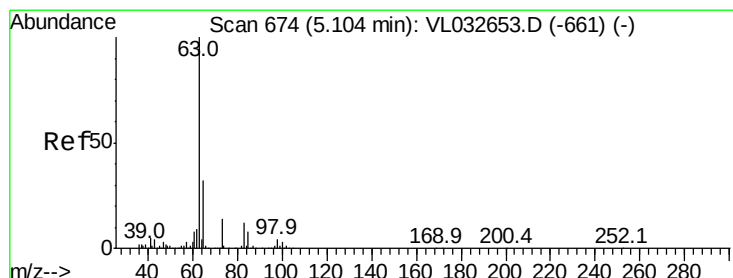
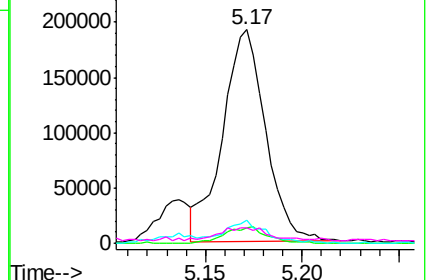
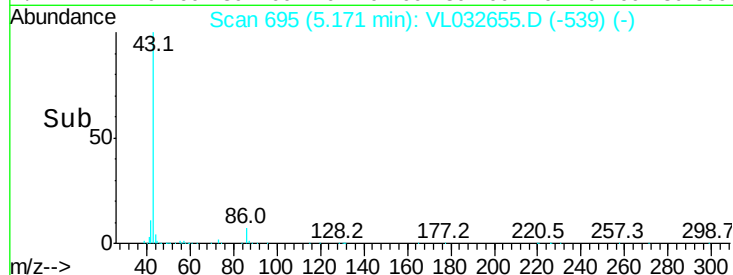


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.039 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

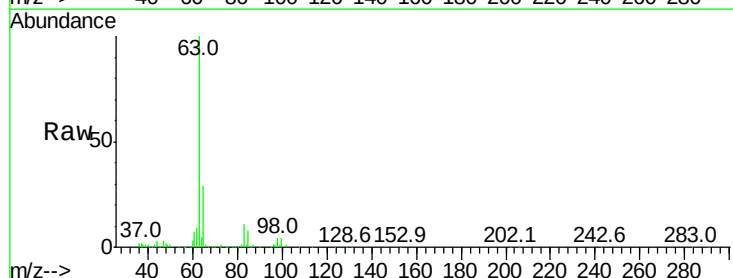
Tgt Ion: 63 Resp: 239645

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.3

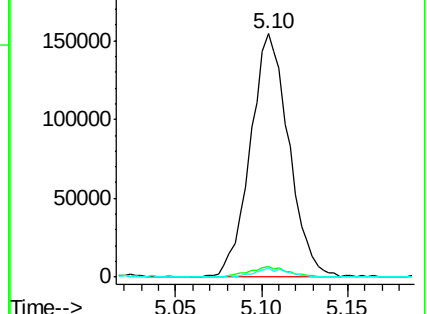
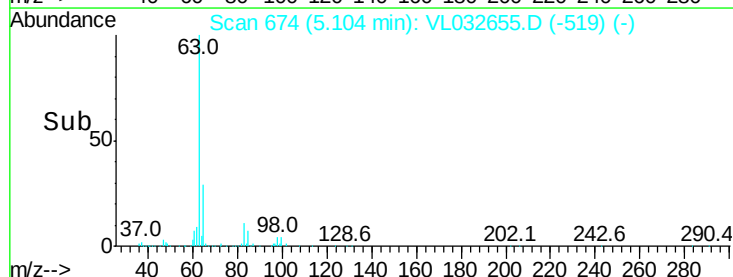
100 3.7 1.2 3.6#

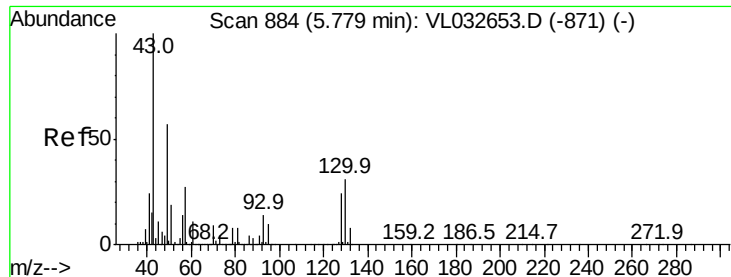


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

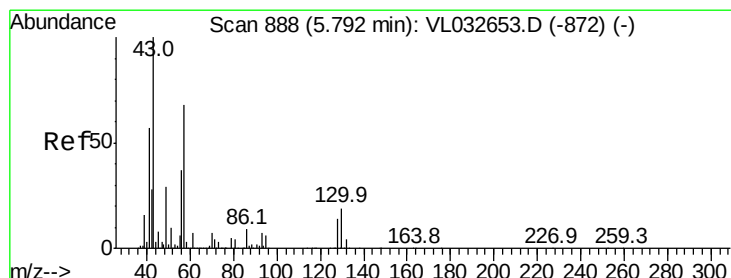
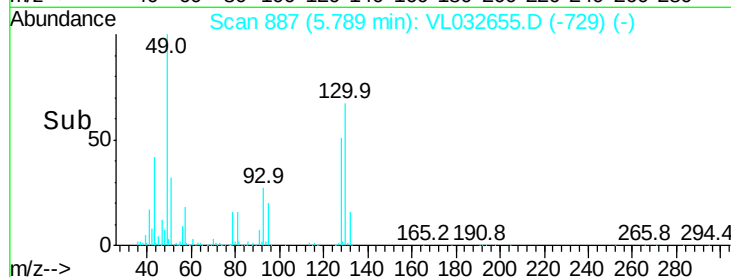
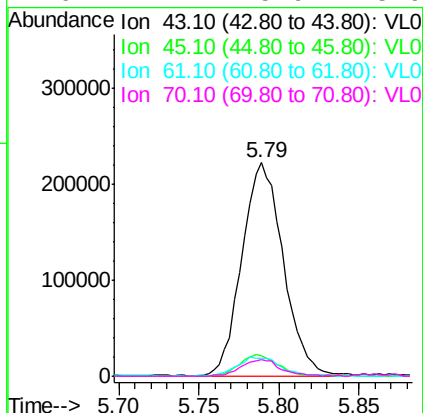
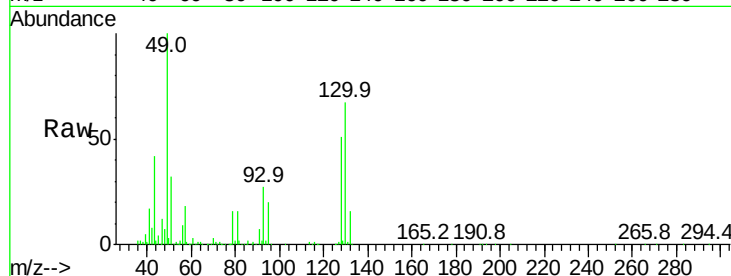




#25
Ethyl Acetate
Concen: 1.059 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

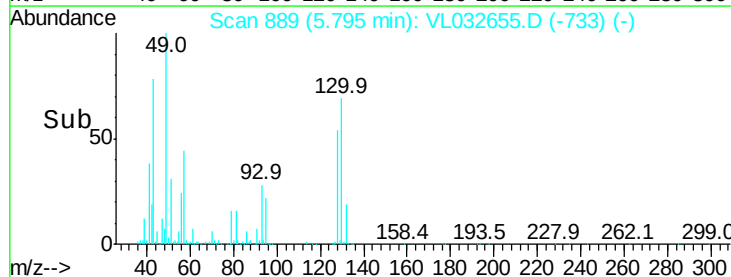
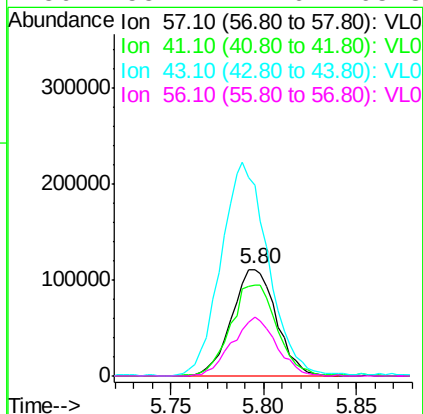
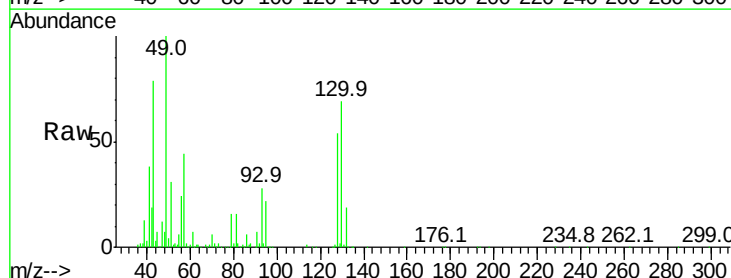
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

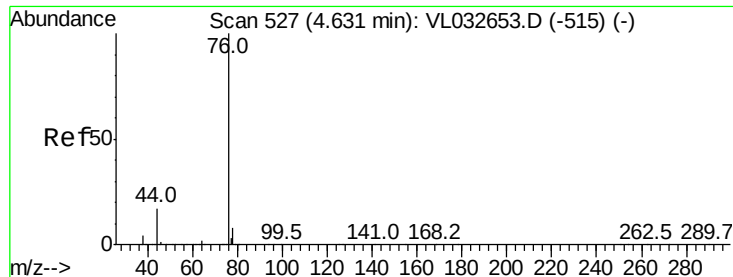
Tgt Ion:	43	Resp:	392080
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.0	12.0
61	9.6	8.0	12.0
70	7.4	5.9	8.9



#26
Hexane
Concen: 1.107 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion:	57	Resp:	184522
Ion	Ratio	Lower	Upper
57	100		
41	90.0	67.4	101.0
43	213.7	171.9	257.9
56	55.1	42.6	63.8





#27

Carbon Disulfide

Concen: 1.035 ppbv

RT: 4.64 min Scan# 529

Delta R.T. 0.01 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

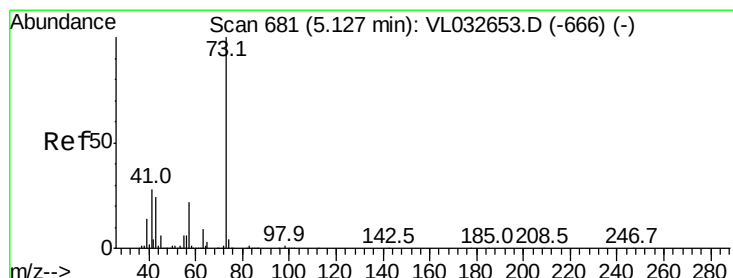
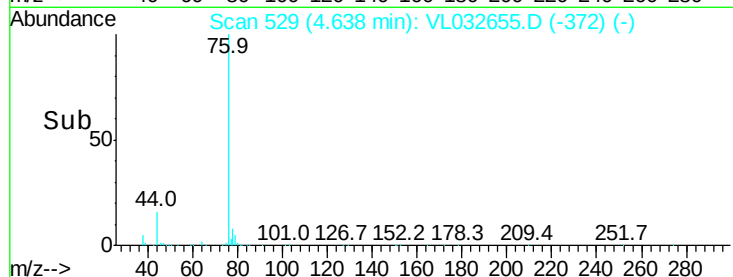
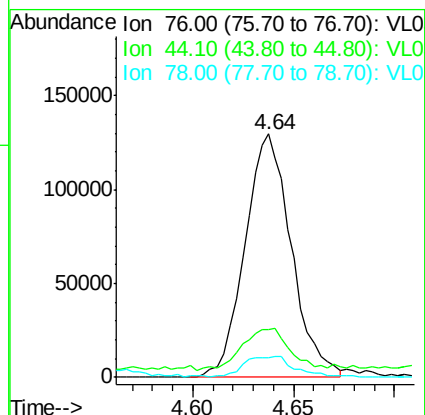
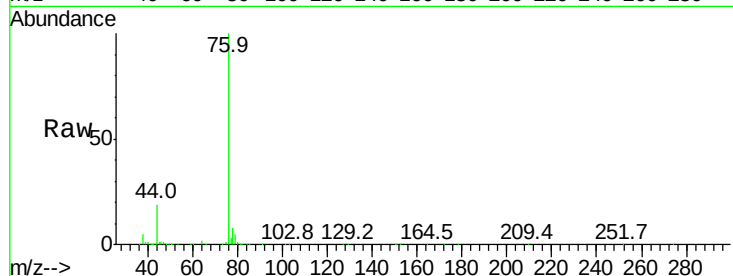
Tgt Ion: 76 Resp: 208444

Ion Ratio Lower Upper

76 100

44 20.8 13.7 20.5#

78 9.8 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 1.243 ppbv

RT: 5.14 min Scan# 684

Delta R.T. 0.01 min

Lab File: VL032655.D

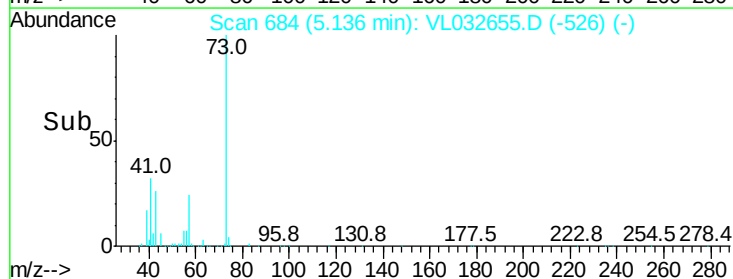
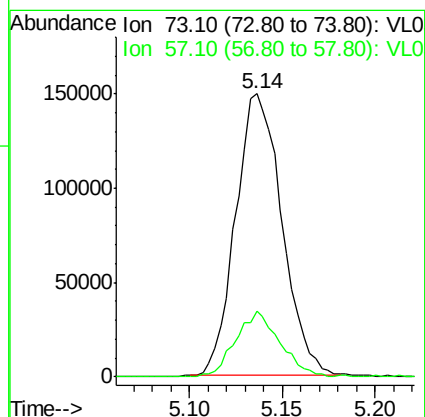
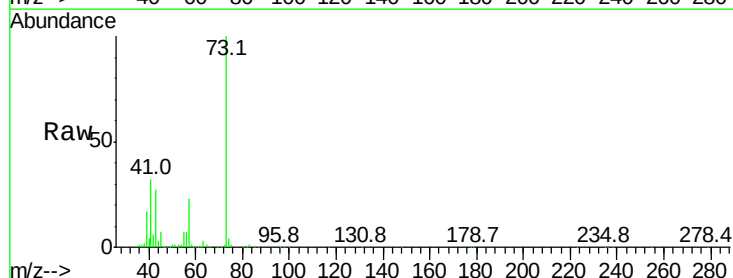
Acq: 18 Oct 2018 17:24

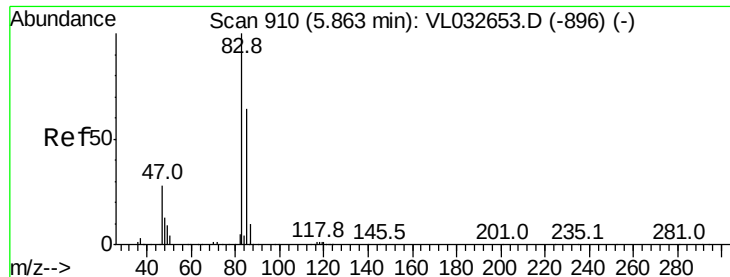
Tgt Ion: 73 Resp: 260370

Ion Ratio Lower Upper

73 100

57 22.6 18.0 27.0





#29

Chloroform

Concen: 1.032 ppbv

RT: 5.86 min Scan# 909

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

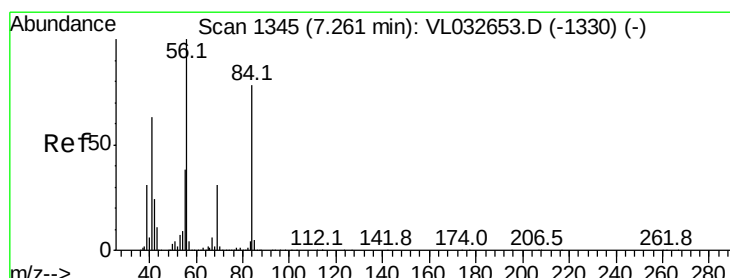
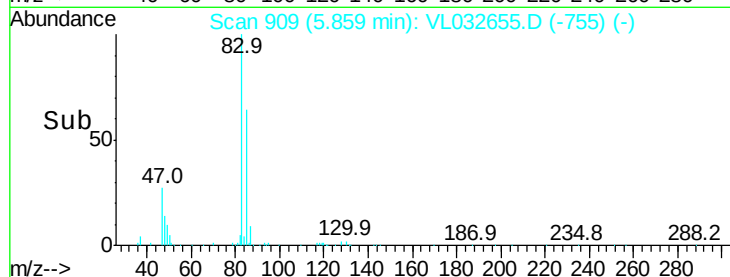
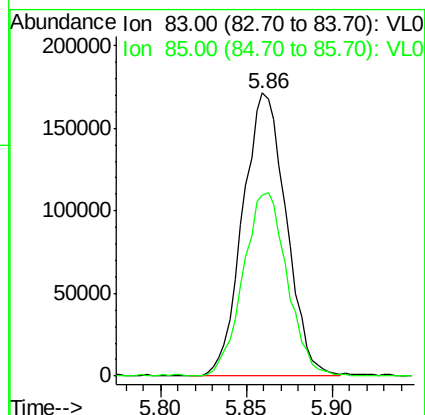
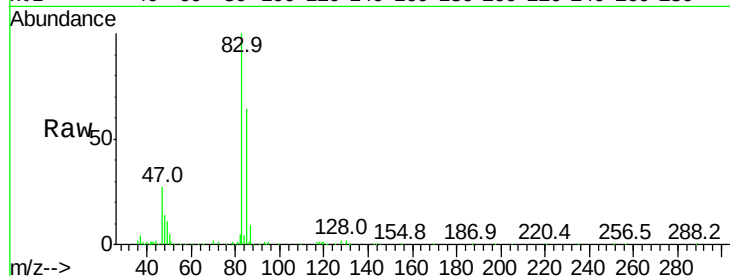
VSTDIC001

Tgt Ion: 83 Resp: 301359

Ion Ratio Lower Upper

83 100

85 63.9 53.0 79.6



#30

Cyclohexane

Concen: 1.004 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

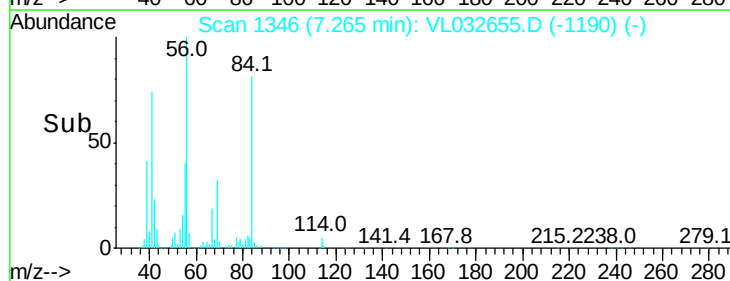
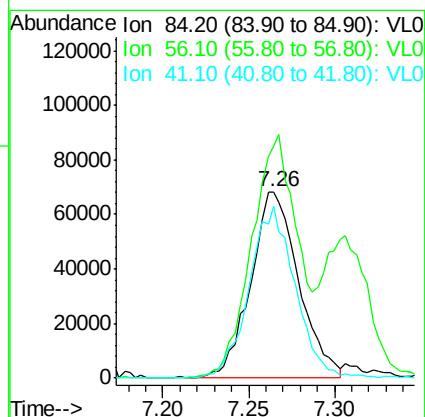
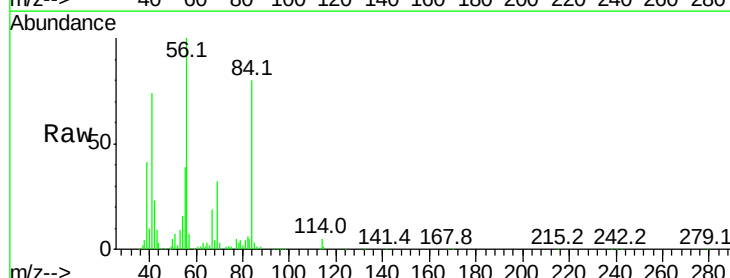
Tgt Ion: 84 Resp: 132001

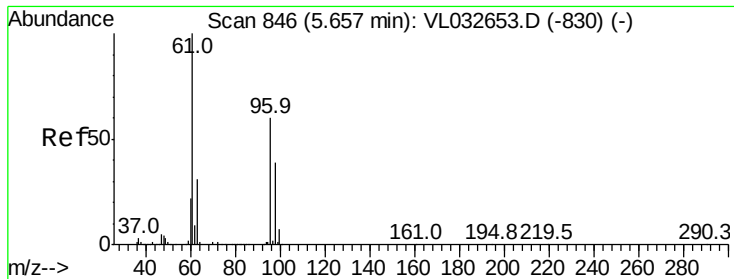
Ion Ratio Lower Upper

84 100

56 124.9 108.3 162.5

41 88.6 64.8 97.2





#31

cis-1,2-Dichloroethene

Concen: 0.997 ppbv

RT: 5.66 min Scan# 846

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

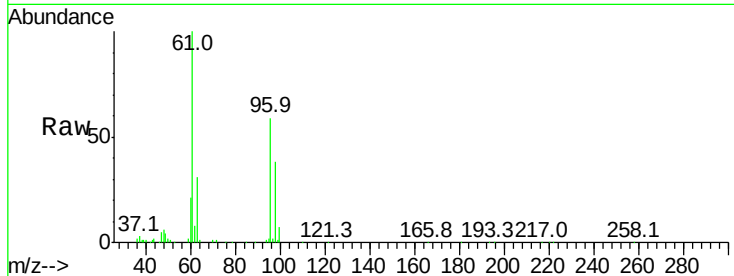
Tgt Ion: 61 Resp: 159605

Ion Ratio Lower Upper

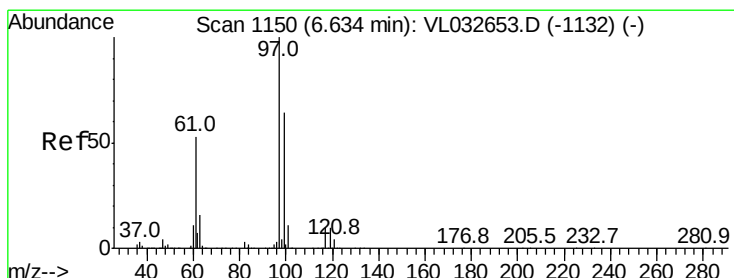
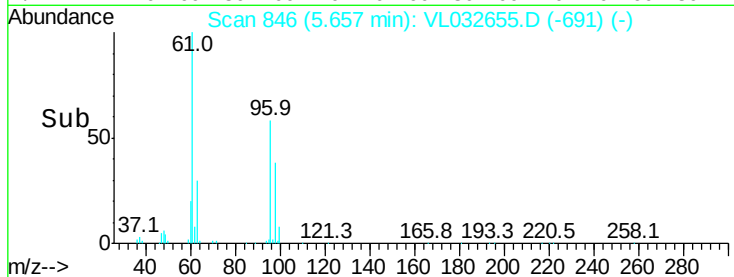
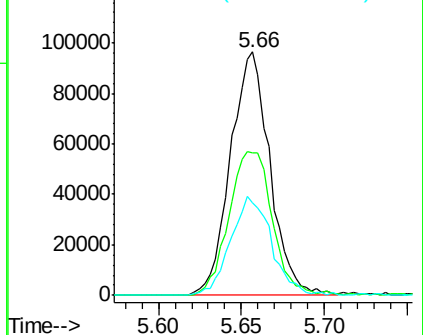
61 100

96 58.4 51.8 77.6

98 38.0 33.8 50.6



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.954 ppbv

RT: 6.63 min Scan# 1150

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

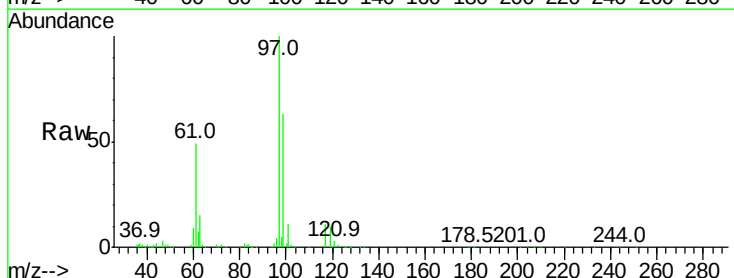
Tgt Ion: 97 Resp: 277945

Ion Ratio Lower Upper

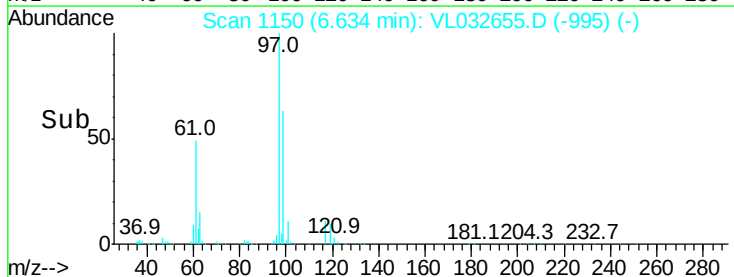
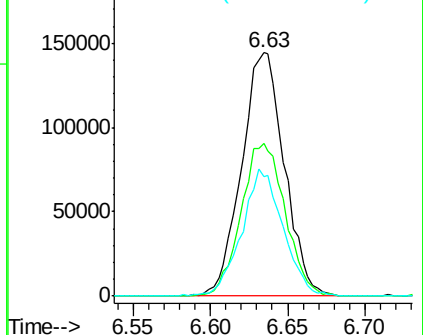
97 100

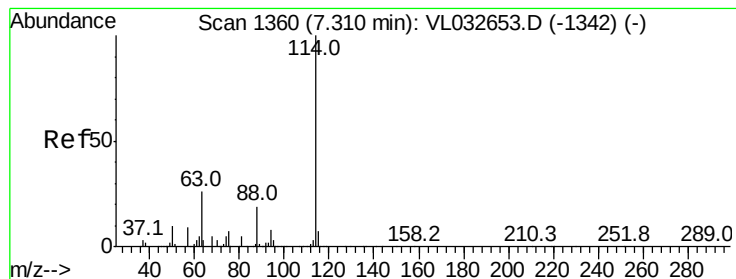
99 64.8 52.0 78.0

61 50.6 40.7 61.1



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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.31 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

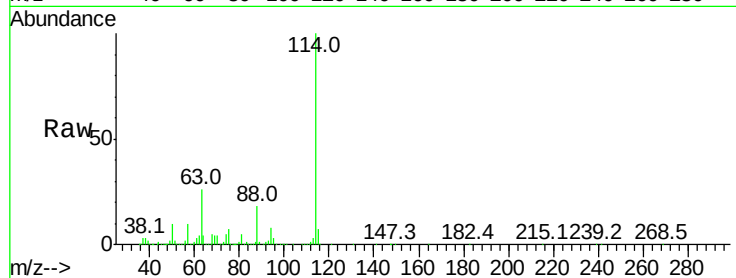
Tgt Ion:114 Resp: 4179442

Ion Ratio Lower Upper

114 100

63 25.3 21.7 32.5

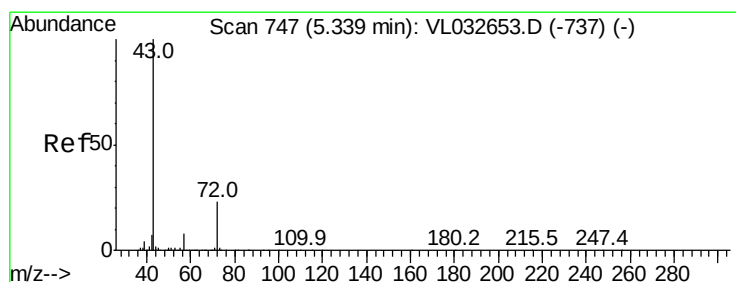
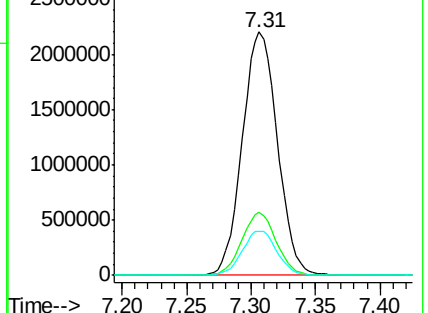
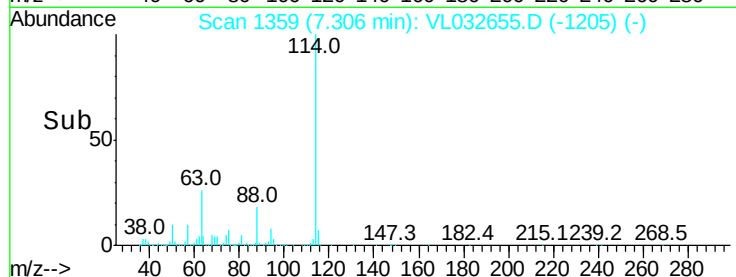
88 18.2 14.9 22.3



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.051 ppbv

RT: 5.35 min Scan# 751

Delta R.T. 0.01 min

Lab File: VL032655.D

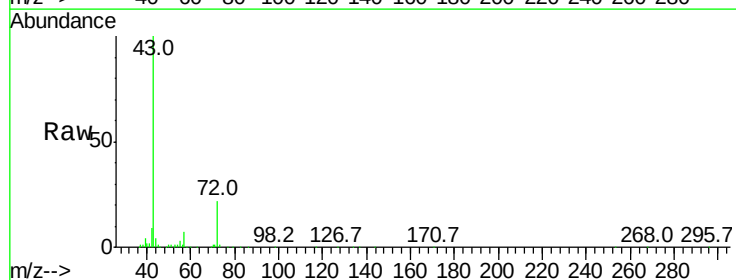
Acq: 18 Oct 2018 17:24

Tgt Ion: 43 Resp: 243767

Ion Ratio Lower Upper

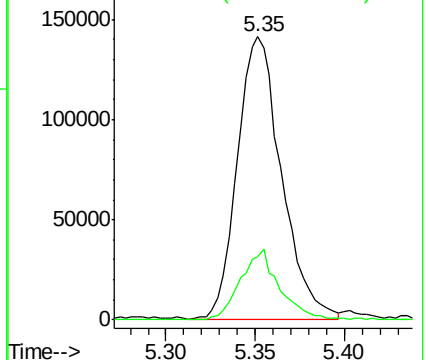
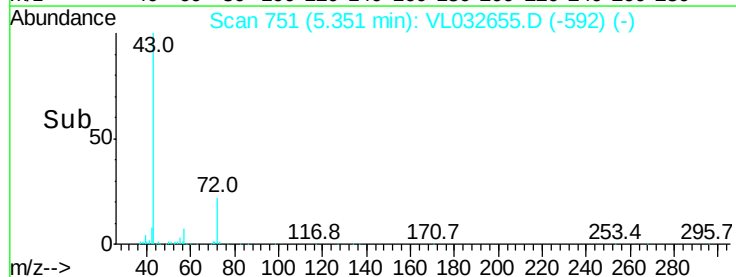
43 100

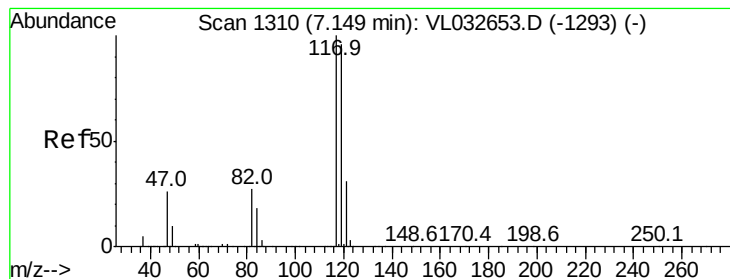
72 22.5 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.914 ppbv

RT: 7.15 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

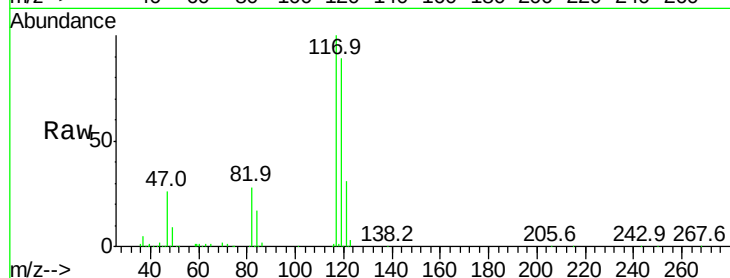
Tgt Ion:117 Resp: 296039

Ion Ratio Lower Upper

117 100

119 89.4 75.7 113.5

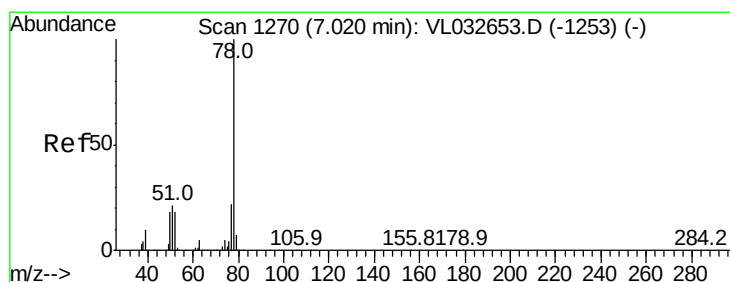
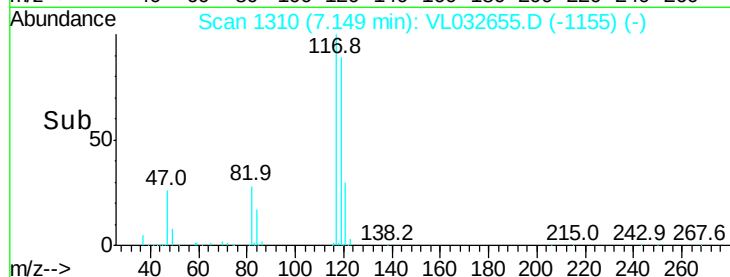
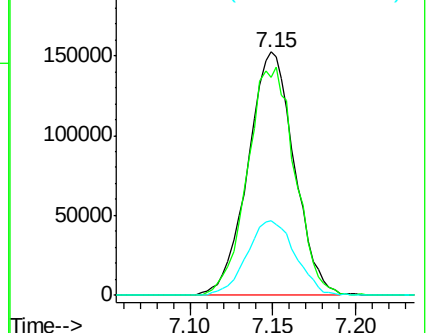
121 30.7 24.7 37.1



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: 1.015 ppbv

RT: 7.02 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

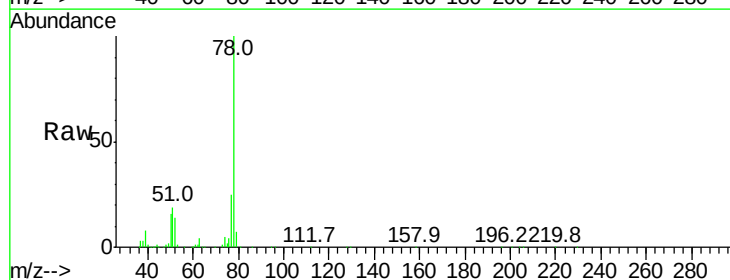
Tgt Ion: 78 Resp: 343818

Ion Ratio Lower Upper

78 100

77 25.1 18.1 27.1

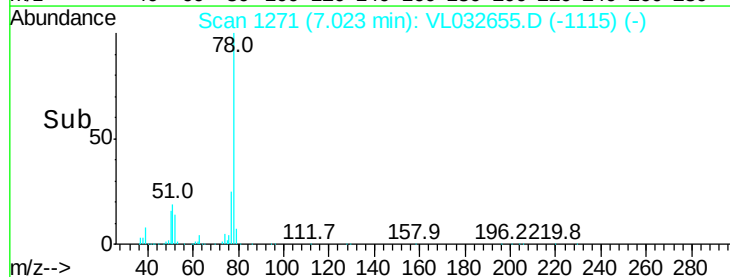
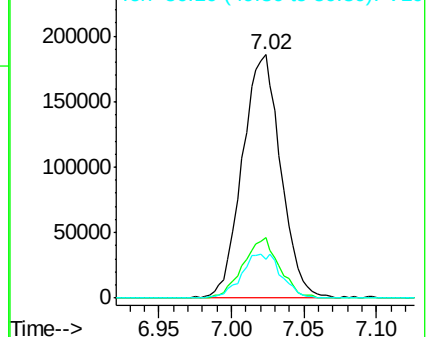
50 15.9 15.1 22.7

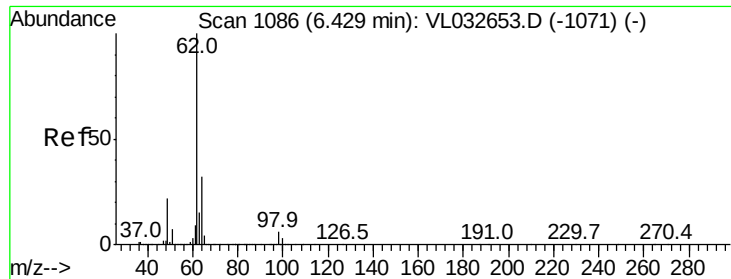


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

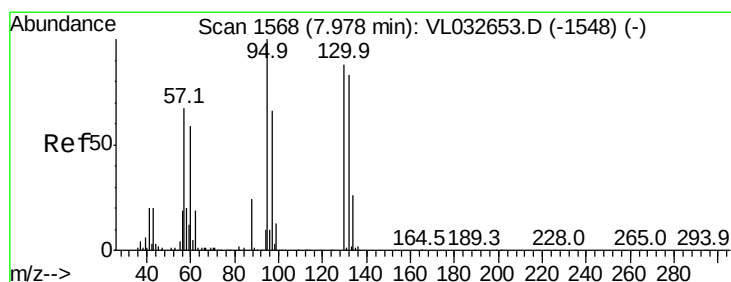
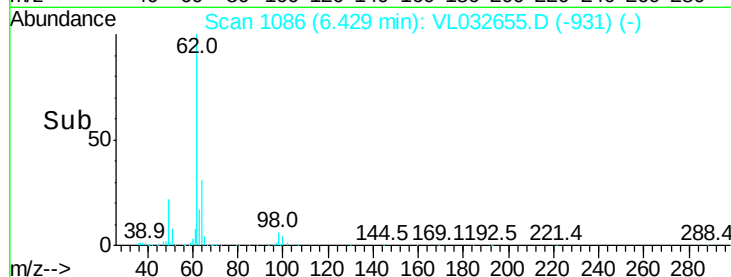
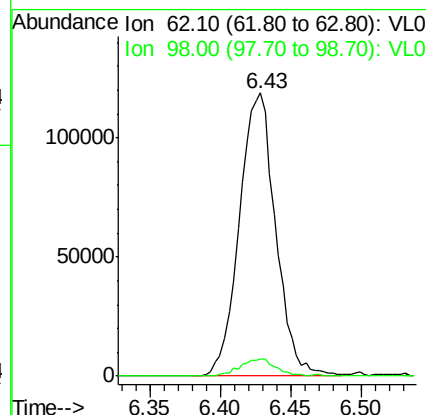
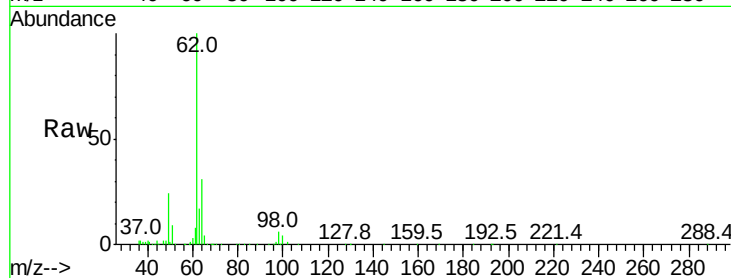




#37
 1,2-Dichloroethane
 Concen: 0.923 ppbv
 RT: 6.43 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

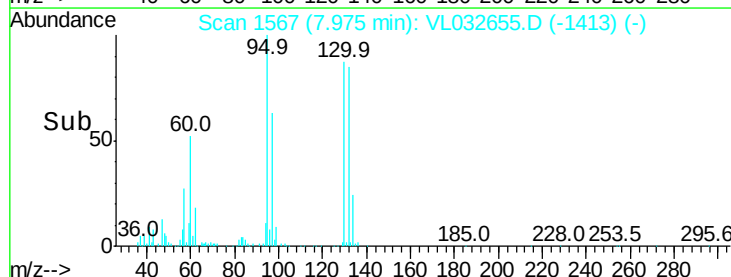
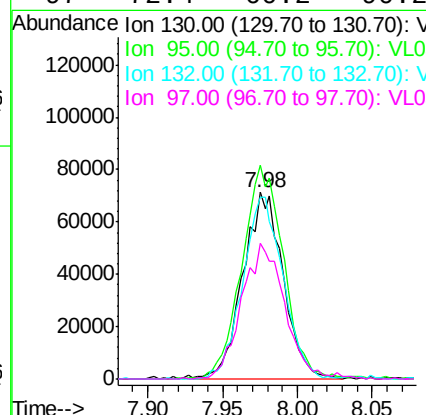
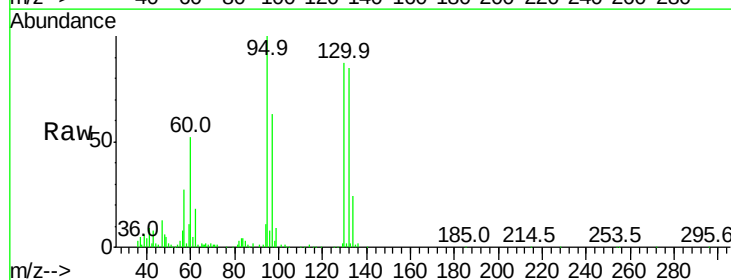
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

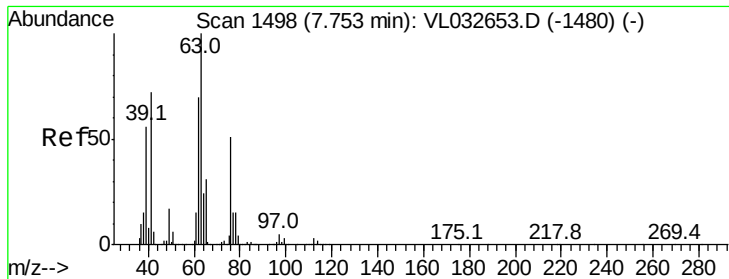
Tgt Ion: 62 Resp: 214488
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.4 6.6



#38
 Trichloroethene
 Concen: 1.047 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

Tgt Ion: 130 Resp: 133400
 Ion Ratio Lower Upper
 130 100
 95 114.1 93.4 140.0
 132 97.3 76.5 114.7
 97 72.4 60.2 90.2





#39

1,2-Dichloropropane

Concen: 0.974 ppbv

RT: 7.75 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

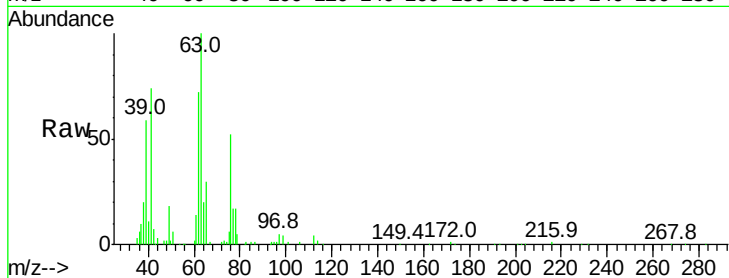
Tgt Ion: 63 Resp: 134203

Ion Ratio Lower Upper

63 100

41 73.4 56.2 84.4

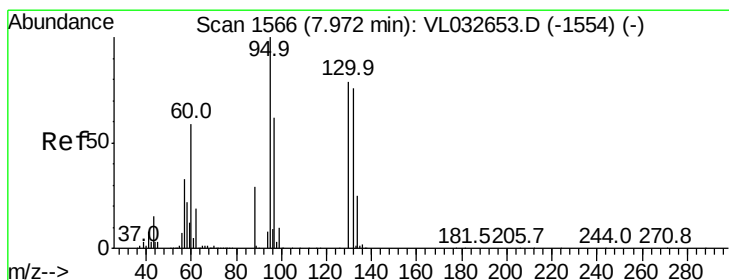
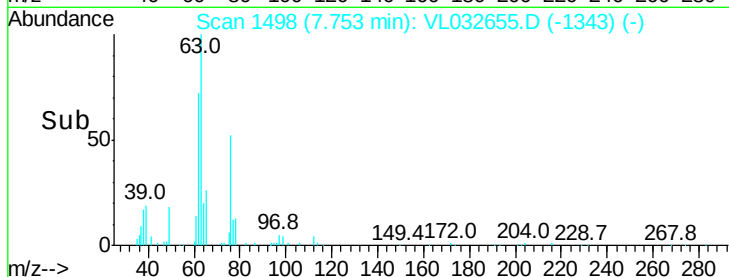
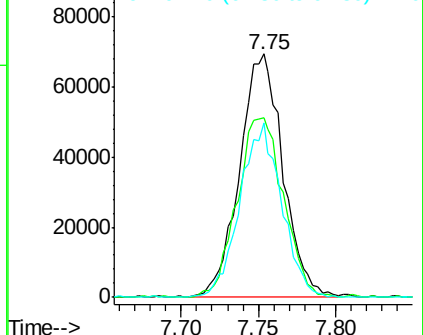
62 72.0 54.4 81.6



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.768 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. 0.03 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Tgt Ion: 88 Resp: 36584

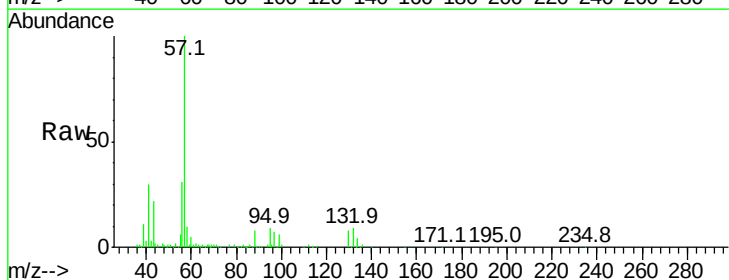
Ion Ratio Lower Upper

88 100

58 174.0 104.0 156.0#

43 378.1 0.0 0.0#

57 1710.3 0.0 0.0#

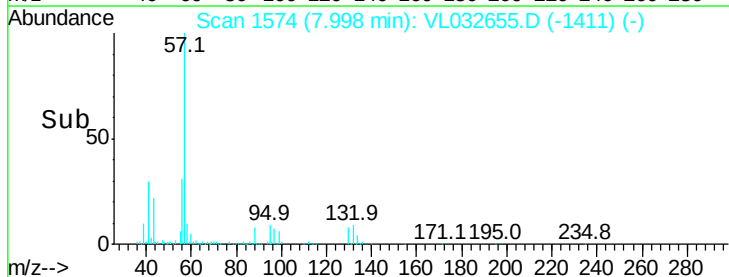
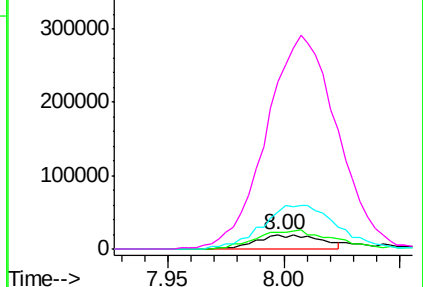


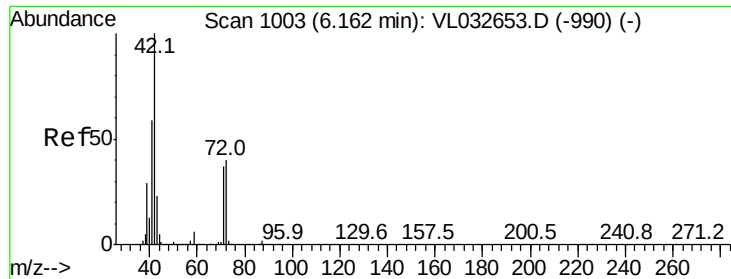
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

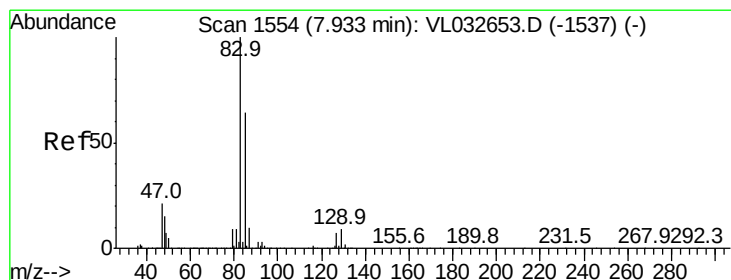
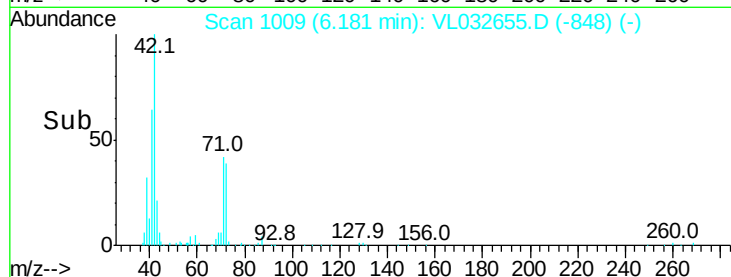
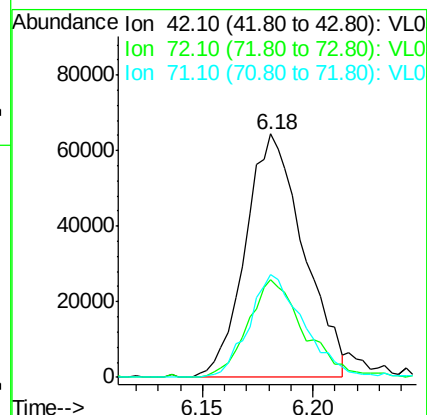
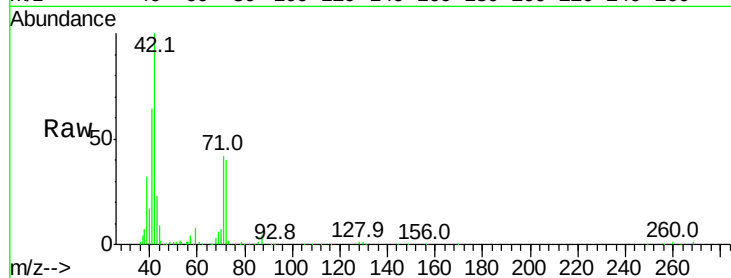




#41
Tetrahydrofuran
Concen: 0.956 ppbv
RT: 6.18 min Scan# 1009
Delta R.T. 0.02 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

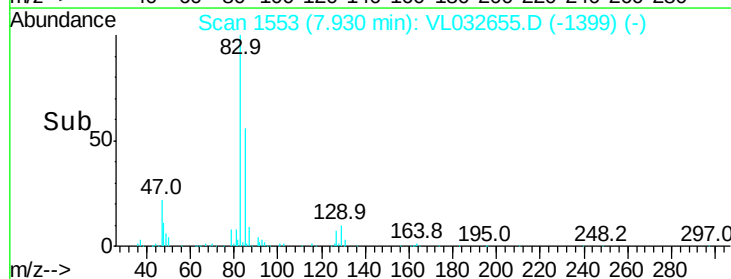
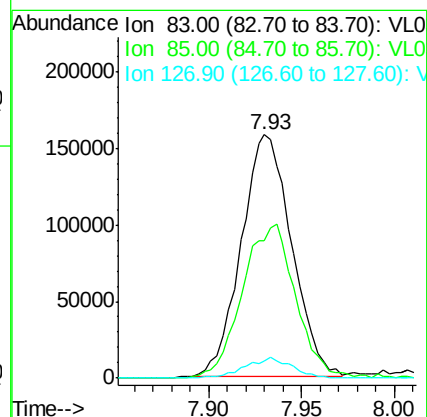
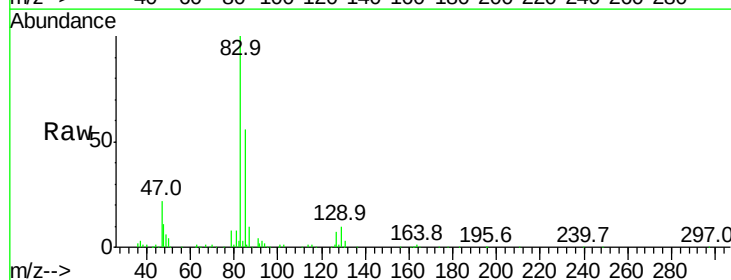
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

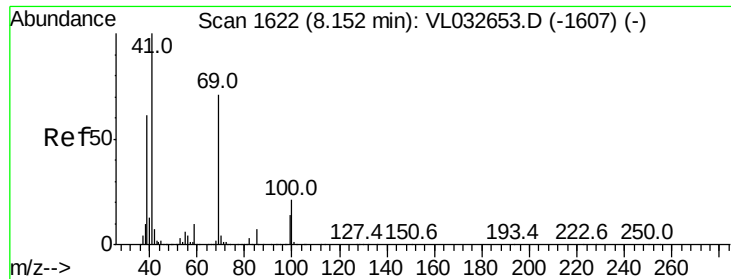
Tgt Ion: 42 Resp: 117644
Ion Ratio Lower Upper
42 100
72 39.7 32.4 48.6
71 40.3 31.3 46.9



#42
Bromodichloromethane
Concen: 0.946 ppbv
RT: 7.93 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion: 83 Resp: 299490
Ion Ratio Lower Upper
83 100
85 56.0 52.4 78.6
127 7.0 6.1 9.1

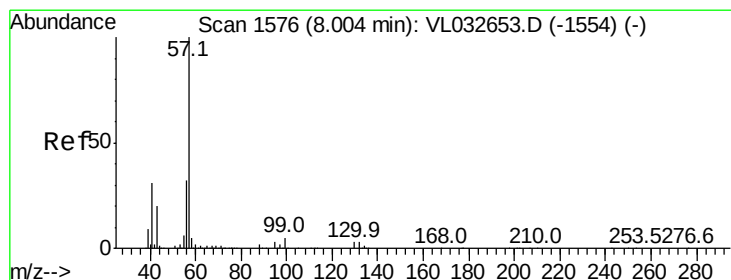
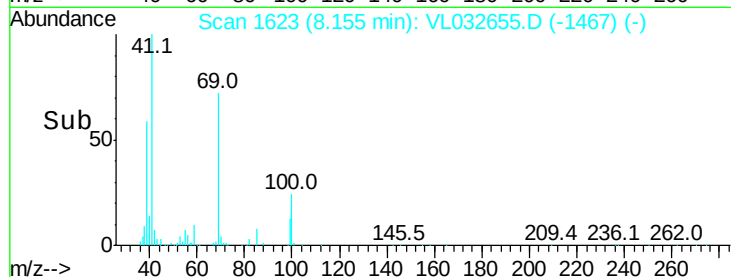
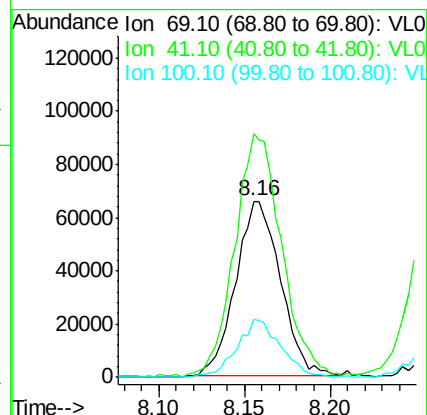
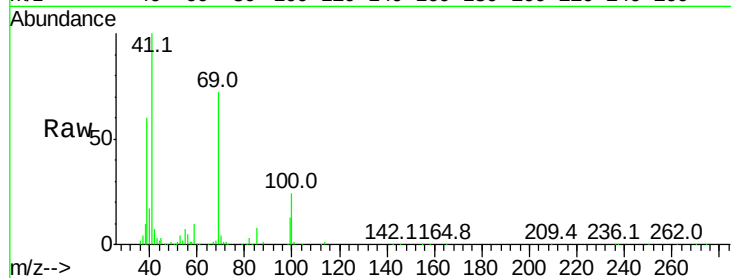




#43
Methyl Methacrylate
Concen: 0.900 ppbv
RT: 8.16 min Scan# 1623
Delta R.T. 0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

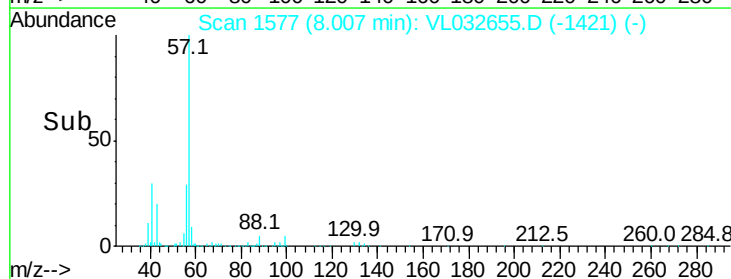
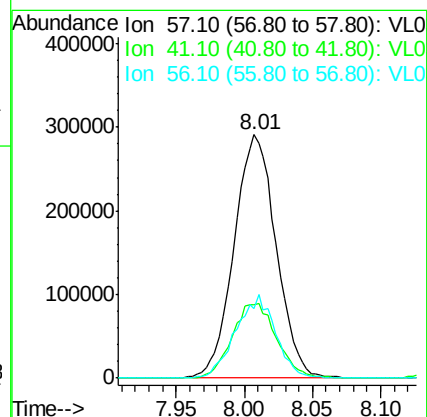
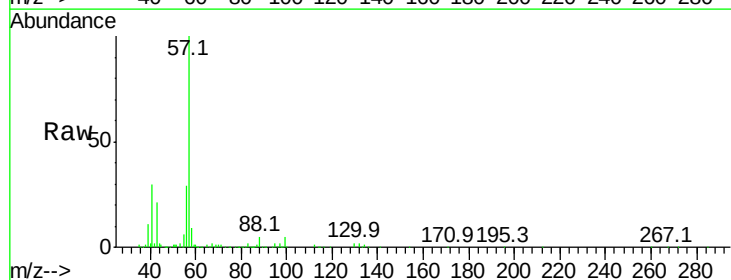
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

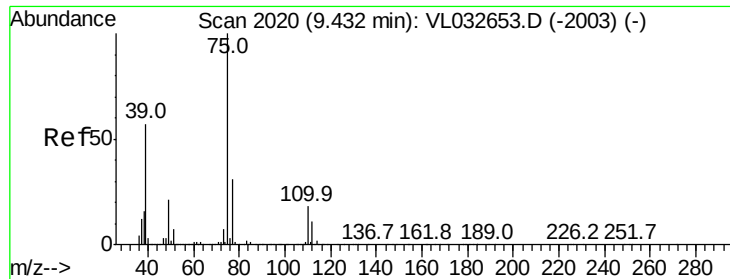
Tgt Ion: 69 Resp: 118225
Ion Ratio Lower Upper
69 100
41 146.3 113.2 169.8
100 32.8 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 1.029 ppbv
RT: 8.01 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion: 57 Resp: 617777
Ion Ratio Lower Upper
57 100
41 33.1 24.7 37.1
56 32.7 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 0.833 ppbv

RT: 9.43 min Scan# 2021

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

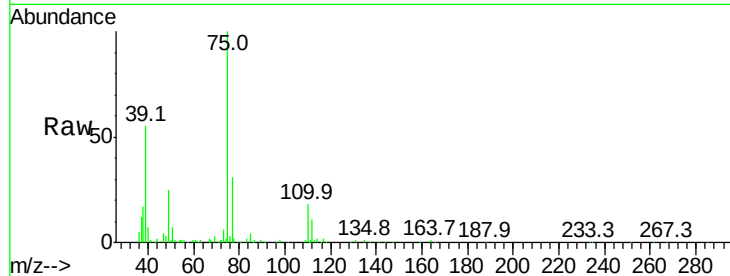
VSTDIC001

Tgt Ion: 75 Resp: 143095

Ion Ratio Lower Upper

75 100

77 33.2 25.3 37.9



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.43

80000

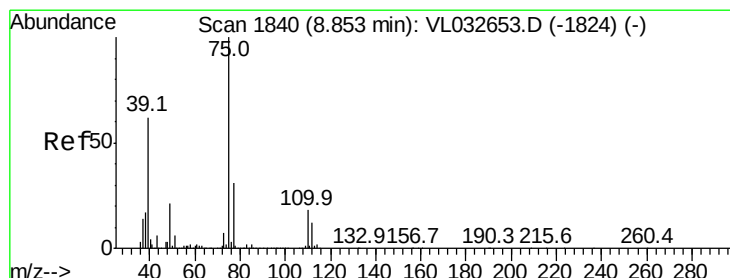
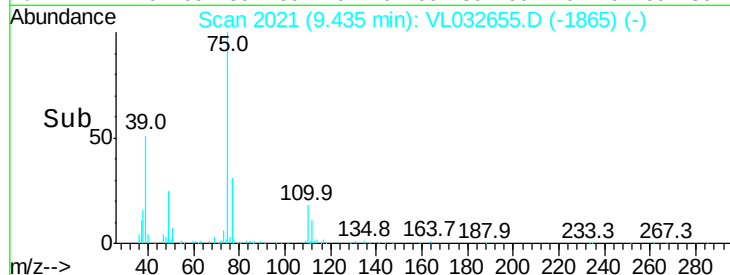
60000

40000

20000

0

Time--> 9.35 9.40 9.45



#46

cis-1,3-Dichloropropene

Concen: 0.920 ppbv

RT: 8.85 min Scan# 1840

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

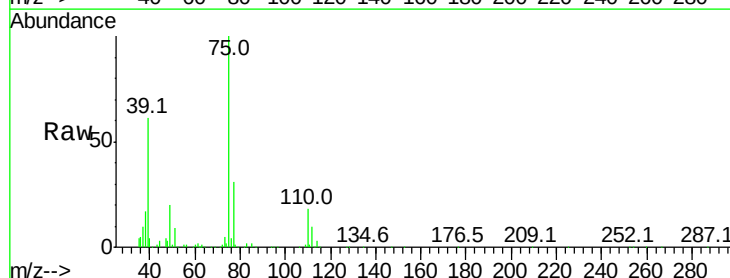
Tgt Ion: 75 Resp: 179984

Ion Ratio Lower Upper

75 100

39 60.1 50.9 76.3

77 30.9 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

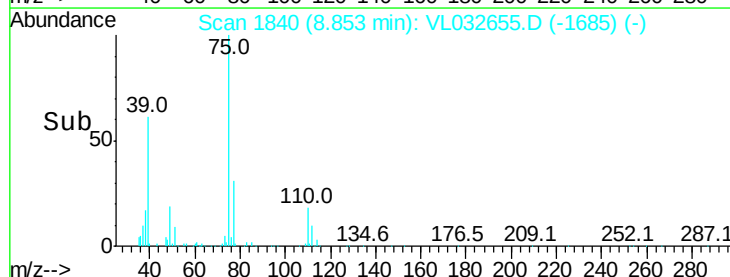
8.85

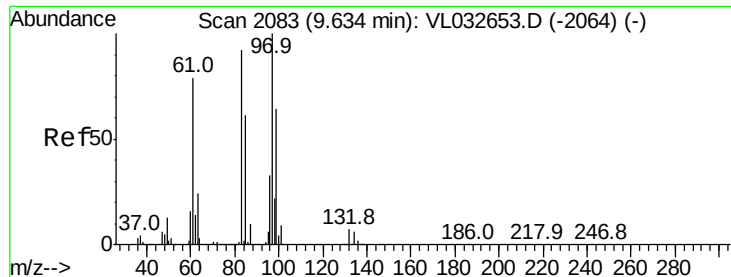
100000

50000

0

Time--> 8.80 8.85 8.90





#47

1,1,2-Trichloroethane

Concen: 0.930 ppbv

RT: 9.63 min Scan# 2082

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 153086

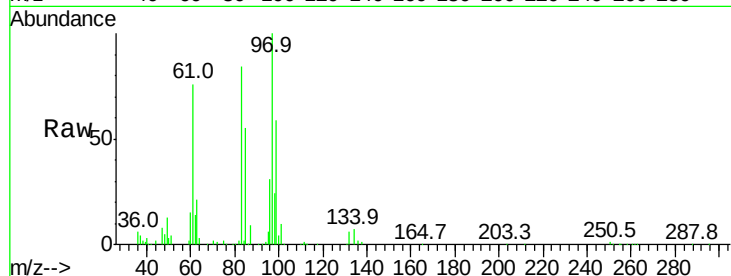
Ion Ratio Lower Upper

97 100

83 83.6 73.5 110.3

85 54.1 45.8 68.6

99 58.2 50.6 75.8

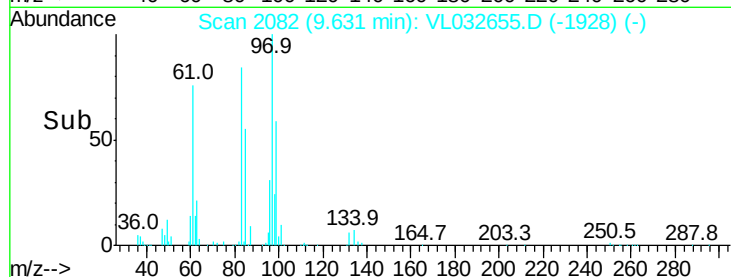
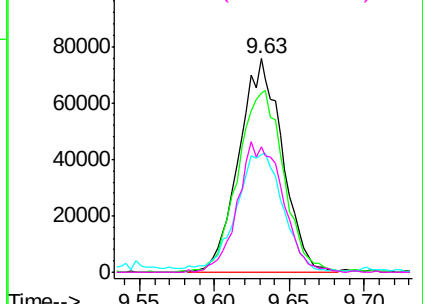


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.892 ppbv

RT: 10.47 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VL032655.D

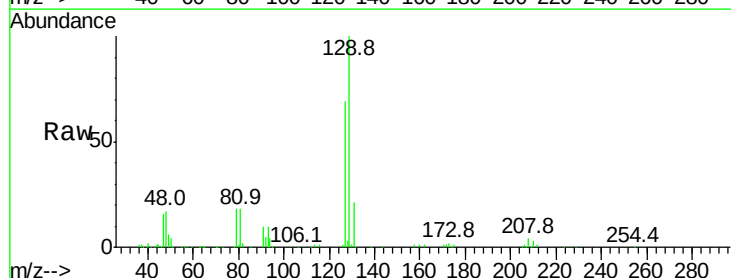
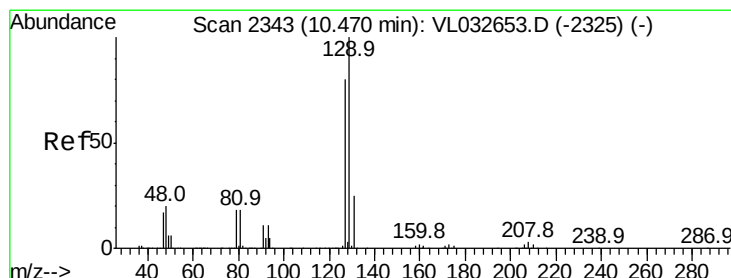
Acq: 18 Oct 2018 17:24

Tgt Ion: 129 Resp: 249419

Ion Ratio Lower Upper

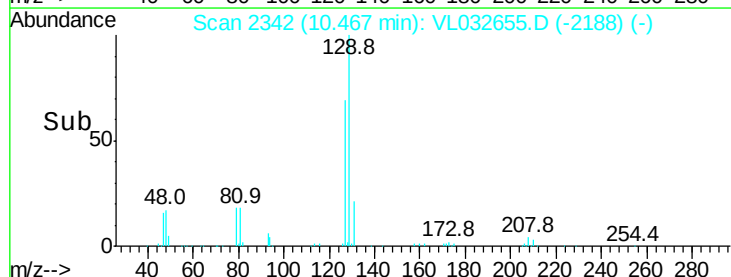
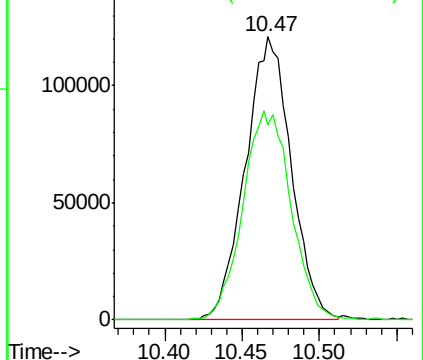
129 100

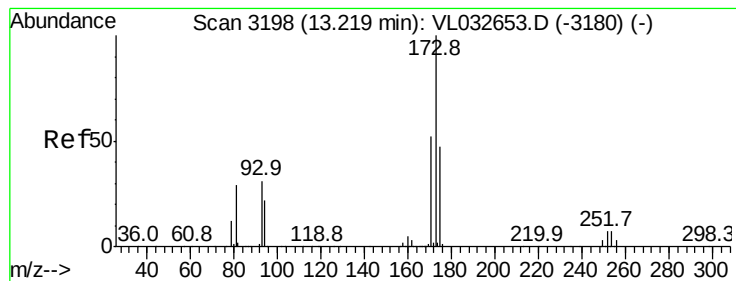
127 77.9 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.955 ppbv

RT: 13.22 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

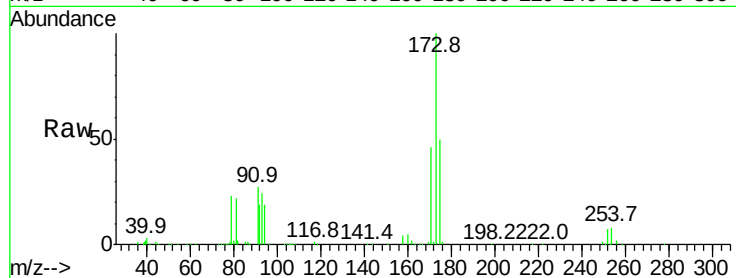
Tgt Ion: 173 Resp: 201896

Ion Ratio Lower Upper

173 100

175 49.3 39.0 58.4

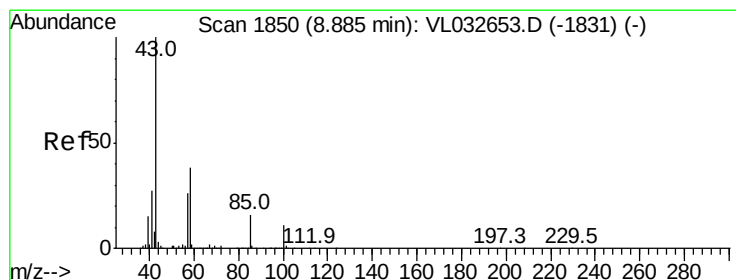
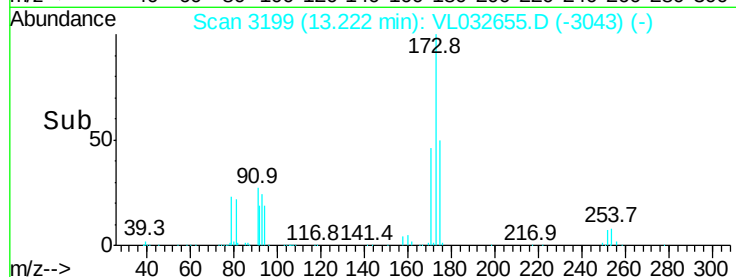
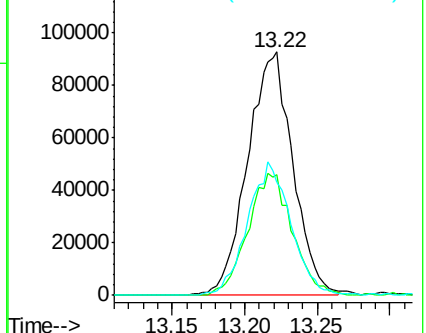
171 52.7 42.2 63.2



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: 0.998 ppbv

RT: 8.90 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VL032655.D

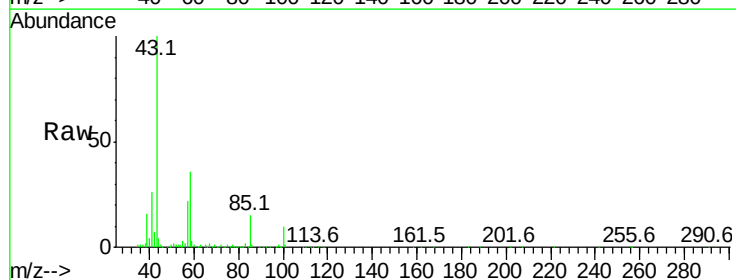
Acq: 18 Oct 2018 17:24

Tgt Ion: 43 Resp: 340688

Ion Ratio Lower Upper

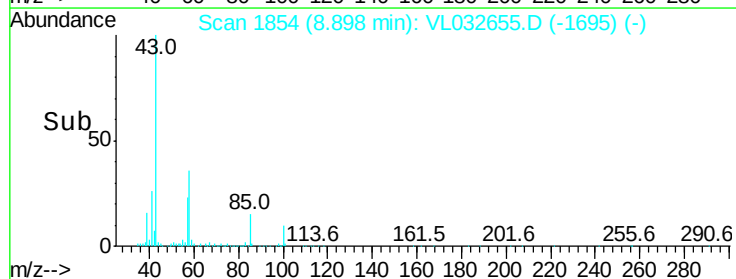
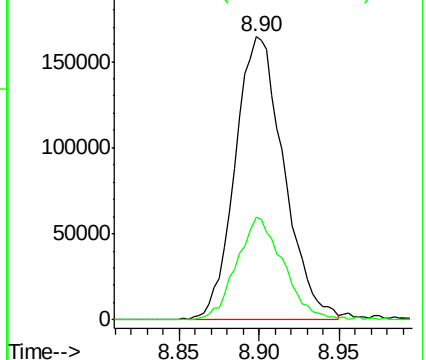
43 100

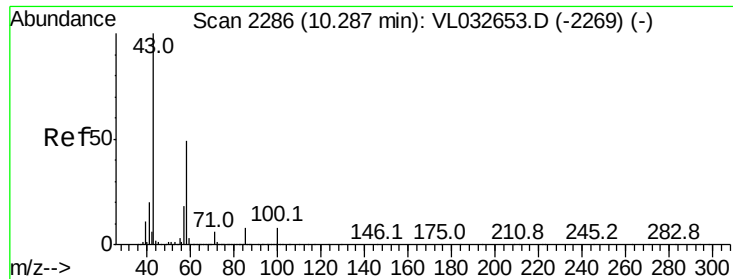
58 35.4 29.7 44.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

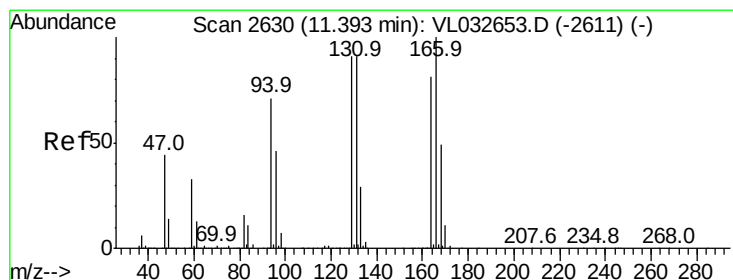
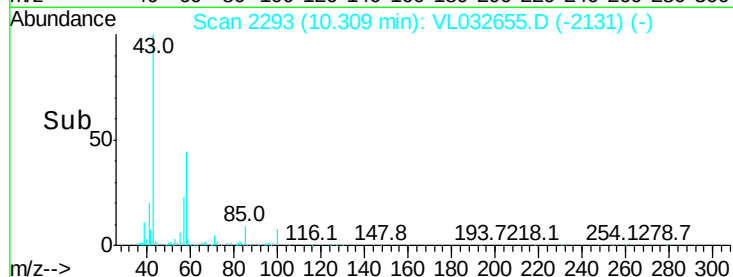
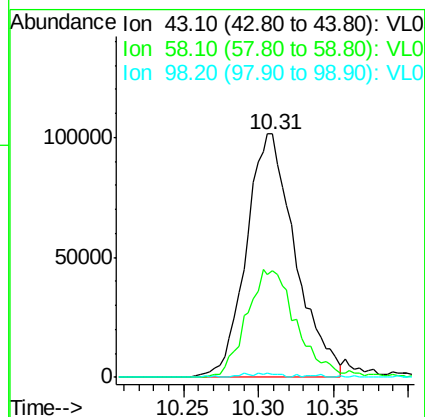
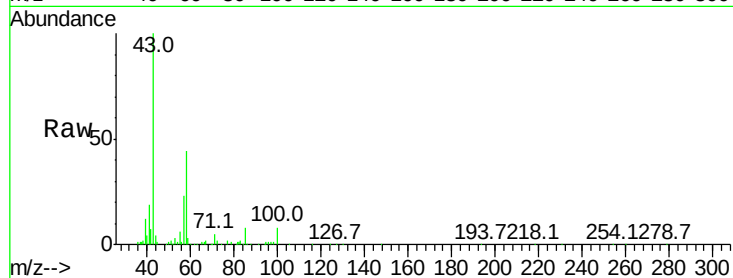




#51
2-Hexanone
Concen: 0.857 ppbv
RT: 10.31 min Scan# 2293
Delta R.T. 0.02 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

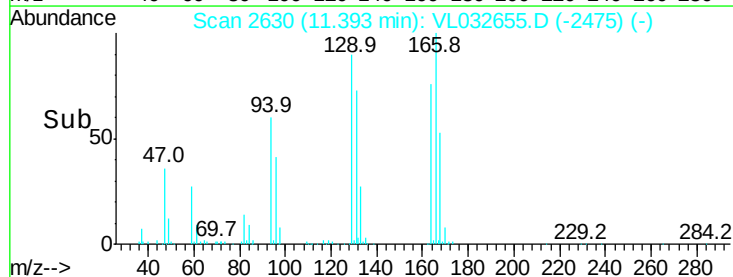
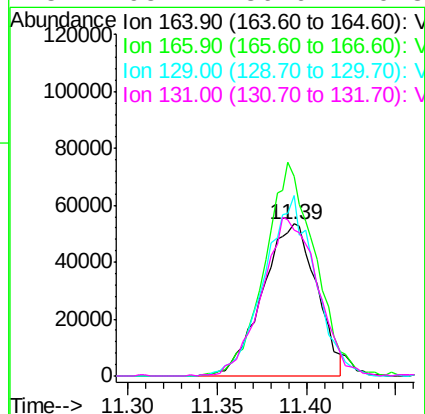
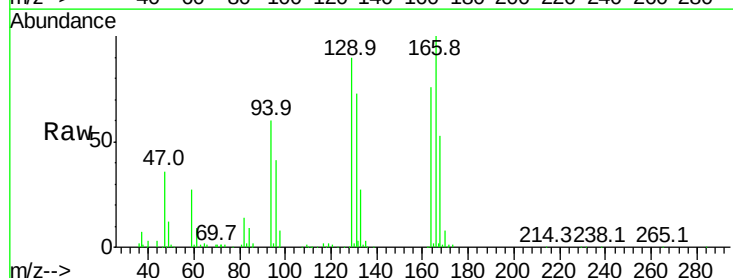
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

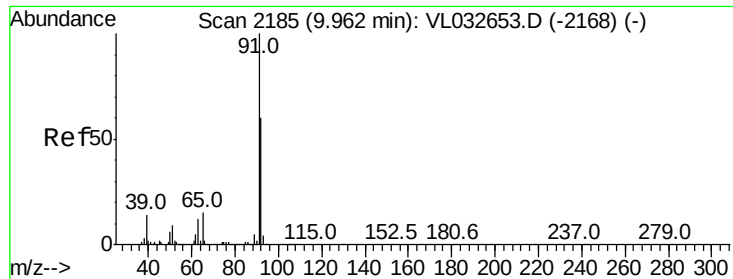
Tgt Ion: 43 Resp: 229995
Ion Ratio Lower Upper
43 100
58 46.3 40.4 60.6
98 1.3 0.4 0.6#



#52
Tetrachloroethene
Concen: 1.016 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion: 164 Resp: 113306
Ion Ratio Lower Upper
164 100
166 131.5 100.5 150.7
129 118.4 90.0 135.0
131 95.7 86.6 129.8





#53

Toluene

Concen: 0.973 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

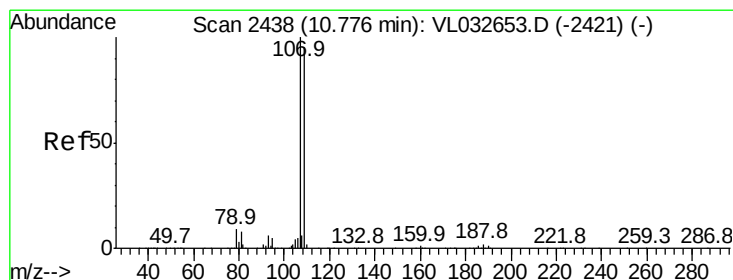
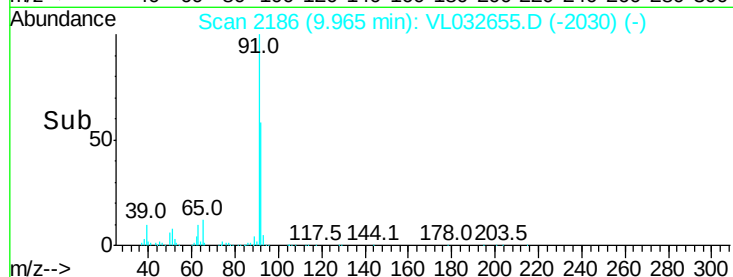
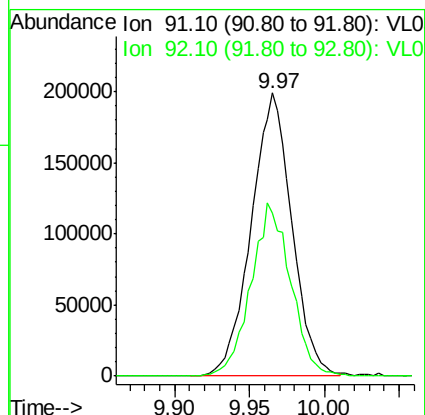
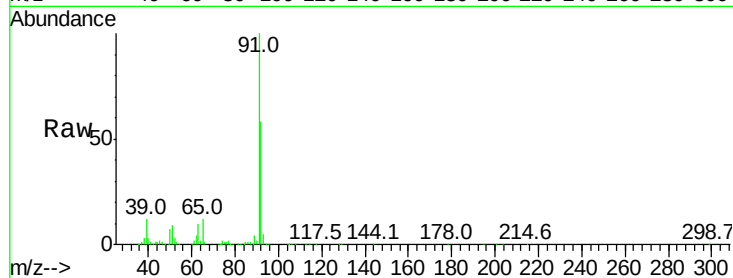
VSTDIC001

Tgt Ion: 91 Resp: 375833

Ion Ratio Lower Upper

91 100

92 59.7 48.4 72.6



#54

1,2-Dibromoethane

Concen: 0.867 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. -0.00 min

Lab File: VL032655.D

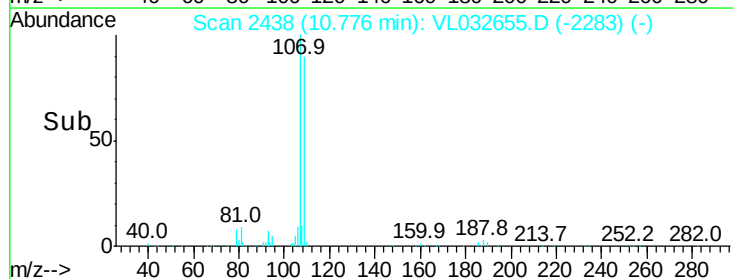
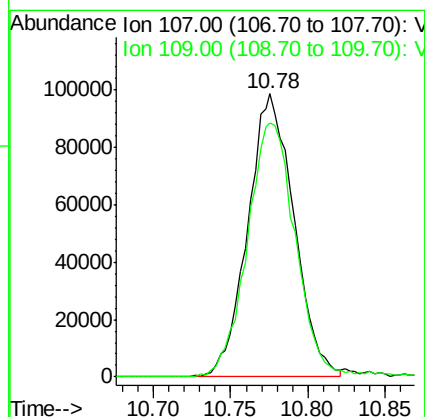
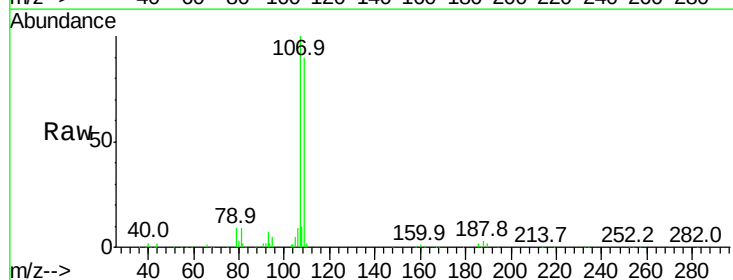
Acq: 18 Oct 2018 17:24

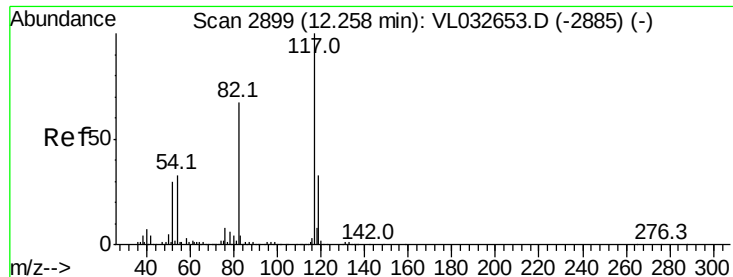
Tgt Ion: 107 Resp: 204552

Ion Ratio Lower Upper

107 100

109 89.8 75.3 112.9

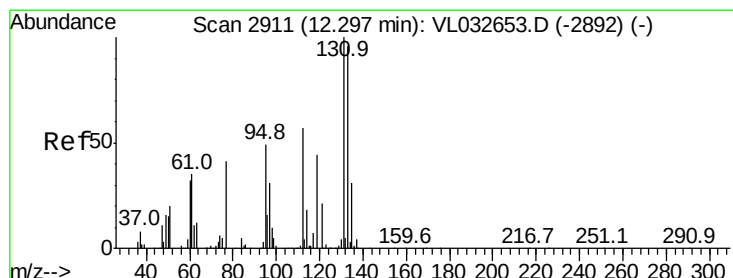
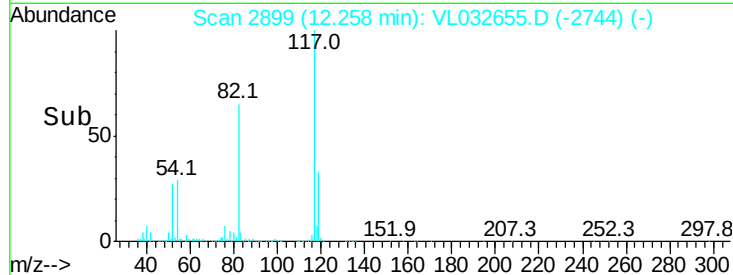
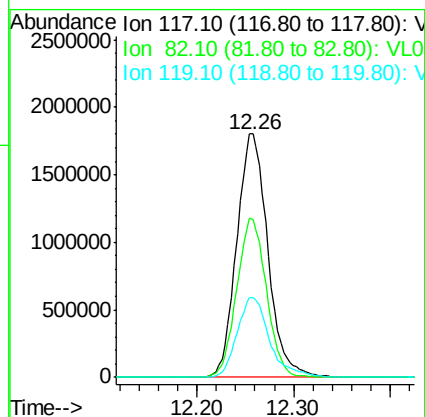
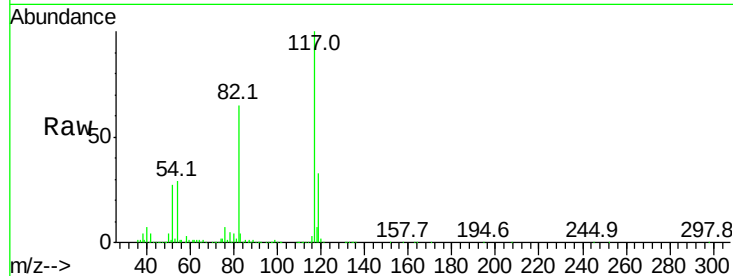




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

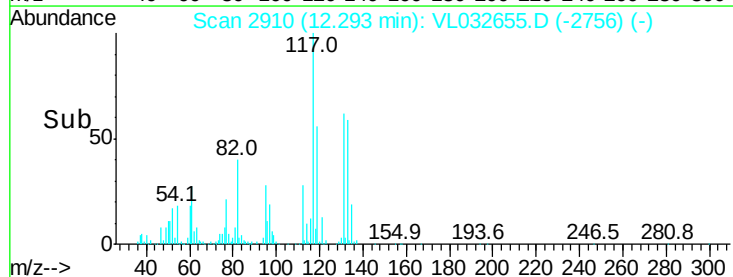
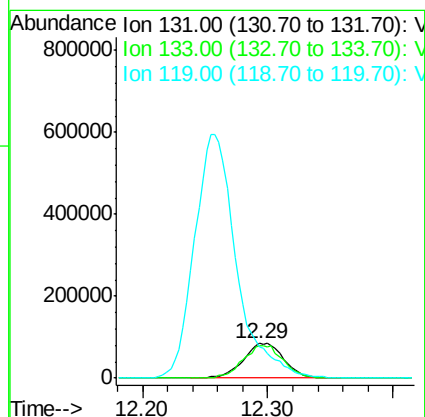
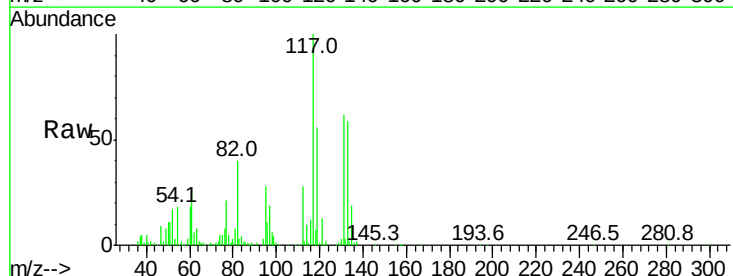
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

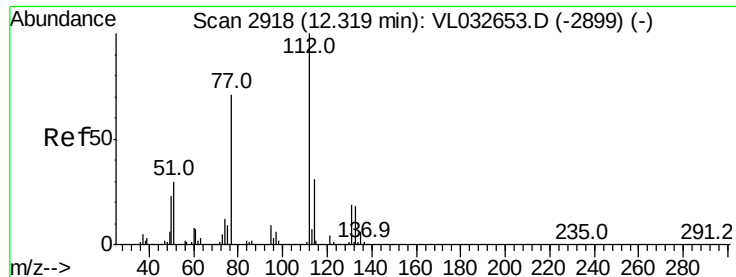
Tgt Ion:117 Resp: 4023607
Ion Ratio Lower Upper
117 100
82 62.8 52.7 79.1
119 34.5 26.7 40.1



#56
1,1,1,2-Tetrachloroethane
Concen: 1.024 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion:131 Resp: 189113
Ion Ratio Lower Upper
131 100
133 94.2 75.4 113.2
119 733.8 49.1 73.7#

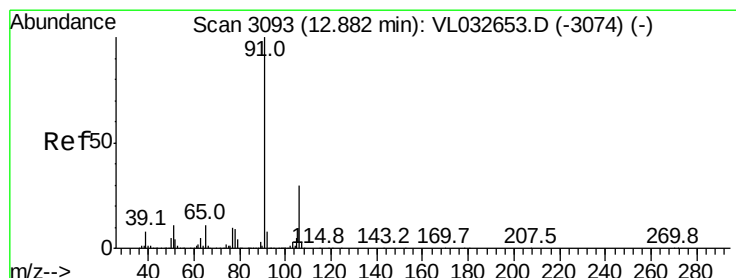
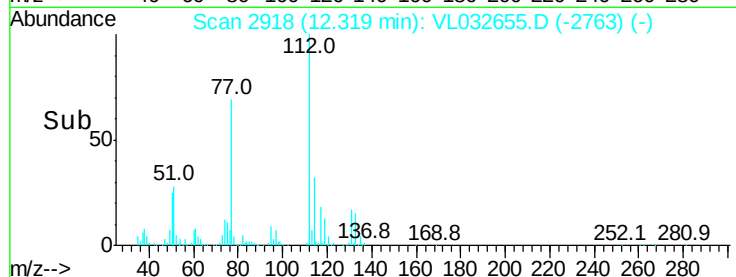
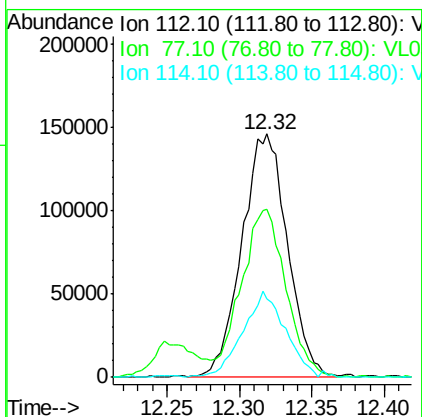
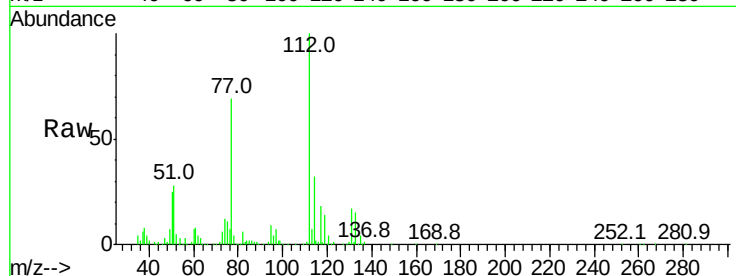




#57
Chlorobenzene
Concen: 1.037 ppbv
RT: 12.32 min Scan# 2918
Delta R.T. -0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

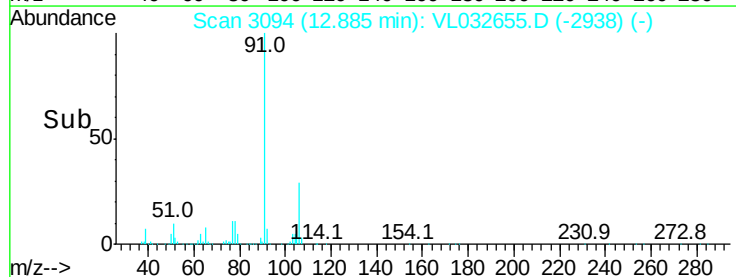
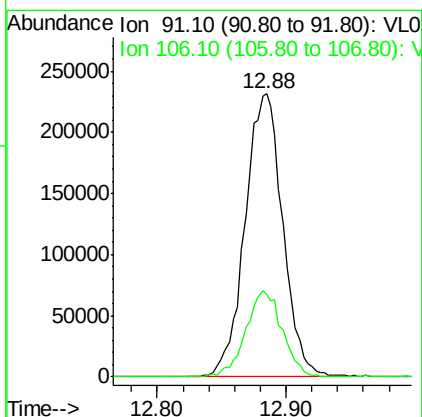
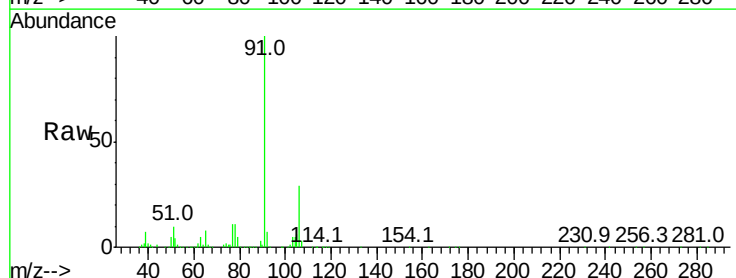
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

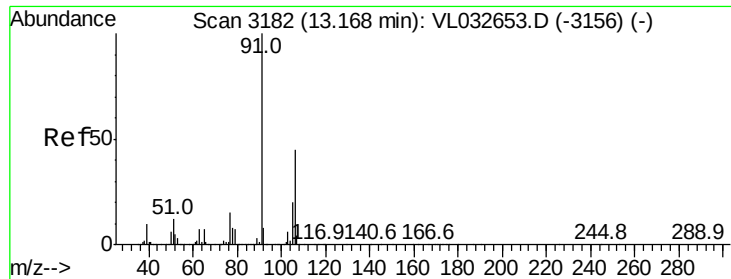
Tgt Ion	Ratio	Lower	Upper
112	100		
77	69.6	56.8	85.2
114	32.6	30.3	37.1



#58
Ethyl Benzene
Concen: 1.043 ppbv
RT: 12.88 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL032655.D
Acq: 18 Oct 2018 17:24

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.2	36.2





#59

m/p-Xylene

Concen: 0.913 ppbv

RT: 13.17 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

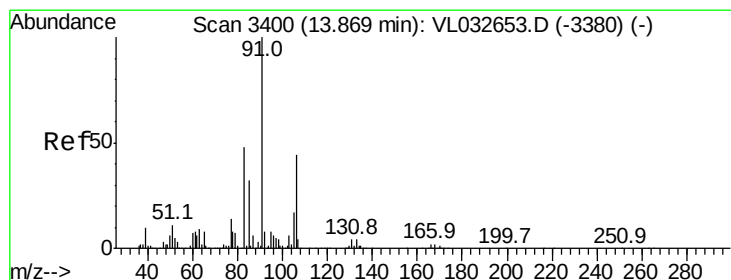
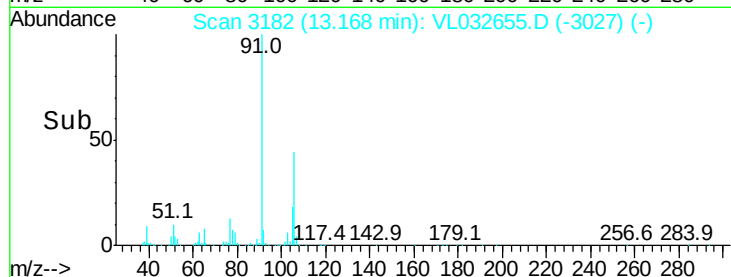
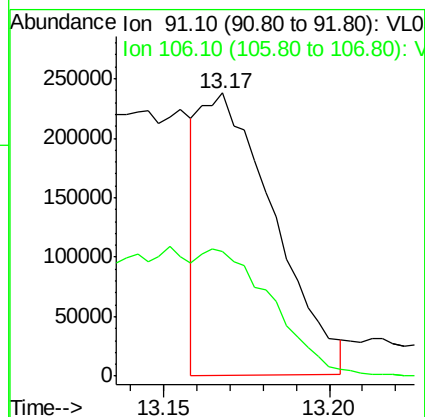
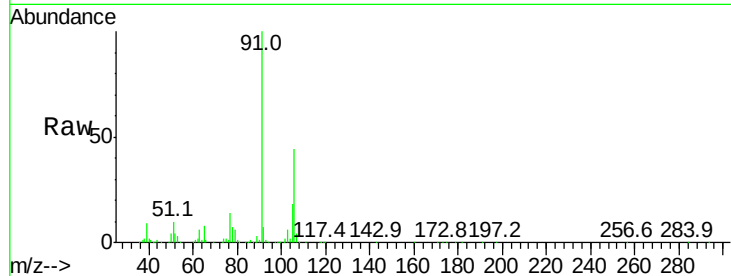
VSTDIC001

Tgt Ion: 91 Resp: 368438

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#



#60

o-Xylene

Concen: 1.073 ppbv

RT: 13.87 min Scan# 3399

Delta R.T. -0.00 min

Lab File: VL032655.D

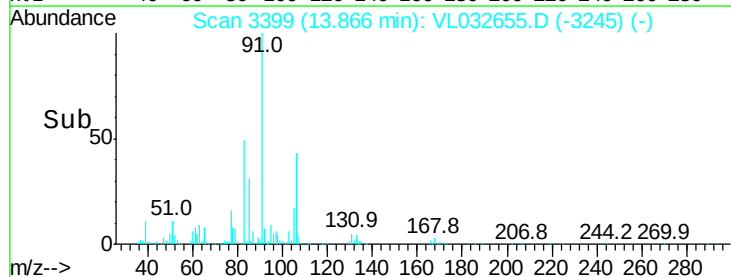
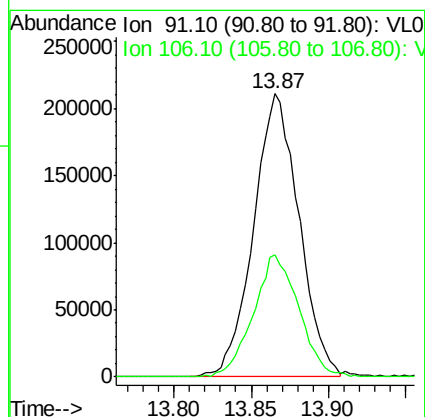
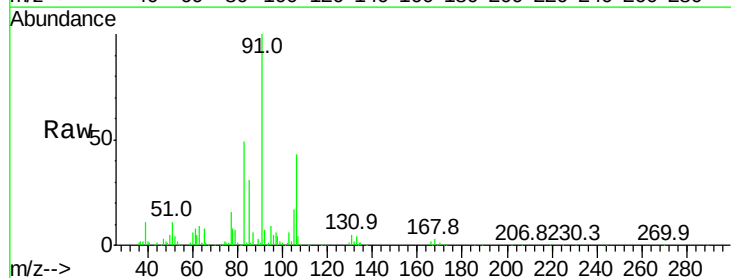
Acq: 18 Oct 2018 17:24

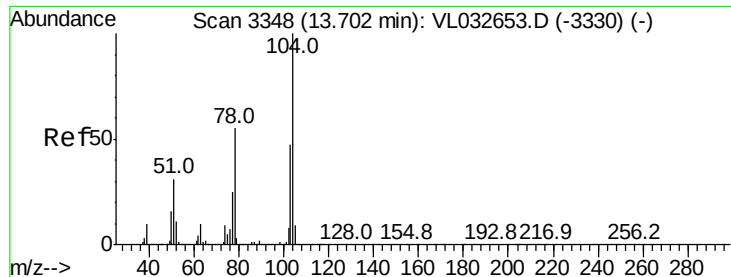
Tgt Ion: 91 Resp: 431310

Ion Ratio Lower Upper

91 100

106 43.6 22.1 66.1





#61

Styrene

Concen: 1.080 ppbv

RT: 13.70 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

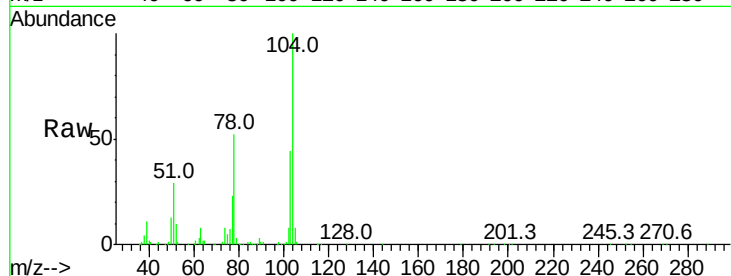
Tgt Ion:104 Resp: 263062

Ion Ratio Lower Upper

104 100

78 52.1 42.8 64.2

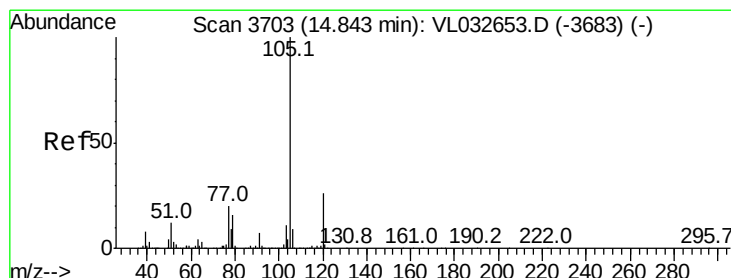
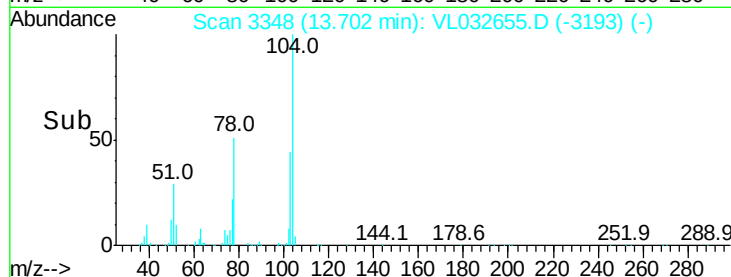
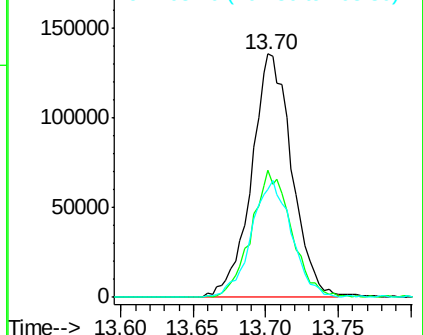
103 48.3 37.4 56.0



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: 1.053 ppbv

RT: 14.84 min Scan# 3703

Delta R.T. -0.00 min

Lab File: VL032655.D

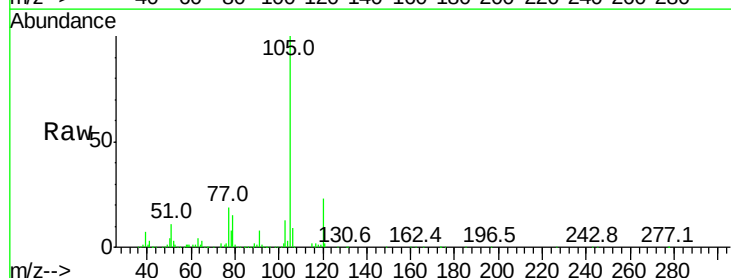
Acq: 18 Oct 2018 17:24

Tgt Ion:105 Resp: 603185

Ion Ratio Lower Upper

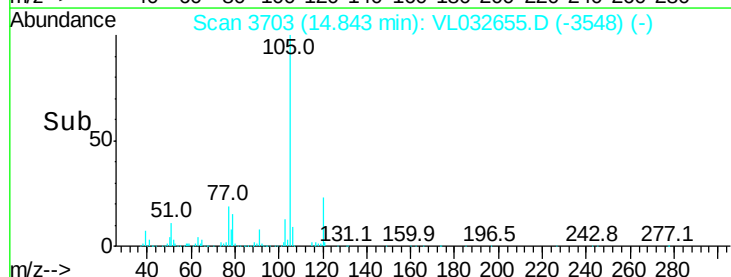
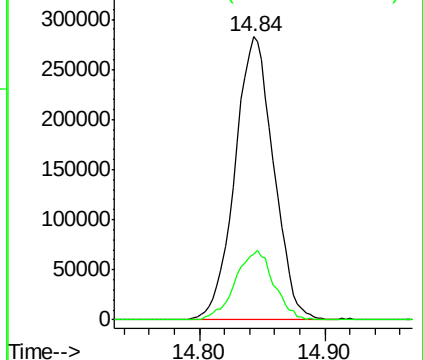
105 100

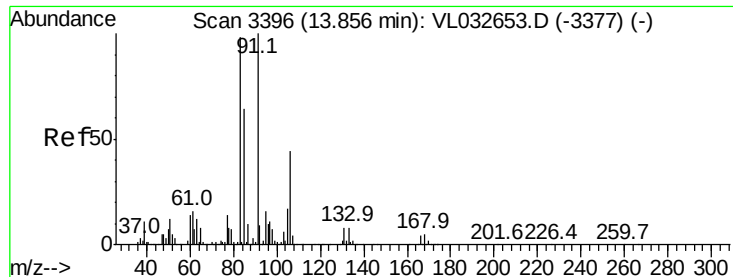
120 24.6 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

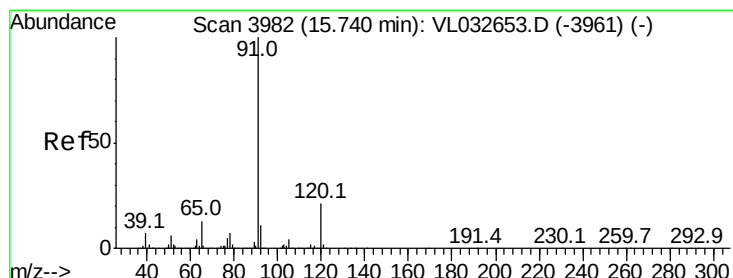
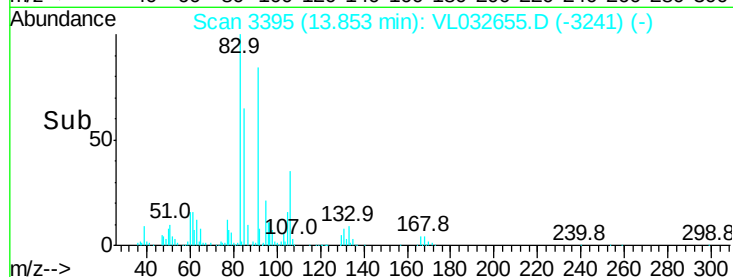
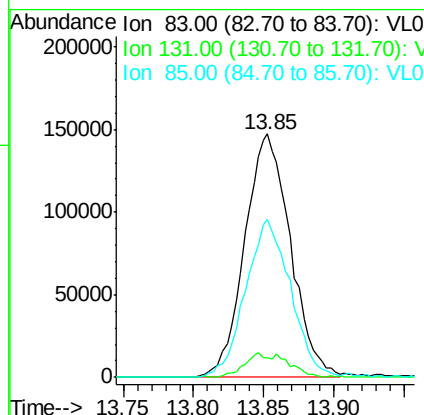
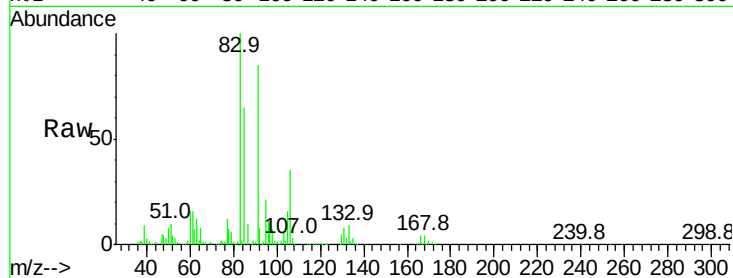




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.940 ppbv
 RT: 13.85 min Scan# 3395
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

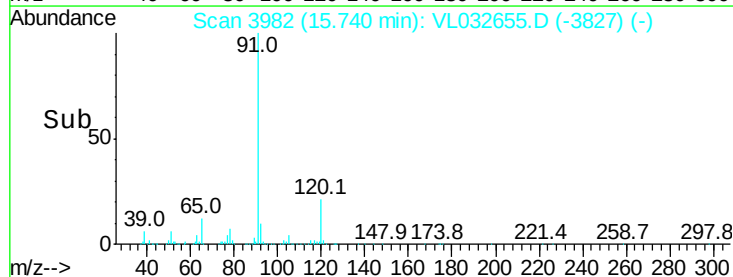
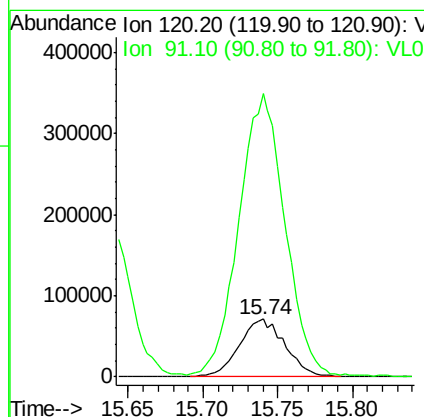
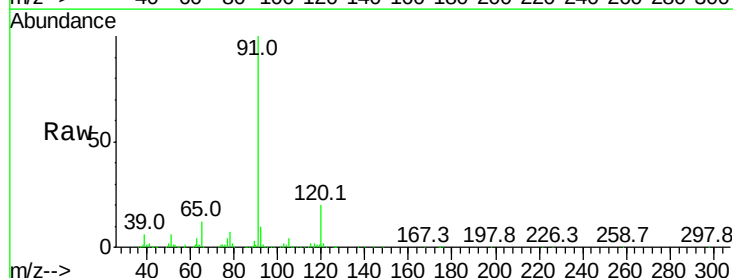
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

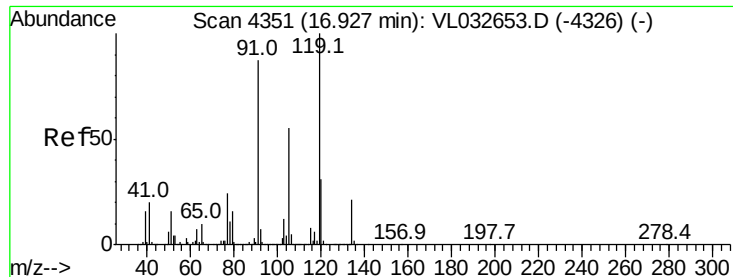
Tgt Ion: 83 Resp: 333368
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.3 12.9
 85 64.3 32.3 96.9



#64
 n-propylbenzene
 Concen: 1.026 ppbv
 RT: 15.74 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

Tgt Ion: 120 Resp: 148907
 Ion Ratio Lower Upper
 120 100
 91 509.3 390.2 585.2





#65

tert-Butylbenzene

Concen: 1.078 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

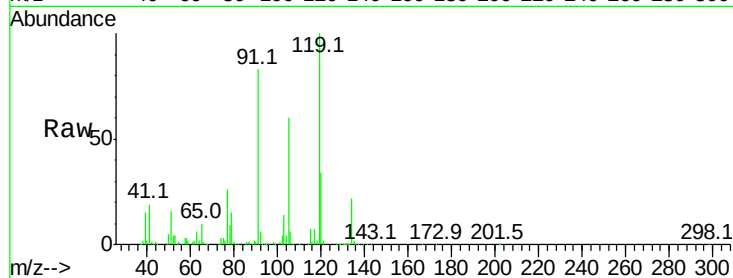
Tgt Ion: 119 Resp: 523711

Ion Ratio Lower Upper

119 100

91 85.4 67.8 101.8

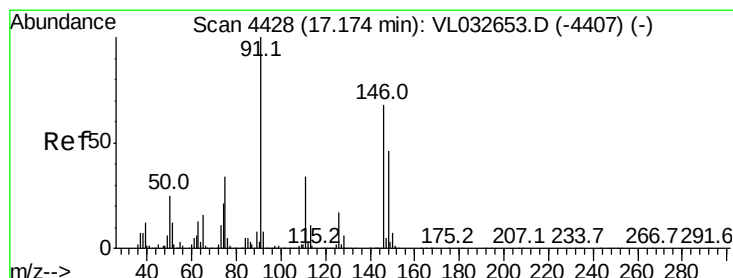
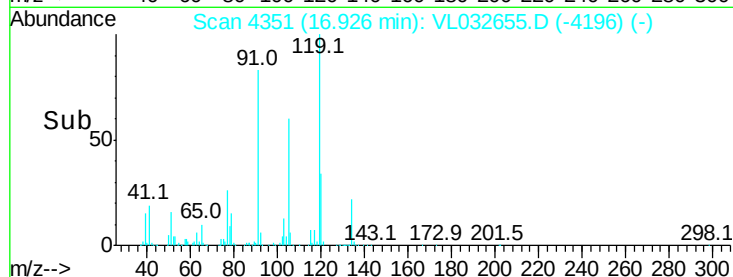
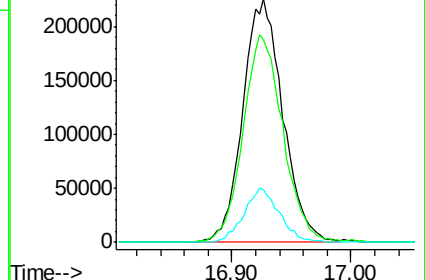
134 19.8 15.8 23.8



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.831 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

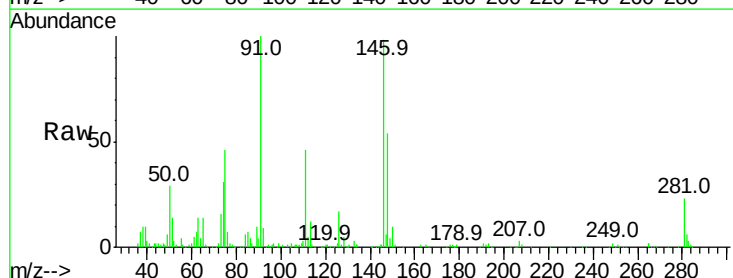
Tgt Ion: 91 Resp: 227746

Ion Ratio Lower Upper

91 100

126 18.1 13.9 20.9

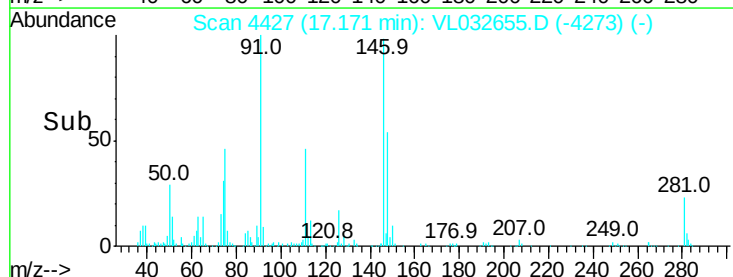
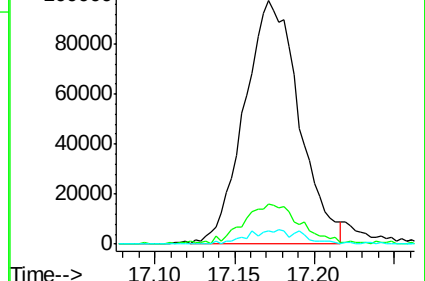
128 6.2 4.3 6.5

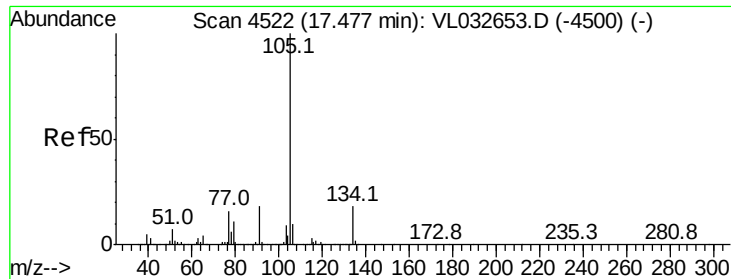


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

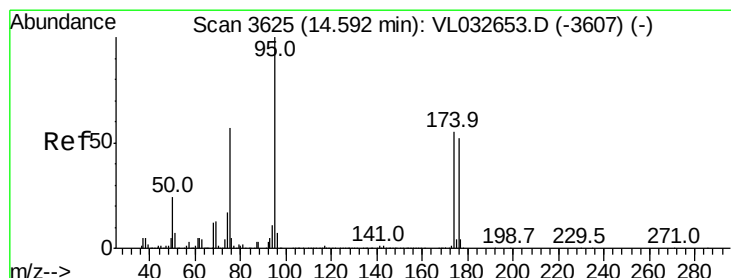
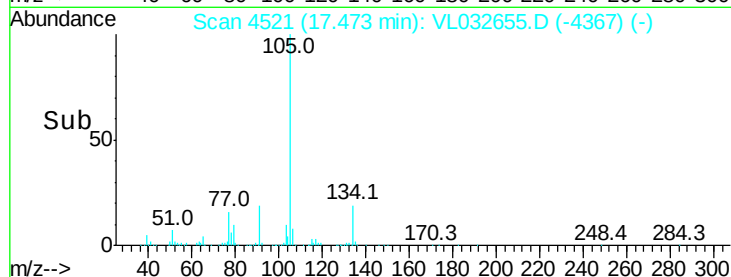
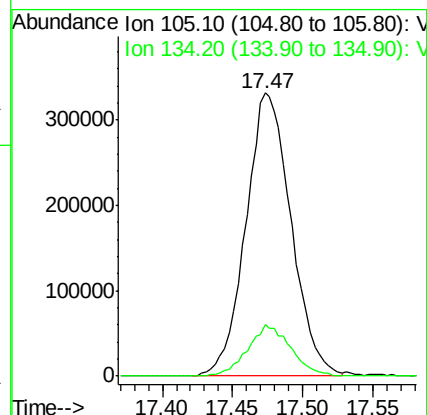
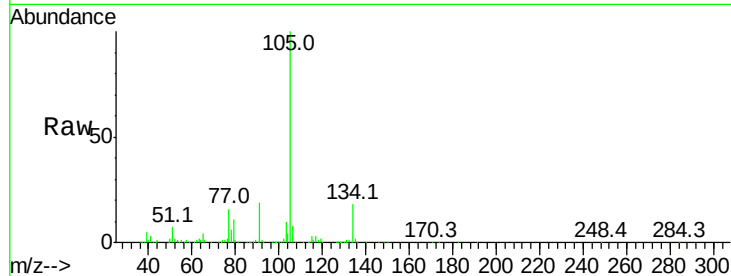




#67
 sec-Butylbenzene
 Concen: 1.008 ppbv
 RT: 17.47 min Scan# 4521
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

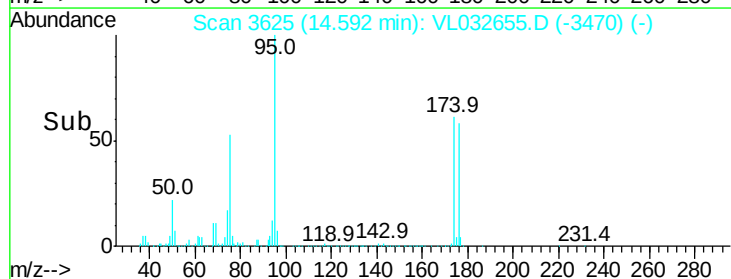
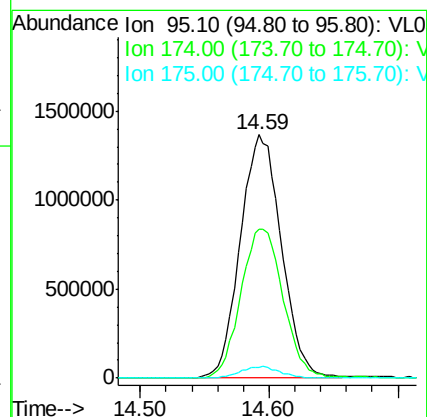
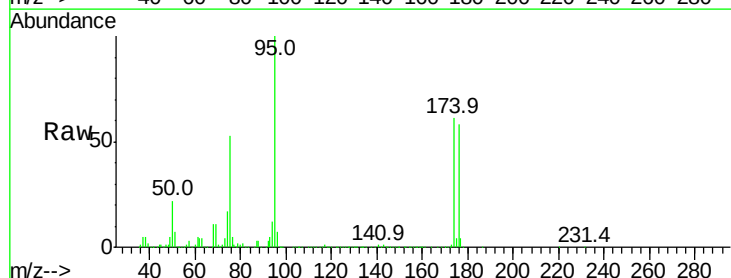
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

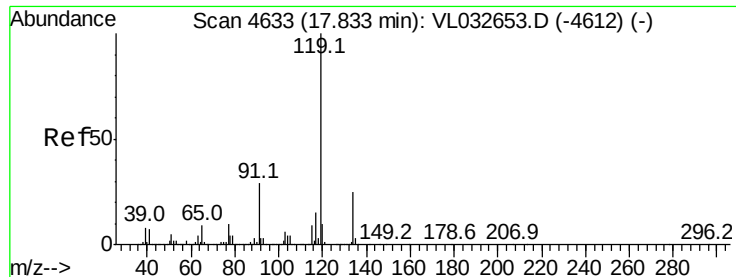
Tgt Ion: 105 Resp: 737446
 Ion Ratio Lower Upper
 105 100
 134 17.6 14.2 21.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.969 ppbv
 RT: 14.59 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

Tgt Ion: 95 Resp: 3020181
 Ion Ratio Lower Upper
 95 100
 174 63.2 46.0 69.0
 175 4.8 3.4 5.0





#69

p-Isopropyltoluene

Concen: 1.056 ppbv

RT: 17.83 min Scan# 4633

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

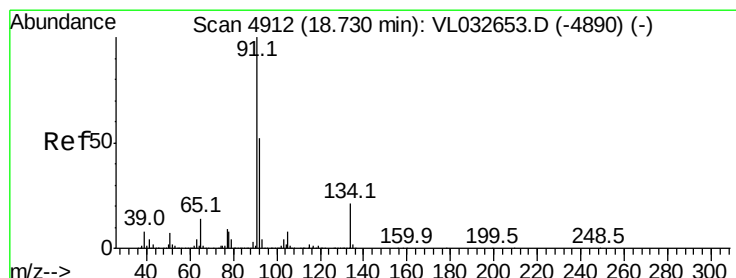
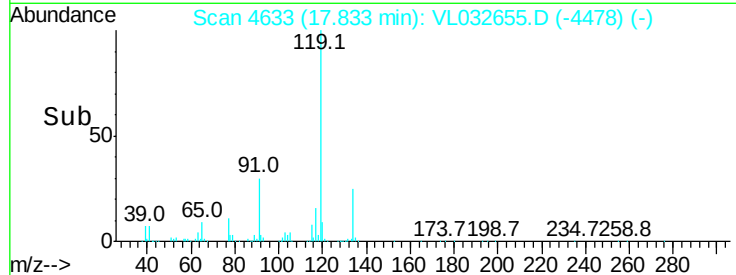
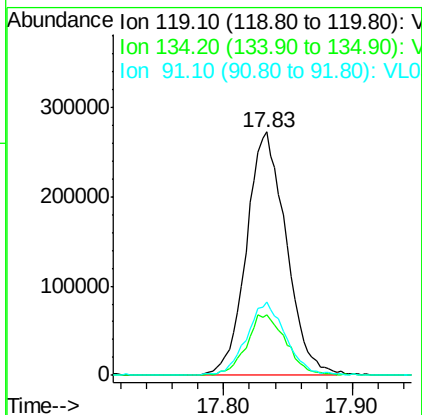
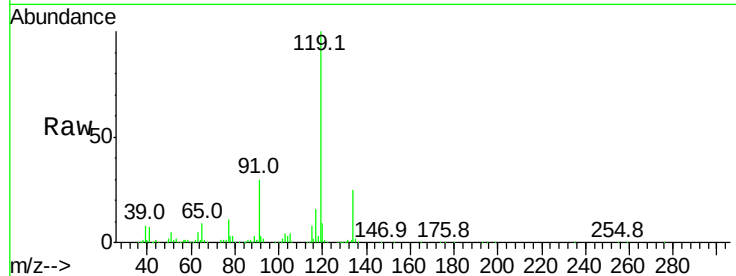
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:	119	Resp:	584364
Ion Ratio	Lower	Upper	
119	100		
134	24.8	20.2	30.2
91	29.8	24.0	36.0



#70

n-Butylbenzene

Concen: 0.971 ppbv

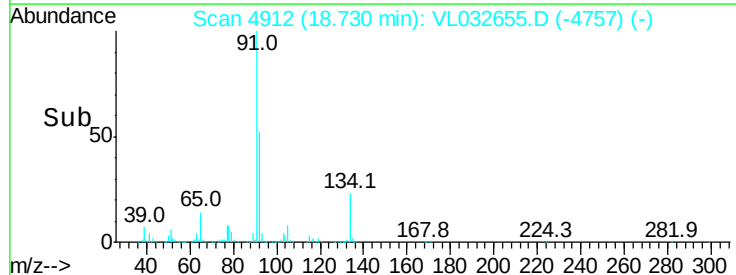
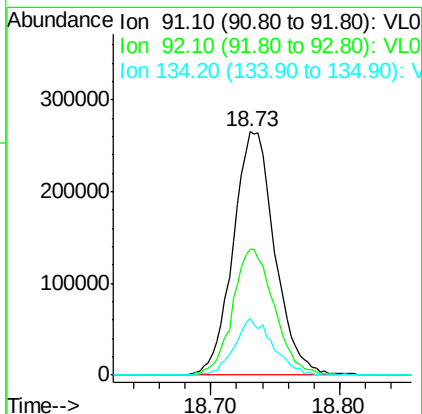
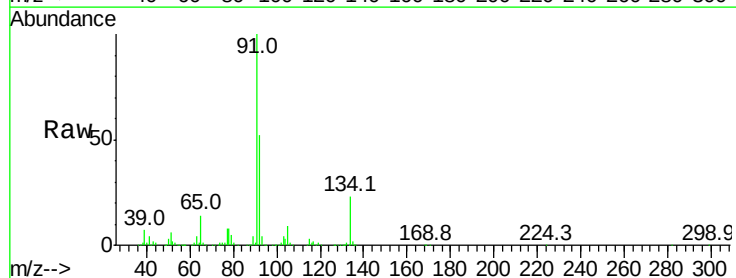
RT: 18.73 min Scan# 4912

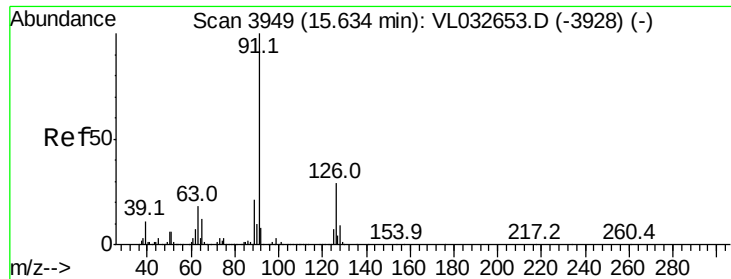
Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Tgt Ion:	91	Resp:	591820
Ion Ratio	Lower	Upper	
91	100		
92	52.3	43.0	64.4
134	21.6	17.0	25.6





#71

2-Chlorotoluene

Concen: 1.004 ppbv

RT: 15.63 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

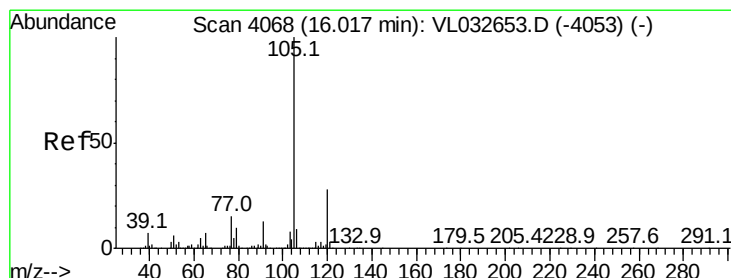
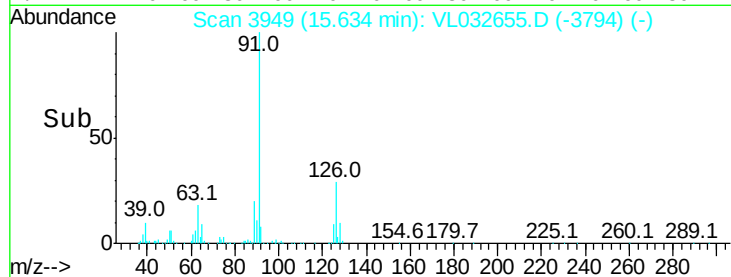
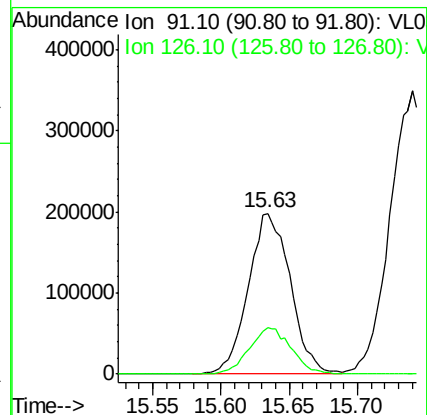
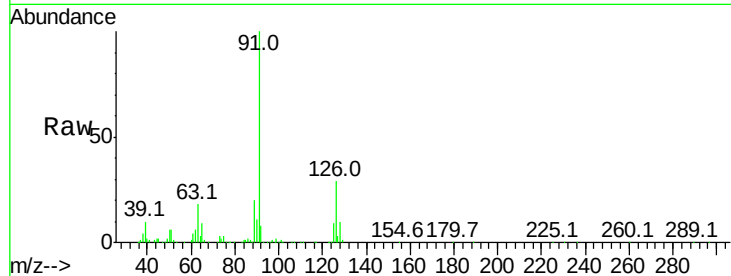
VSTDIC001

Tgt Ion: 91 Resp: 424884

Ion Ratio Lower Upper

91 100

126 29.0 11.8 47.4



#72

4-Ethyltoluene

Concen: 1.022 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Tgt Ion: 105 Resp: 443997

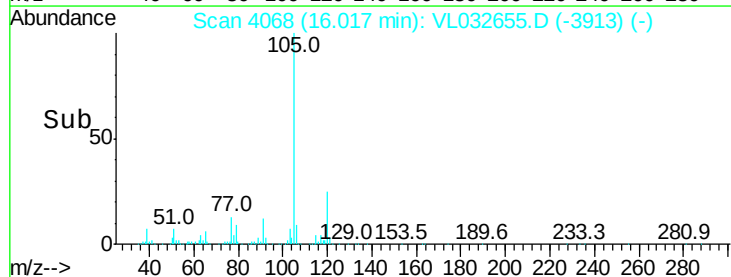
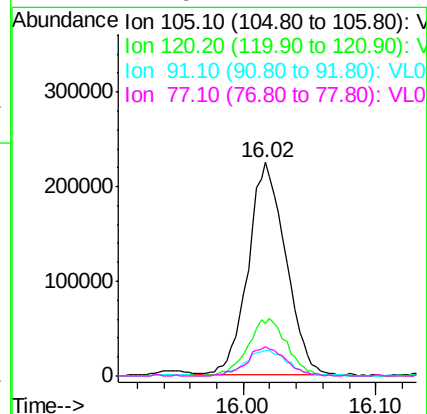
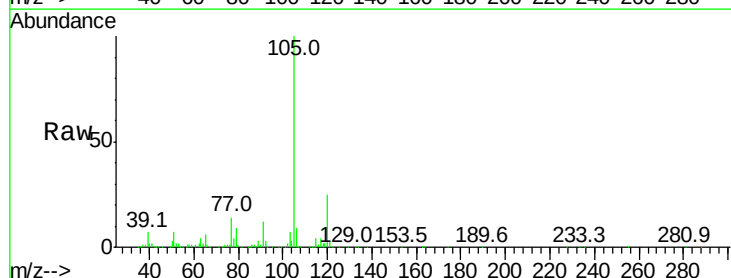
Ion Ratio Lower Upper

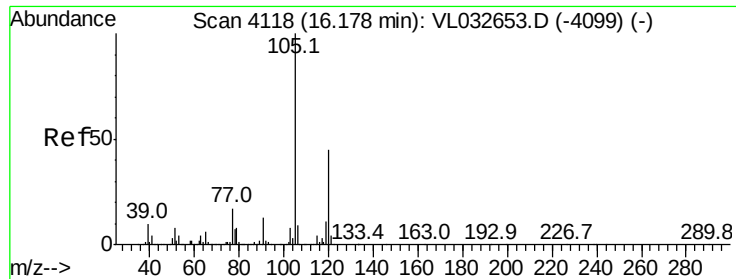
105 100

120 27.9 23.7 35.5

91 14.6 10.4 15.6

77 14.5 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 1.016 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

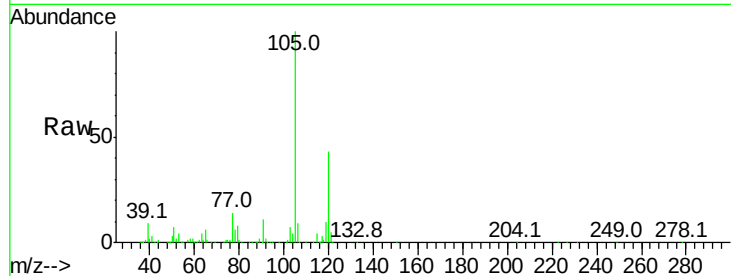
VSTDIC001

Tgt Ion:105 Resp: 438960

Ion Ratio Lower Upper

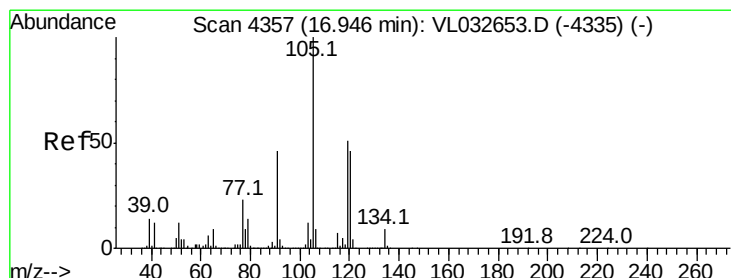
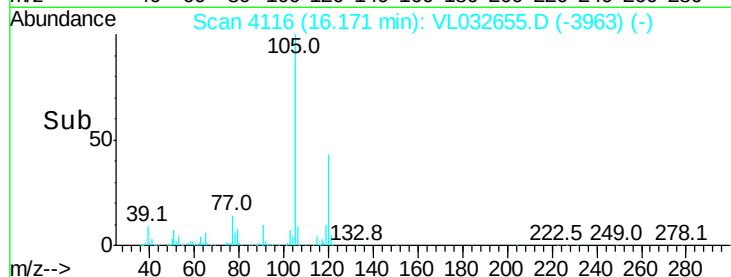
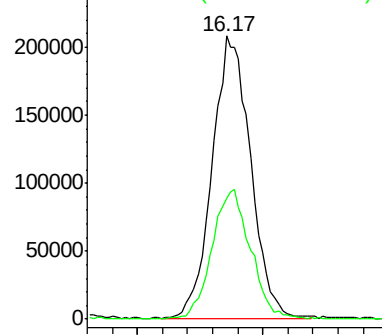
105 100

120 42.4 35.4 53.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.033 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. -0.01 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Tgt Ion:105 Resp: 491339

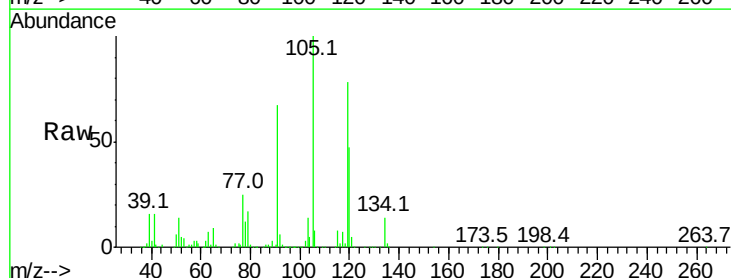
Ion Ratio Lower Upper

105 100

120 47.1 35.8 53.8

91 66.3 33.2 49.8#

77 24.9 16.2 24.4#

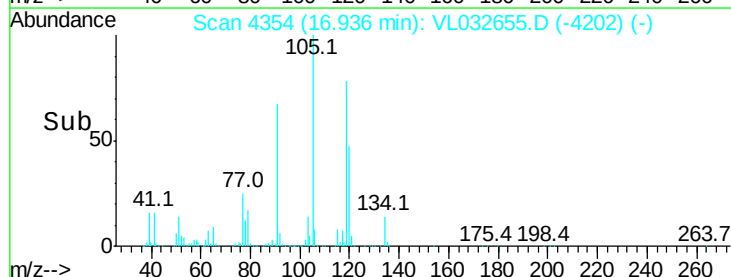
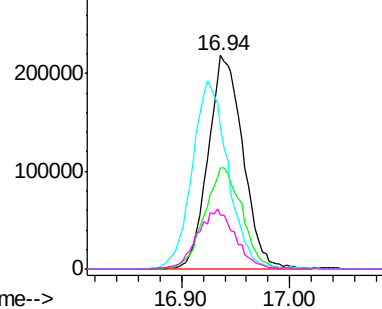


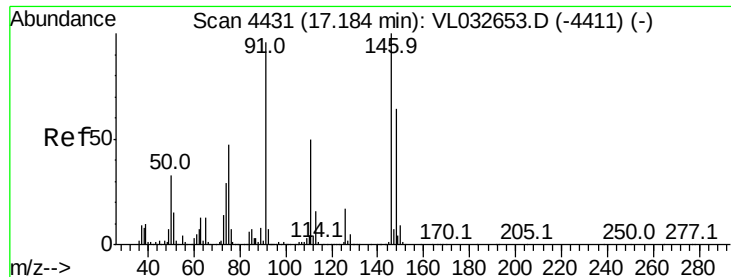
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

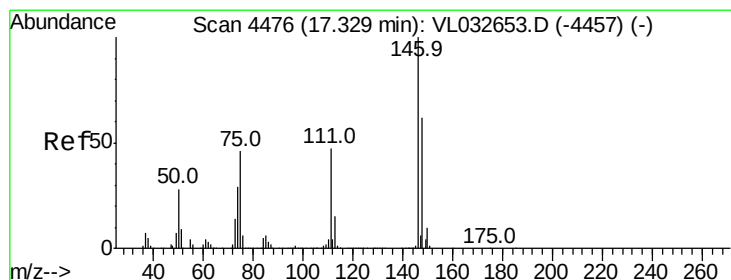
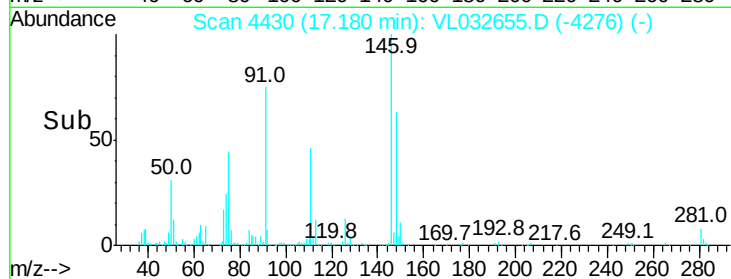
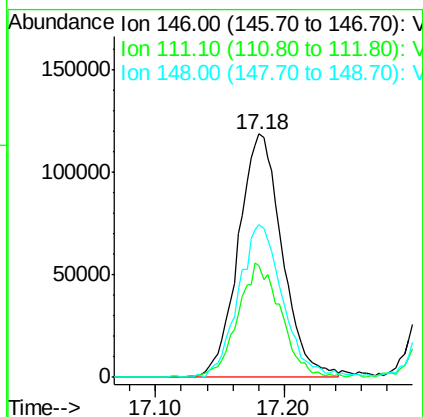
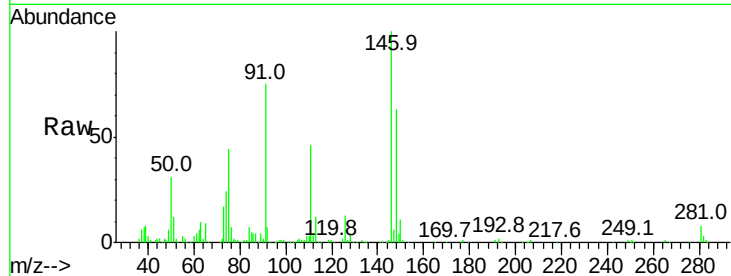




#75
 1,3-Dichlorobenzene
 Concen: 1.004 ppbv
 RT: 17.18 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

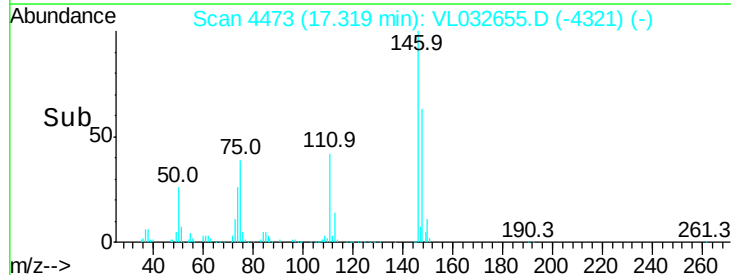
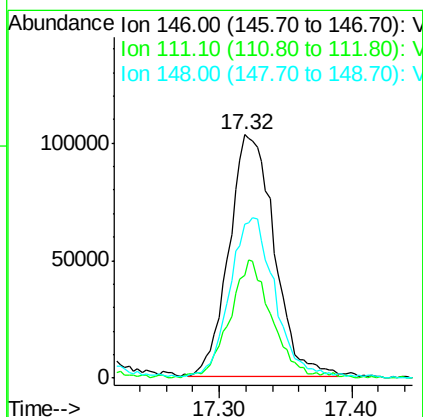
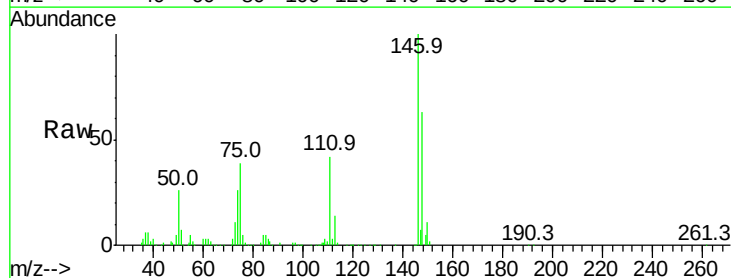
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

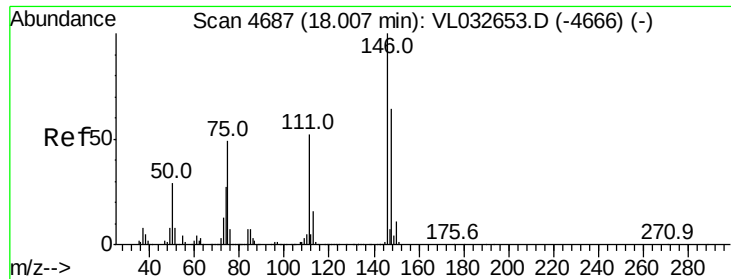
Tgt Ion:146 Resp: 277554
 Ion Ratio Lower Upper
 146 100
 111 47.0 24.4 73.2
 148 64.4 31.9 95.9



#76
 1,4-Dichlorobenzene
 Concen: 0.968 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. -0.01 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

Tgt Ion:146 Resp: 244024
 Ion Ratio Lower Upper
 146 100
 111 46.3 23.7 71.1
 148 67.6 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 0.977 ppbv

RT: 18.01 min Scan# 4687

Delta R.T. -0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

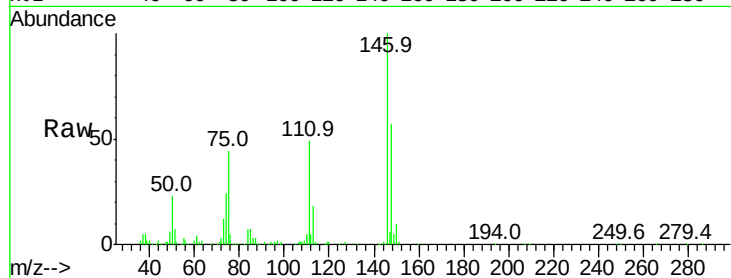
Tgt Ion:146 Resp: 259763

Ion Ratio Lower Upper

146 100

111 47.9 25.3 75.8

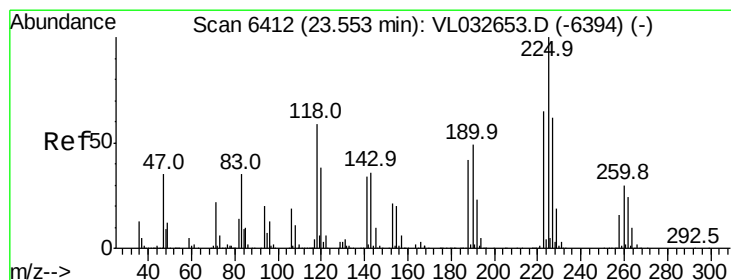
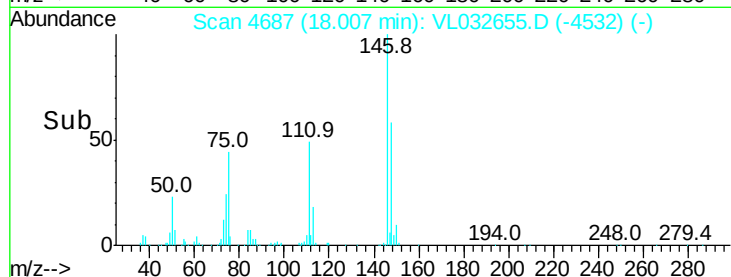
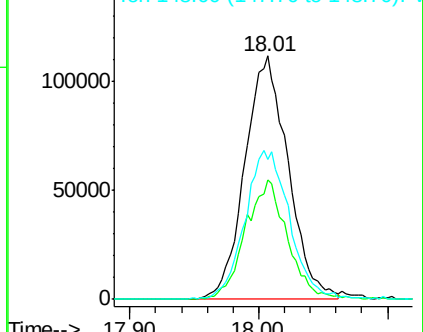
148 63.6 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.901 ppbv

RT: 23.56 min Scan# 6414

Delta R.T. 0.01 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

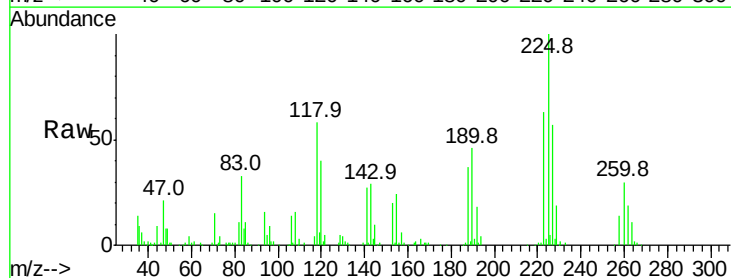
Tgt Ion:225 Resp: 134044

Ion Ratio Lower Upper

225 100

223 62.9 50.7 76.1

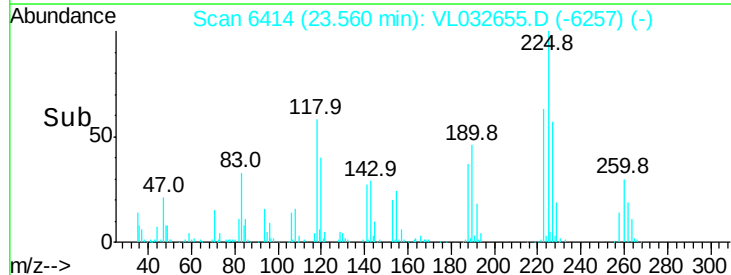
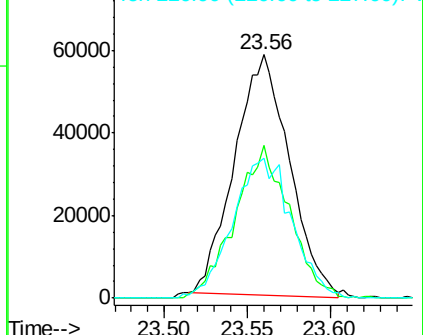
227 62.8 50.7 76.1

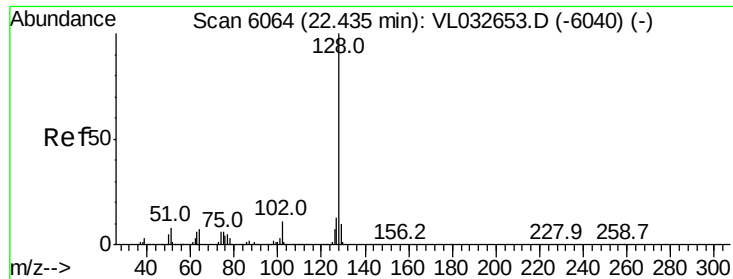


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.717 ppbv

RT: 22.44 min Scan# 6065

Delta R.T. 0.00 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

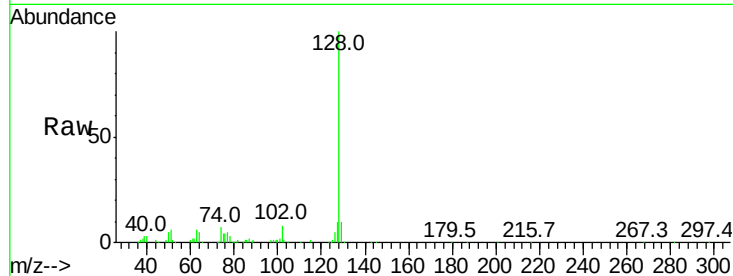
Tgt Ion:128 Resp: 232030

Ion Ratio Lower Upper

128 100

127 10.1 10.3 15.5#

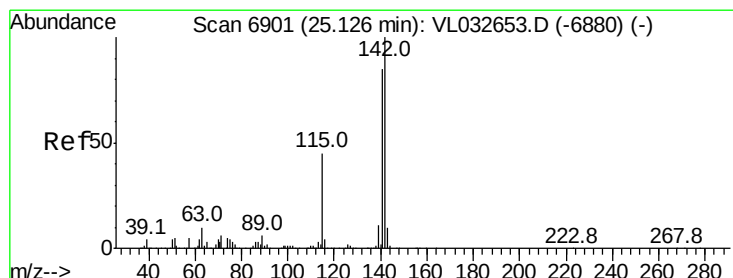
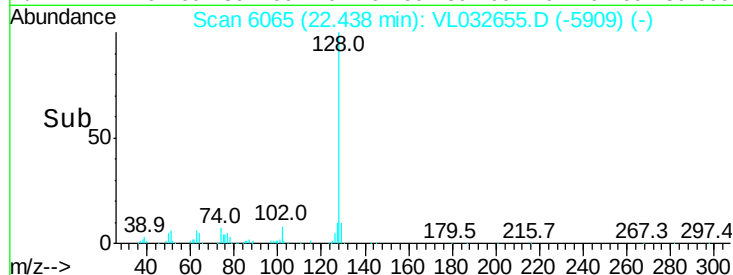
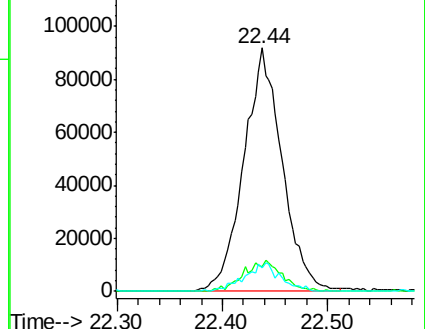
129 9.8 8.6 13.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.304 ppbv

RT: 25.14 min Scan# 6904

Delta R.T. 0.01 min

Lab File: VL032655.D

Acq: 18 Oct 2018 17:24

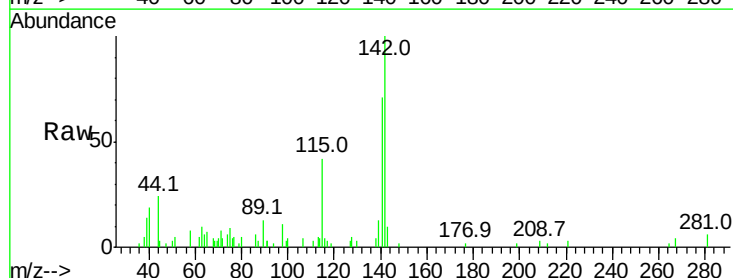
Tgt Ion:142 Resp: 19077

Ion Ratio Lower Upper

142 100

141 91.5 67.5 101.3

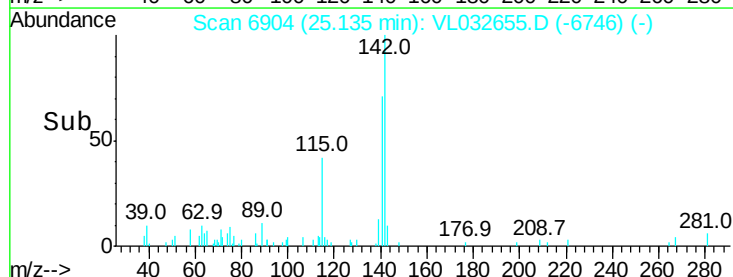
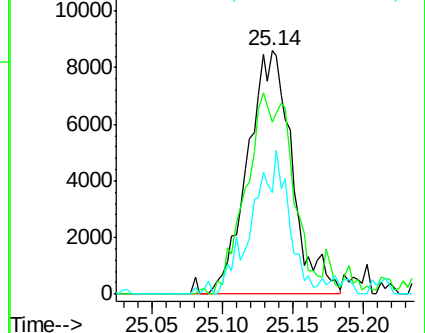
115 52.3 33.5 50.3#

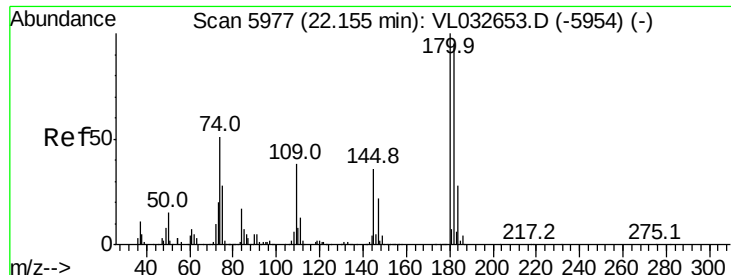


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.391 ppbv
 RT: 22.15 min Scan# 5977
 Delta R.T. -0.00 min
 Lab File: VL032655.D
 Acq: 18 Oct 2018 17:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:180 Resp: 62815
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.5 114.7#
 184 0.0 24.7 37.1#

