

Data File : VL032651.D
Acq On : 17 Oct 2018 21:58
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Oct 18 09:58:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 17 08:55:11 2018
QLast Update : Wed Oct 17 08:55:11 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1238307	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2699777	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2853697	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2110246	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.09	85	1349814	14.989	ppbv	100
3) Chlorodifluoromethane	3.03	51	970792	9.370	ppbv	100
4) Chloromethane	3.18	50	533056	9.425	ppbv	97
5) Vinyl Chloride	3.30	62	550291	9.657	ppbv	100
6) Bromomethane	3.53	94	338779	9.412	ppbv	94
7) Chloroethane	3.62	64	214757	9.628	ppbv	98
8) Dichlorotetrafluoroethane	3.23	85	1257680	9.010	ppbv	99
9) Propene	3.05	41	401553	10.572	ppbv	99
10) Heptane	8.27	43	1589983	11.178	ppbv	99
11) Trichlorofluoromethane	4.02	101	1496807	9.410	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1073618	9.218	ppbv	99
13) Ethanol	3.66	45	120641	10.264	ppbv	97
14) Bromoethene	3.80	108	459843	10.791	ppbv	98
15) Acetone	3.92	43	1101032	9.991	ppbv	100
16) 1,3-Butadiene	3.38	39	448808	10.999	ppbv	85
17) tert-Butyl alcohol	4.37	59	115810	11.515	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	599836	11.420	ppbv	98
19) Isopropyl Alcohol	4.04	45	837522	10.762	ppbv #	97
20) Methylene Chloride	4.43	84	522215	10.579	ppbv	92
21) Allyl Chloride	4.49	41	870620	10.527	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	588982	9.707	ppbv	94
23) Vinyl Acetate	5.17	43	2032510	11.594	ppbv	99
24) 1,1-Dichloroethane	5.11	63	1617766	9.954	ppbv	100
25) Ethyl Acetate	5.79	43	2730806	10.473	ppbv	100
26) Hexane	5.80	57	1269300	10.807	ppbv	99
27) Carbon Disulfide	4.64	76	1425837	10.046	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	1676153	11.356	ppbv	100
29) Chloroform	5.87	83	1994019	9.687	ppbv	96
30) Cyclohexane	7.26	84	1034767	11.172	ppbv	99
31) cis-1,2-Dichloroethene	5.66	61	1204357	10.674	ppbv	94
32) 1,1,1-Trichloroethane	6.64	97	1962021	9.554	ppbv	98
34) 2-Butanone	5.35	43	1777794	11.864	ppbv	100
35) Carbon Tetrachloride	7.16	117	2007513	9.595	ppbv	98
36) Benzene	7.03	78	2540222	11.608	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1593585	10.618	ppbv	100
38) Trichloroethene	7.98	130	915539	11.127	ppbv	97
39) 1,2-Dichloropropane	7.76	63	1018645	11.443	ppbv	99
40) 1,4-Dioxane	7.98	88	380086	12.358	ppbv #	99
41) Tetrahydrofuran	6.17	42	999895	12.577	ppbv	100
42) Bromodichloromethane	7.94	83	2170766	10.610	ppbv	99
43) Methyl Methacrylate	8.16	69	1058396	12.473	ppbv	99

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 17 08:55:11 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	4447608	11.465	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1493634	13.463	ppbv	100
46) cis-1,3-Dichloropropene	8.86	75	1593284	12.615	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	1121691	10.544	ppbv	98
48) Dibromochloromethane	10.47	129	1918451	10.617	ppbv	99
49) Bromoform	13.23	173	1446599	10.596	ppbv	100
50) 4-Methyl-2-Pentanone	8.89	43	2562693	11.620	ppbv	100
51) 2-Hexanone	10.29	43	2245544	12.948	ppbv	99
52) Tetrachloroethene	11.40	164	854692	11.864	ppbv	98
53) Toluene	9.97	91	3130707	12.549	ppbv	99
54) 1,2-Dibromoethane	10.78	107	1693831	11.120	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.30	131	1257426	9.596	ppbv	100
57) Chlorobenzene	12.32	112	2140959	9.865	ppbv	99
58) Ethyl Benzene	12.89	91	3879367	12.105	ppbv	99
59) m/p-Xylene	13.17	91	2912518	10.181	ppbv #	19
60) o-Xylene	13.87	91	3147942	11.043	ppbv	99
61) Styrene	13.71	104	2250718	13.027	ppbv	99
62) Isopropylbenzene	14.85	105	4421104	10.886	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.86	83	2359574	9.379	ppbv	100
64) n-propylbenzene	15.74	120	1126913	10.951	ppbv	98
65) tert-Butylbenzene	16.93	119	3739459	10.852	ppbv	98
66) Benzyl Chloride	17.18	91	2199249	11.320	ppbv	99
67) sec-Butylbenzene	17.48	105	5491345	10.588	ppbv	99
69) p-Isopropyltoluene	17.84	119	4355382	11.095	ppbv	99
70) n-Butylbenzene	18.74	91	4797949	11.094	ppbv	100
71) 2-Chlorotoluene	15.64	91	3481629	11.597	ppbv	99
72) 4-Ethyltoluene	16.02	105	3568391	11.579	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	3386297	11.048	ppbv	99
74) 1,2,4-Trimethylbenzene	16.95	105	3485355	10.328	ppbv #	91
75) 1,3-Dichlorobenzene	17.19	146	1889880	9.636	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	1875738	10.496	ppbv	99
77) 1,2-Dichlorobenzene	18.01	146	1869125	9.914	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	704893	6.680	ppbv	100
79) Naphthalene	22.44	128	2833703	12.348	ppbv	99
80) Naphthalene,2-methyl-	25.13	142	761998	10.242	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	1315275	11.546	ppbv	99

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

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MSVOA_L
ClientSampleId :
VSTDCCC010EC

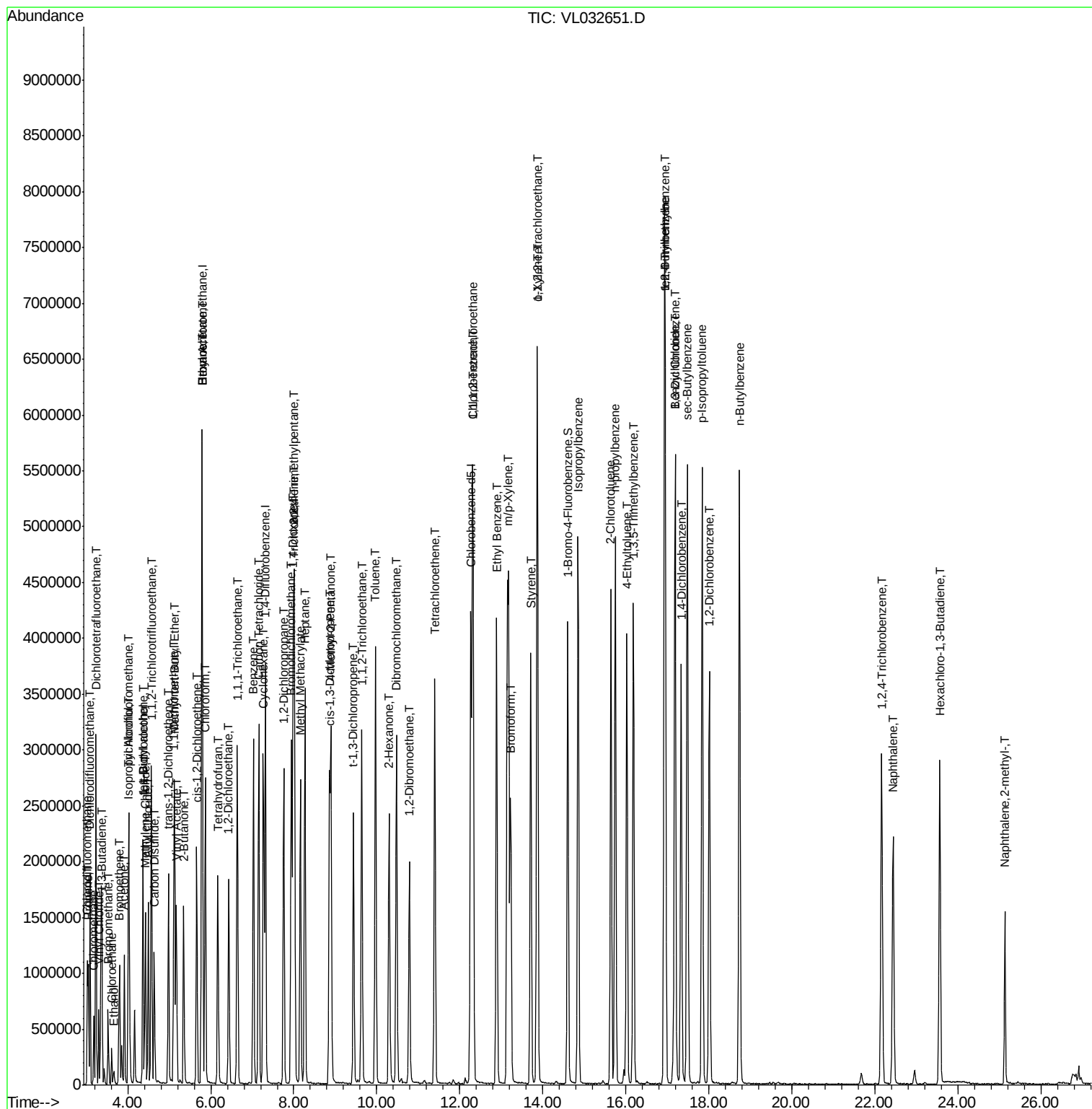
Quant Time: Oct 18 09:58:10 2018

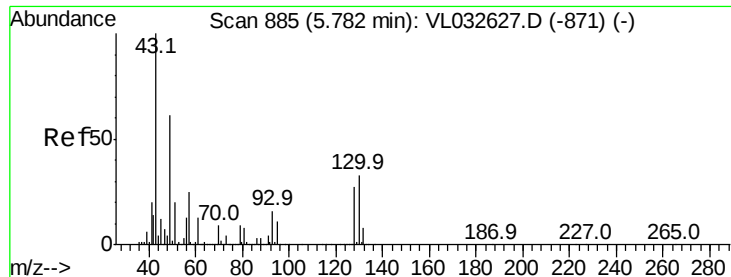
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL101718AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

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ClientSampleId :

VSTDCCC010EC

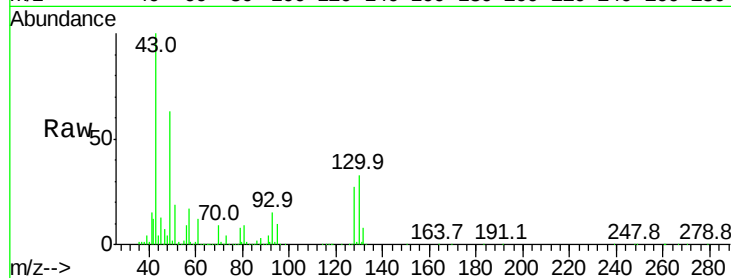
Tgt Ion: 49 Resp: 1238307

Ion Ratio Lower Upper

49 100

128 44.1 22.3 66.8

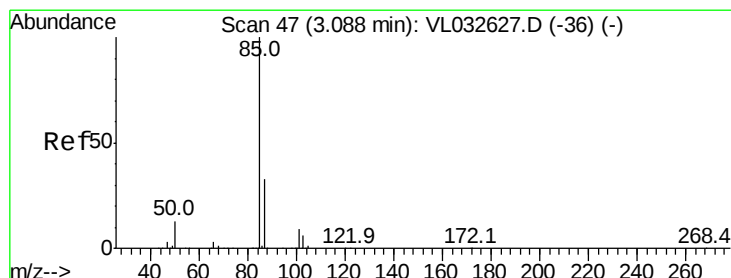
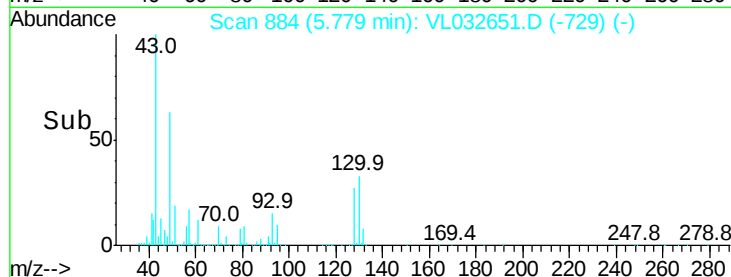
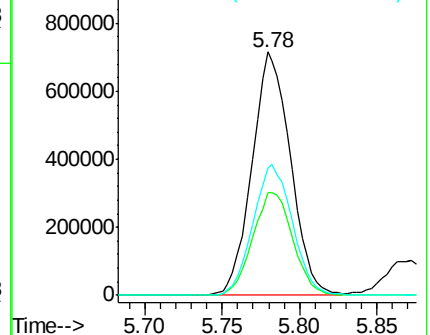
130 55.5 28.4 85.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 14.989 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032651.D

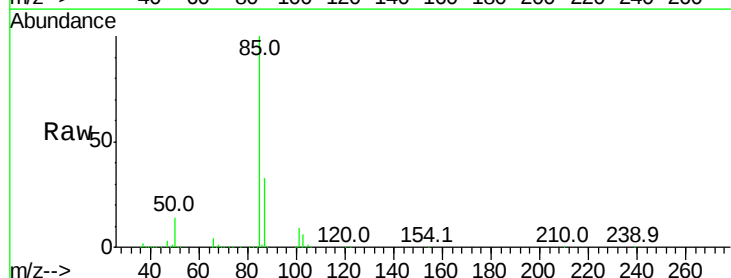
Acq: 17 Oct 2018 21:58

Tgt Ion: 85 Resp: 1349814

Ion Ratio Lower Upper

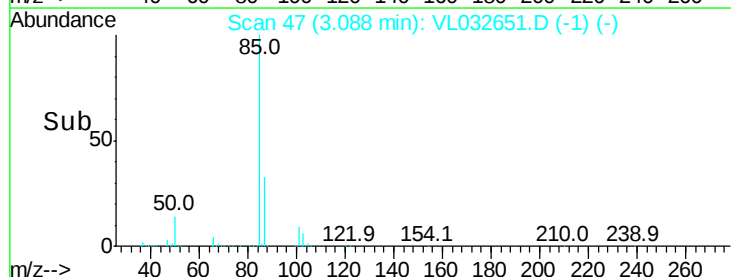
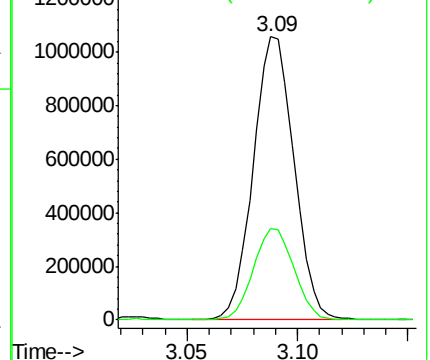
85 100

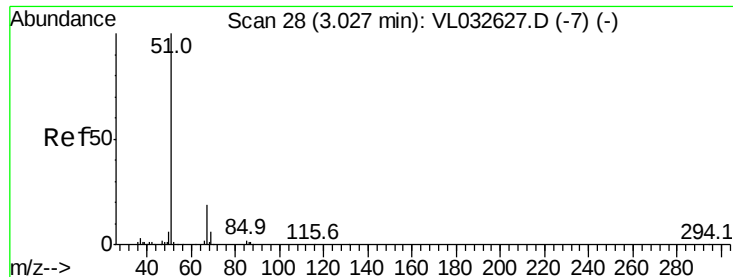
87 32.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

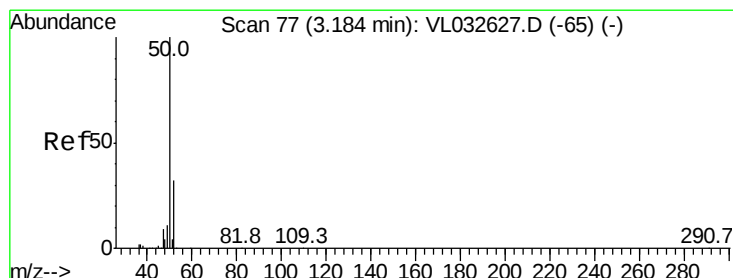
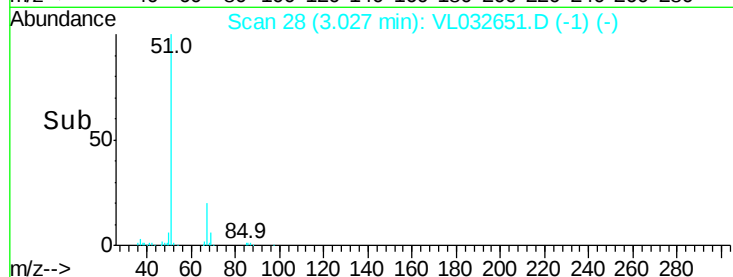
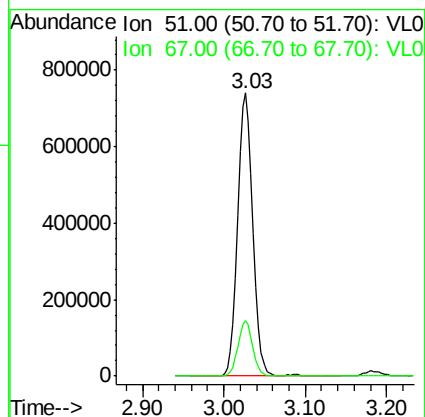
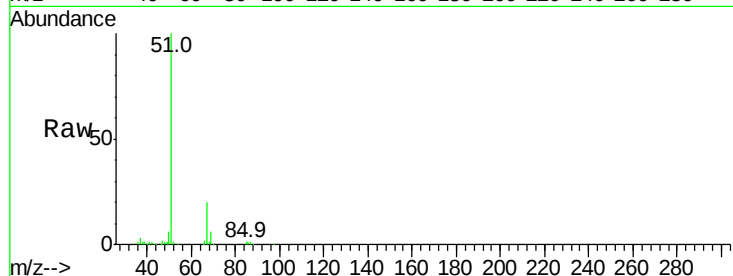




#3
 Chlorodifluoromethane
 Concen: 9.370 ppbv
 RT: 3.03 min Scan# 28
 Delta R.T. 0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

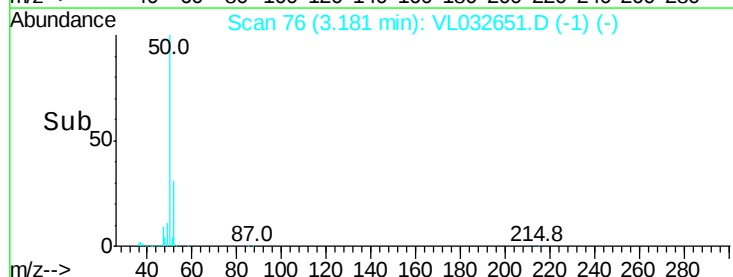
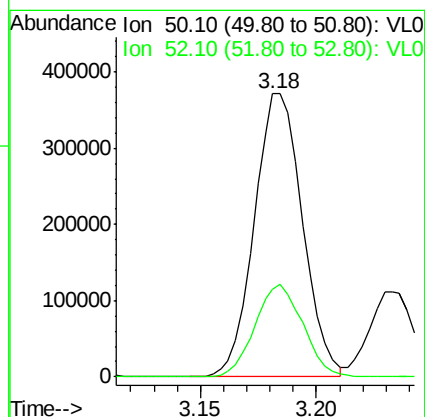
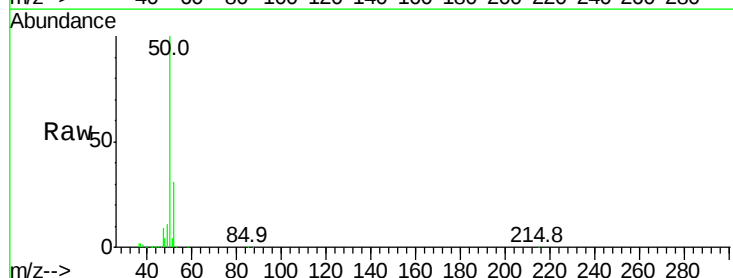
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

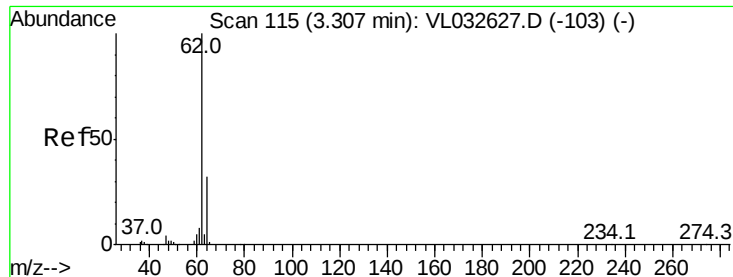
Tgt Ion: 51 Resp: 970792
 Ion Ratio Lower Upper
 51 100
 67 18.9 15.2 22.8



#4
 Chloromethane
 Concen: 9.425 ppbv
 RT: 3.18 min Scan# 76
 Delta R.T. -0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

Tgt Ion: 50 Resp: 533056
 Ion Ratio Lower Upper
 50 100
 52 30.8 25.9 38.9





#5

Vinyl Chloride

Concen: 9.657 ppbv

RT: 3.30 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

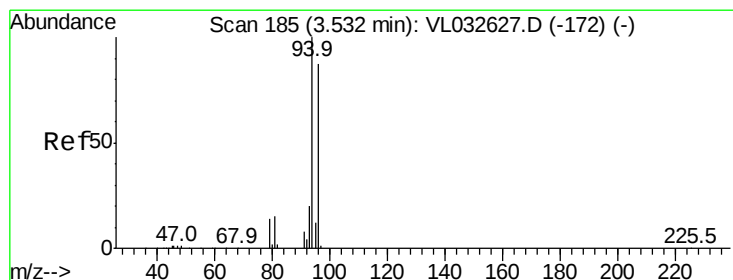
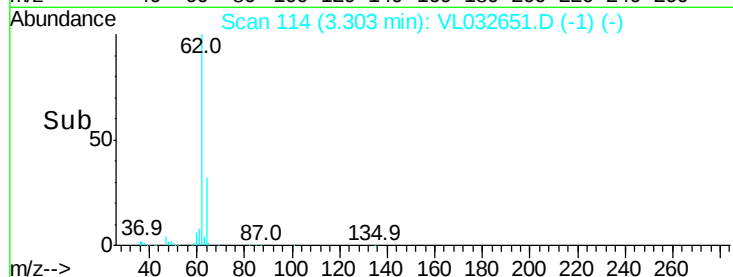
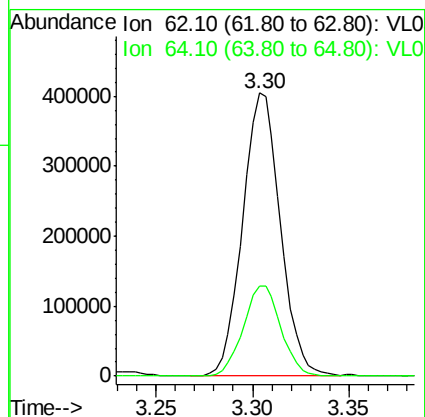
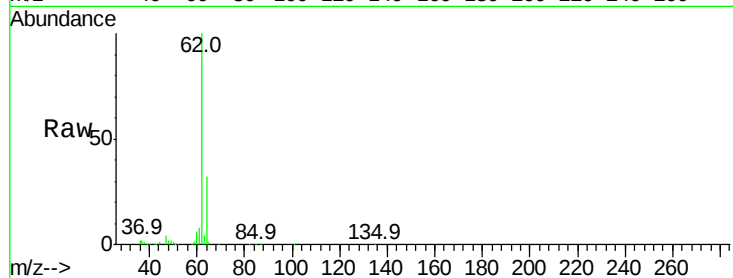
VSTDCCC010EC

Tgt Ion: 62 Resp: 550291

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3



#6

Bromomethane

Concen: 9.412 ppbv

RT: 3.53 min Scan# 184

Delta R.T. -0.00 min

Lab File: VL032651.D

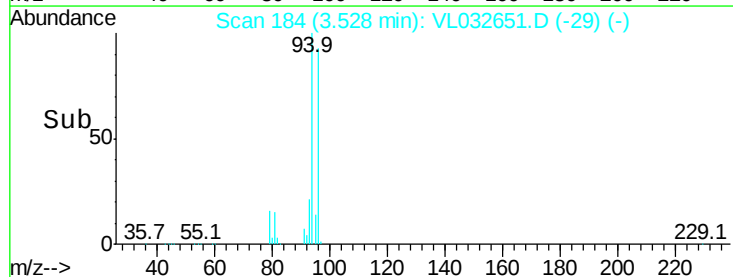
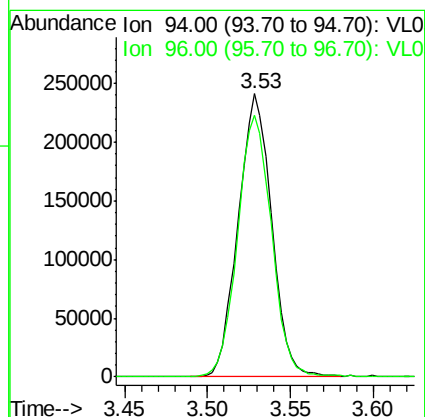
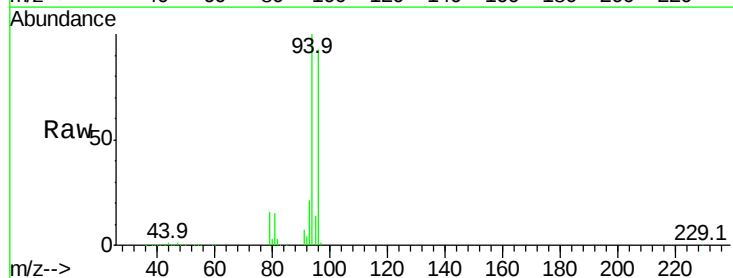
Acq: 17 Oct 2018 21:58

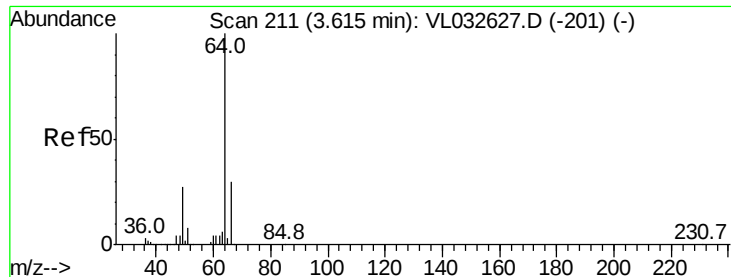
Tgt Ion: 94 Resp: 338779

Ion Ratio Lower Upper

94 100

96 92.5 69.8 104.8





#7

Chloroethane

Concen: 9.628 ppbv

RT: 3.62 min Scan# 211

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

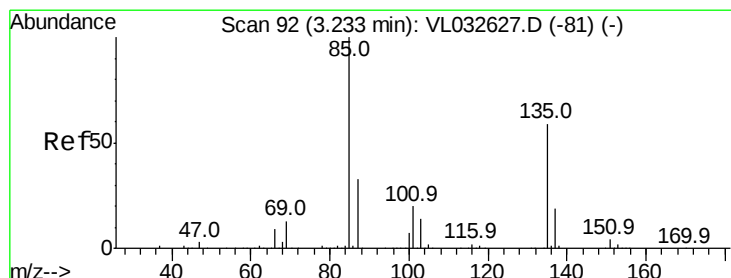
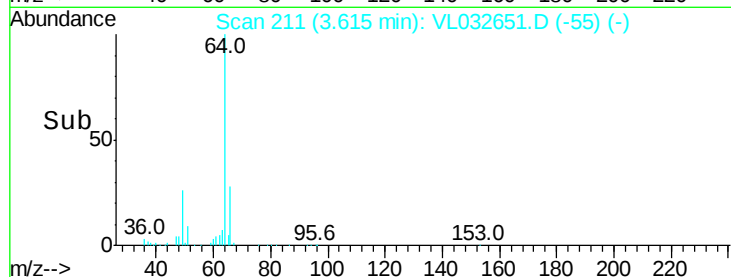
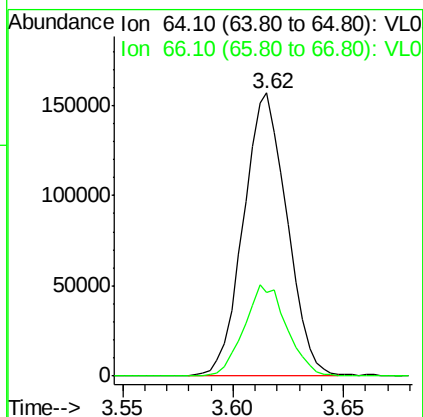
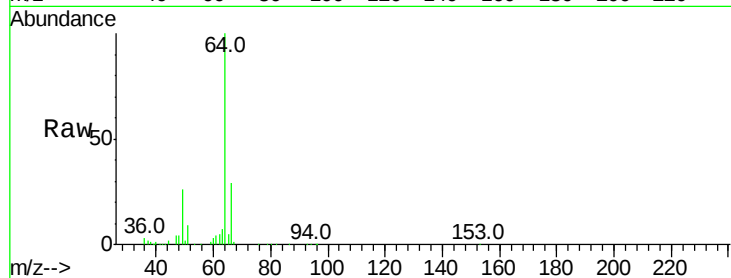
VSTDCCC010EC

Tgt Ion: 64 Resp: 214757

Ion Ratio Lower Upper

64 100

66 29.4 24.4 36.6



#8

Dichlorotetrafluoroethane

Concen: 9.010 ppbv

RT: 3.23 min Scan# 92

Delta R.T. 0.00 min

Lab File: VL032651.D

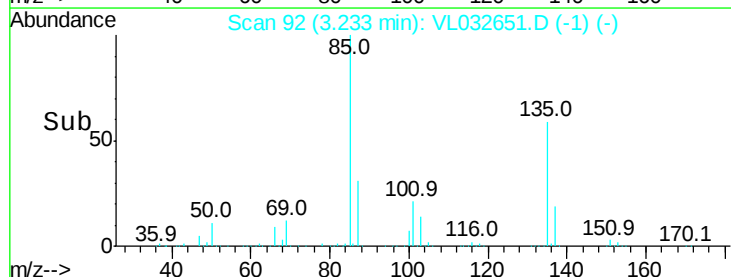
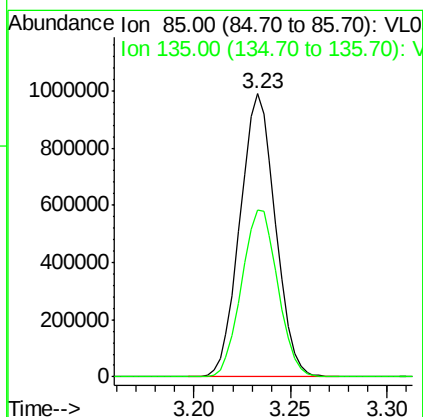
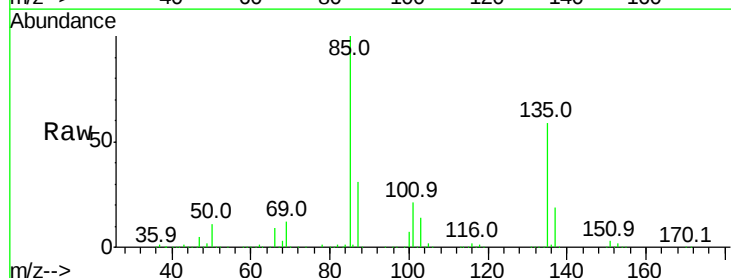
Acq: 17 Oct 2018 21:58

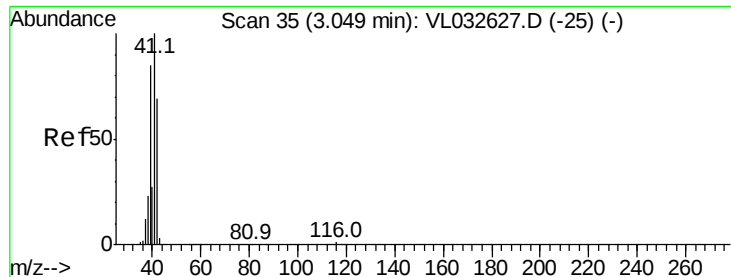
Tgt Ion: 85 Resp: 1257680

Ion Ratio Lower Upper

85 100

135 60.7 49.0 73.4





#9

Propene

Concen: 10.572 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

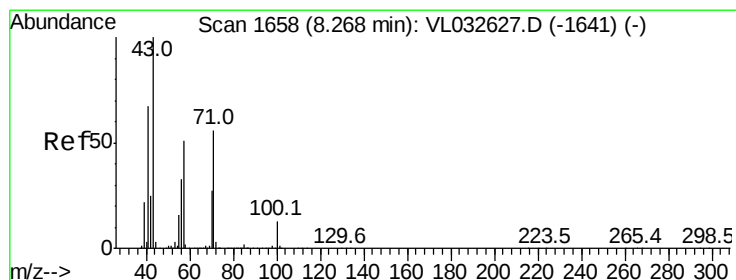
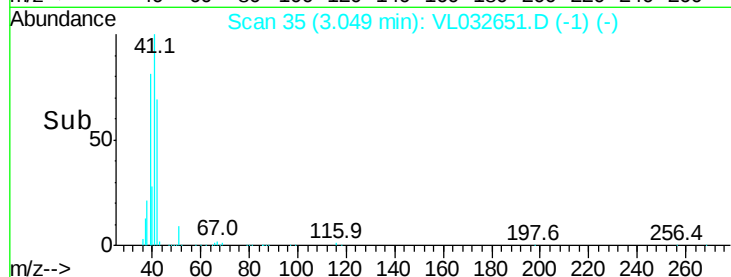
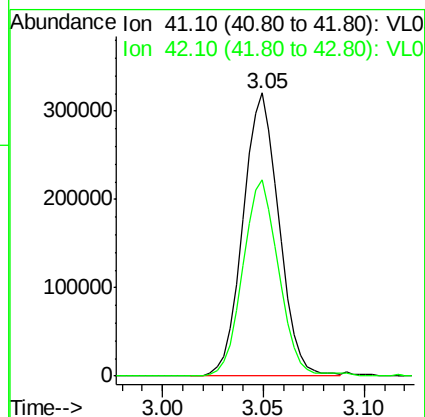
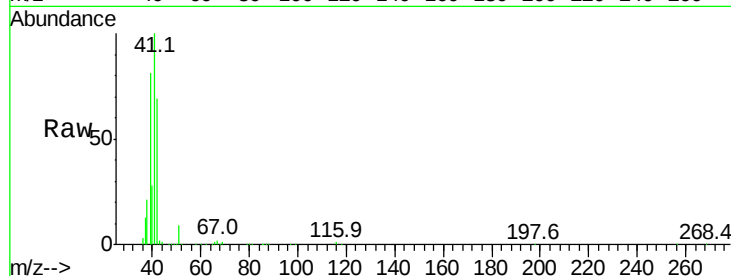
VSTDCCC010EC

Tgt Ion: 41 Resp: 401553

Ion Ratio Lower Upper

41 100

42 70.0 55.4 83.0



#10

Heptane

Concen: 11.178 ppbv

RT: 8.27 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL032651.D

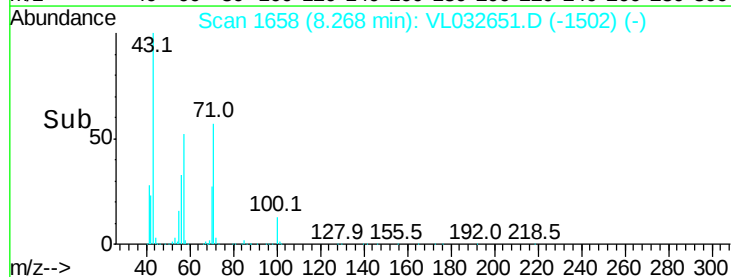
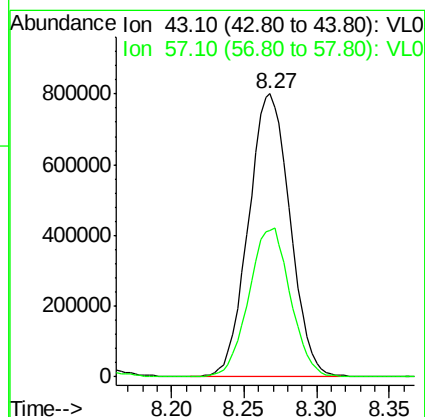
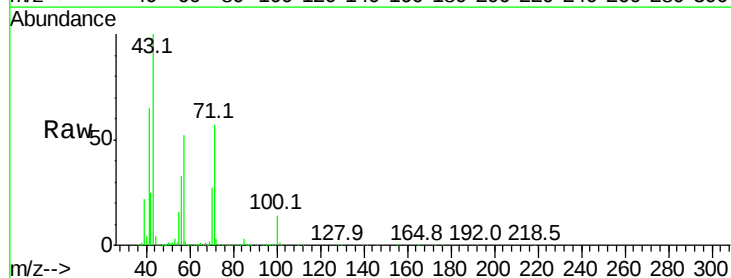
Acq: 17 Oct 2018 21:58

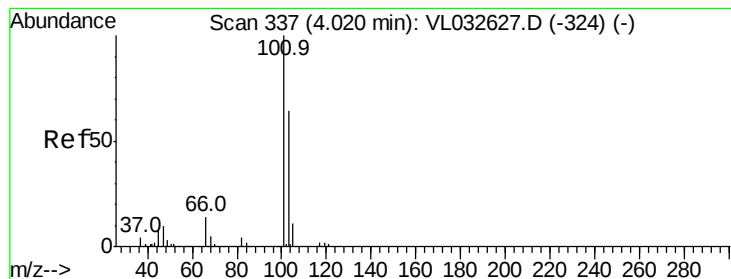
Tgt Ion: 43 Resp: 1589983

Ion Ratio Lower Upper

43 100

57 52.9 41.5 62.3





#11

Trichlorofluoromethane

Concen: 9.410 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

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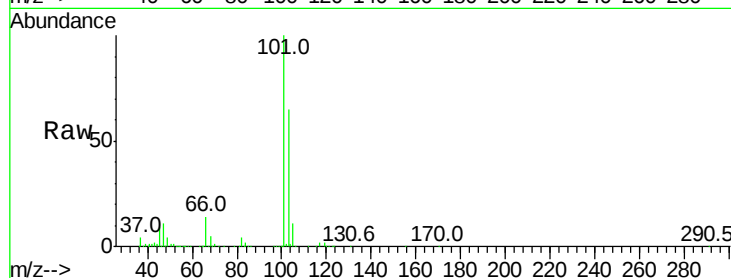
VSTDCCC010EC

Tgt Ion:101 Resp: 1496807

Ion Ratio Lower Upper

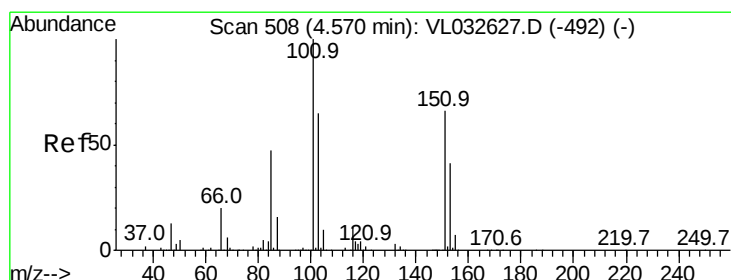
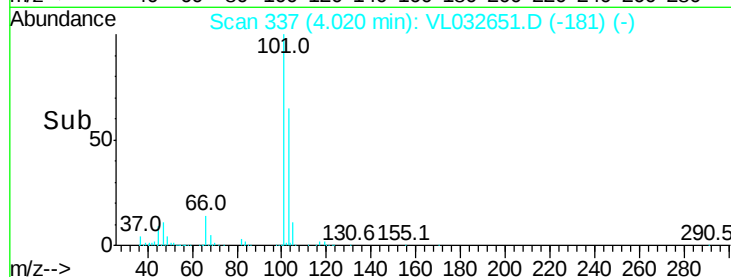
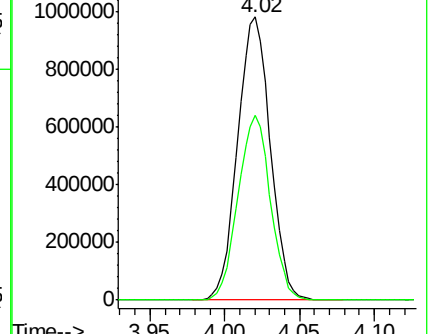
101 100

103 65.1 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: 9.218 ppbv

RT: 4.57 min Scan# 508

Delta R.T. 0.00 min

Lab File: VL032651.D

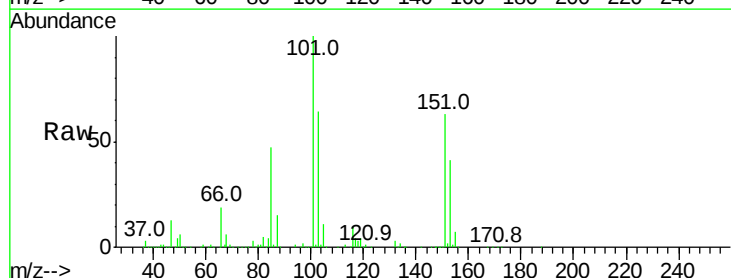
Acq: 17 Oct 2018 21:58

Tgt Ion:101 Resp: 1073618

Ion Ratio Lower Upper

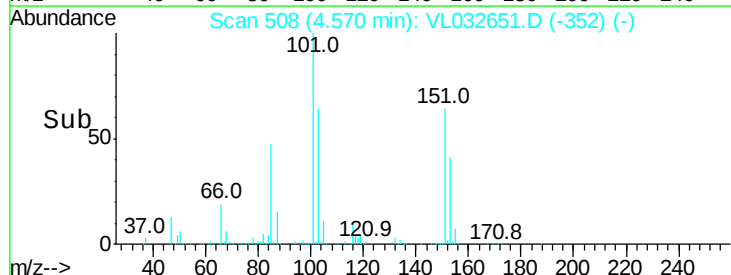
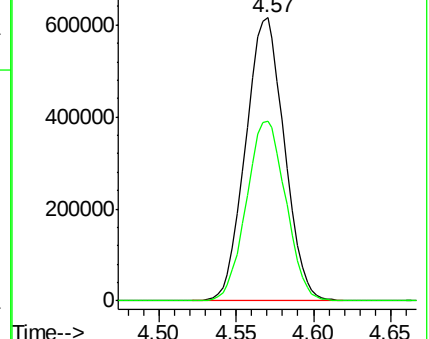
101 100

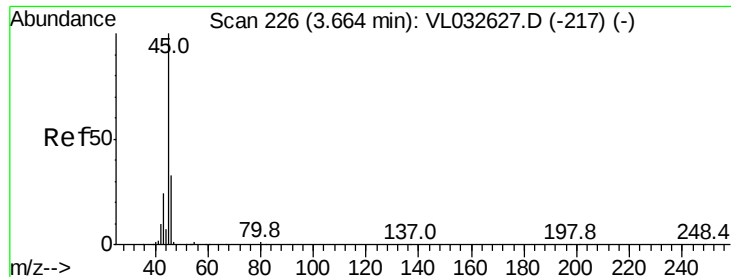
151 64.7 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.264 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

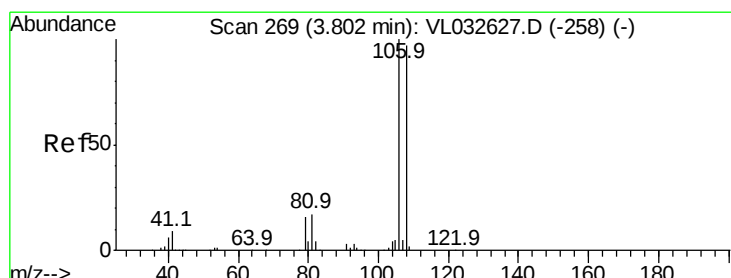
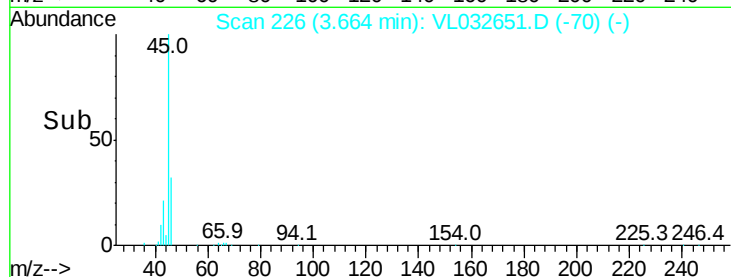
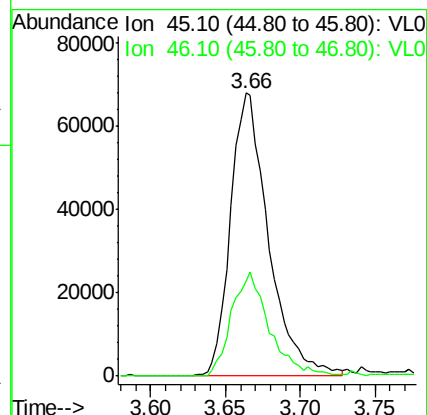
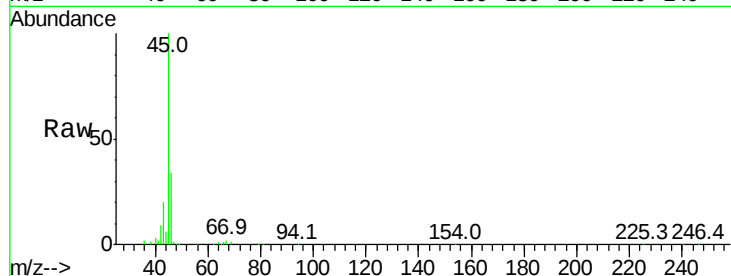
VSTDCCC010EC

Tgt Ion: 45 Resp: 120641

Ion Ratio Lower Upper

45 100

46 37.1 15.4 61.8



#14

Bromoethene

Concen: 10.791 ppbv

RT: 3.80 min Scan# 269

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

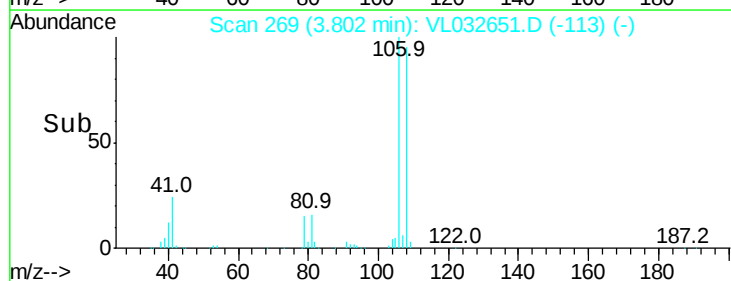
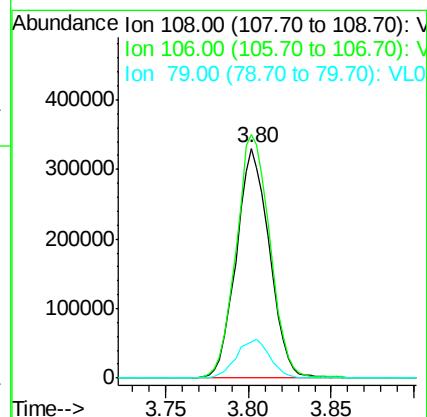
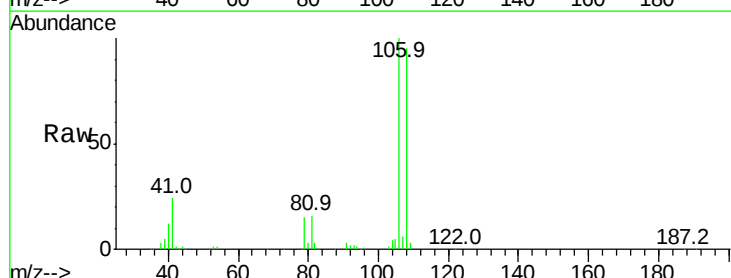
Tgt Ion: 108 Resp: 459843

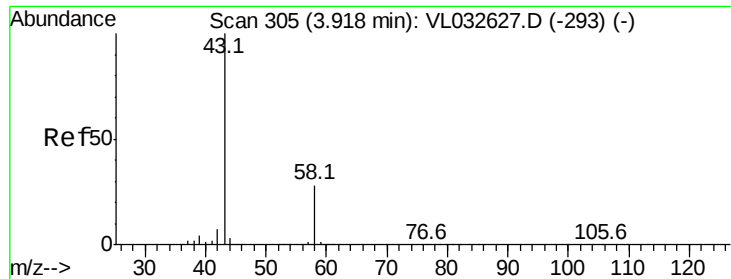
Ion Ratio Lower Upper

108 100

106 108.7 85.0 127.4

79 17.4 13.7 20.5





#15

Acetone

Concen: 9.991 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

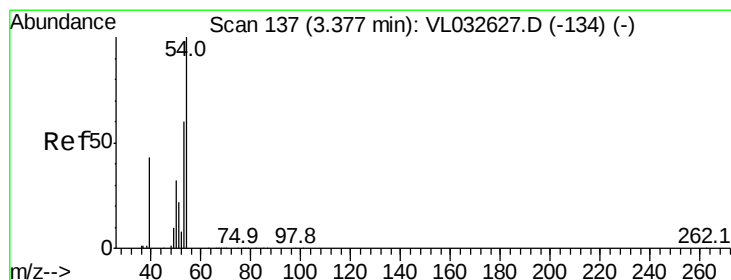
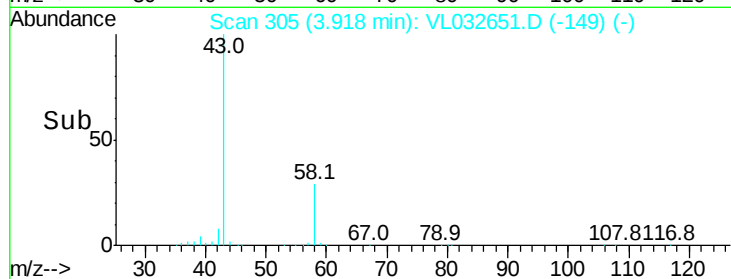
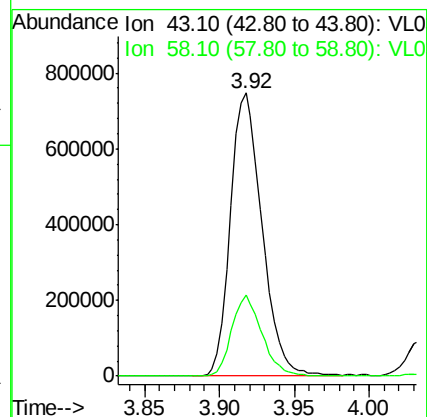
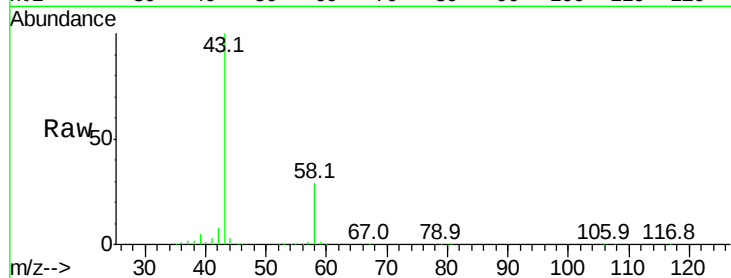
VSTDCCC010EC

Tgt Ion: 43 Resp: 1101032

Ion Ratio Lower Upper

43 100

58 27.6 22.1 33.1



#16

1,3-Butadiene

Concen: 10.999 ppbv

RT: 3.38 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL032651.D

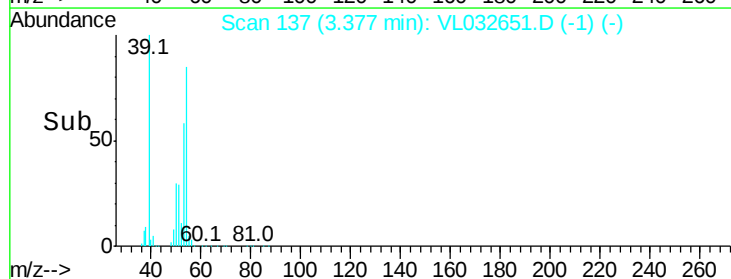
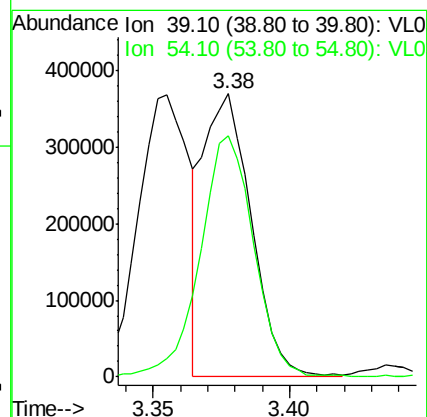
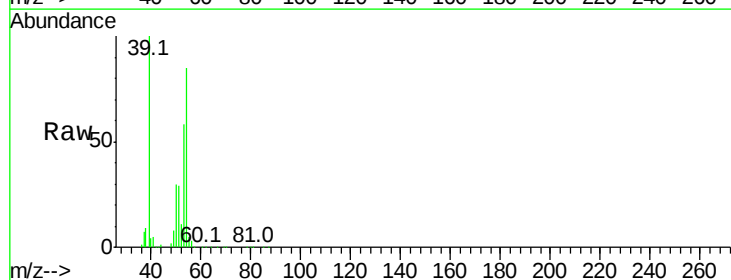
Acq: 17 Oct 2018 21:58

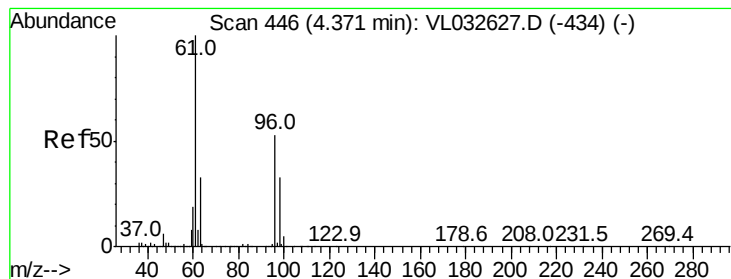
Tgt Ion: 39 Resp: 448808

Ion Ratio Lower Upper

39 100

54 96.7 90.4 135.6





#17

tert-Butyl alcohol

Concen: 11.515 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

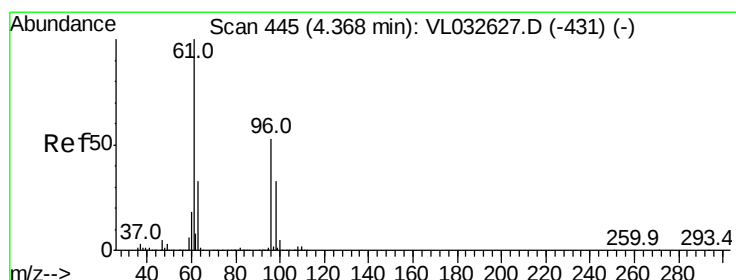
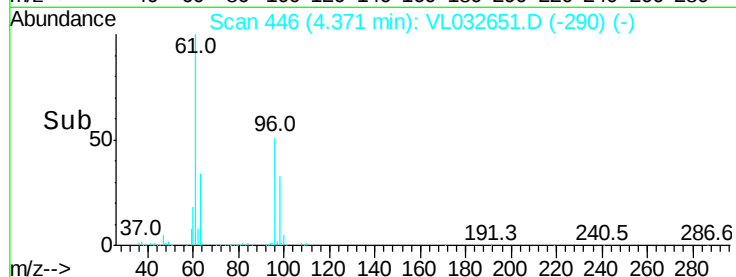
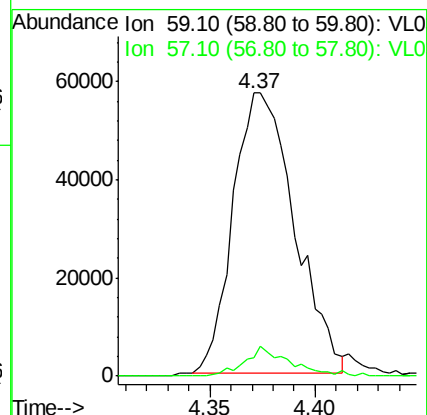
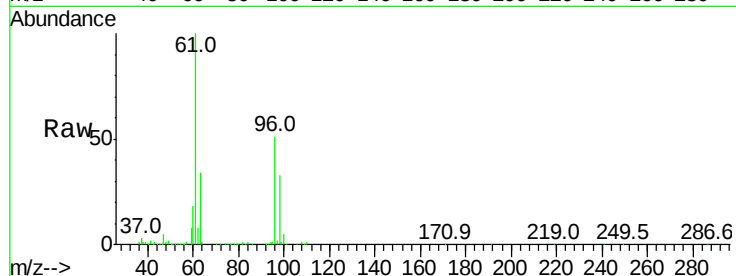
VSTDCCC010EC

Tgt Ion: 59 Resp: 115810

Ion Ratio Lower Upper

59 100

57 7.9 0.0 0.0#



#18

1,1-Dichloroethene

Concen: 11.420 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

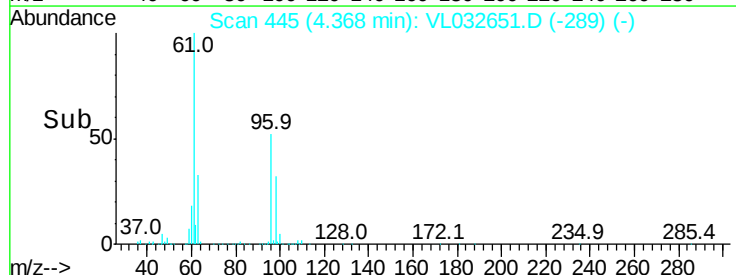
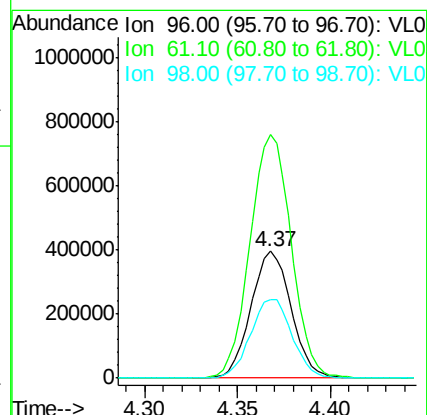
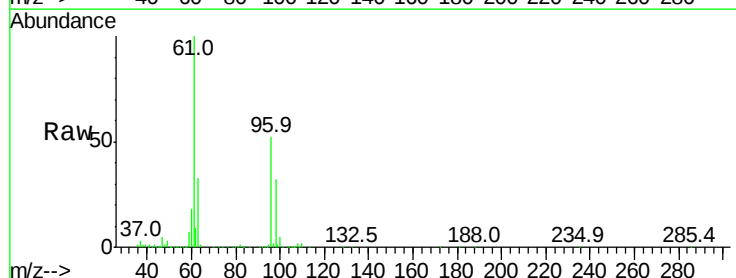
Tgt Ion: 96 Resp: 599836

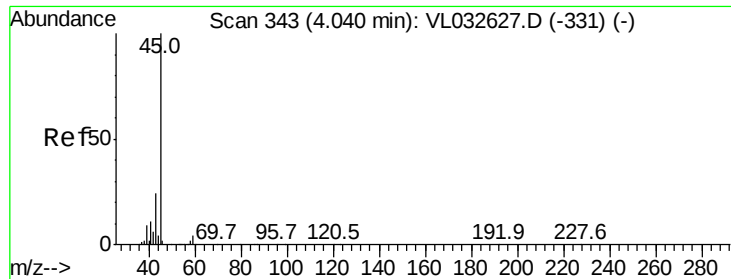
Ion Ratio Lower Upper

96 100

61 191.8 151.6 227.4

98 61.4 50.6 75.8





#19

Isopropyl Alcohol

Concen: 10.762 ppbv

RT: 4.04 min Scan# 342

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

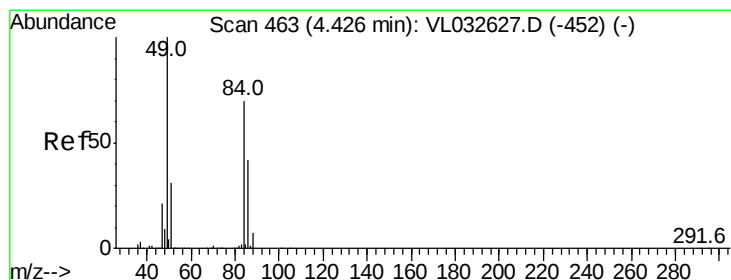
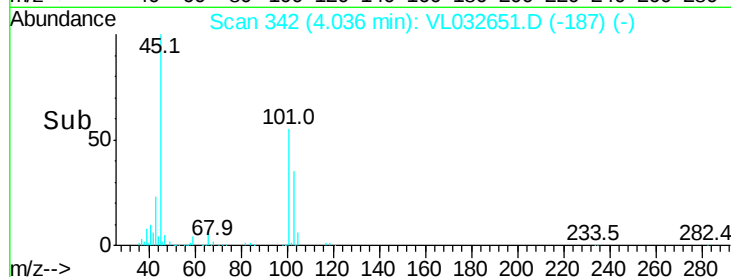
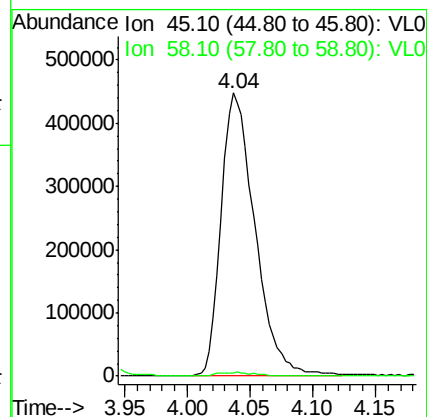
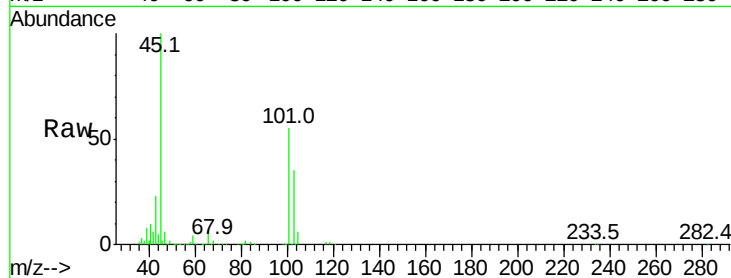
VSTDCCC010EC

Tgt Ion: 45 Resp: 837522

Ion Ratio Lower Upper

45 100

58 1.6 2.0 3.0#



#20

Methylene Chloride

Concen: 10.579 ppbv

RT: 4.43 min Scan# 463

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Tgt Ion: 84 Resp: 522215

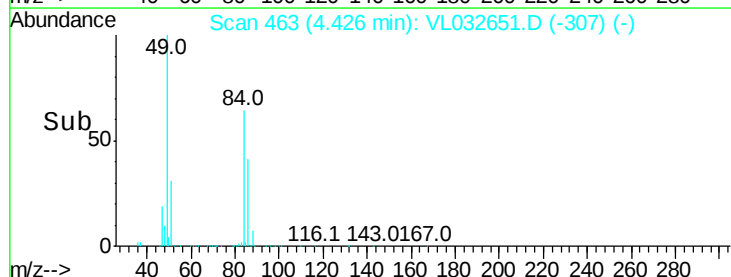
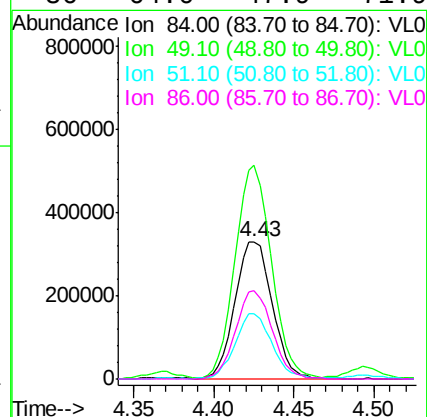
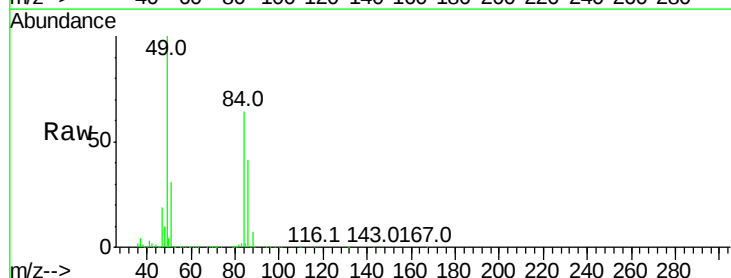
Ion Ratio Lower Upper

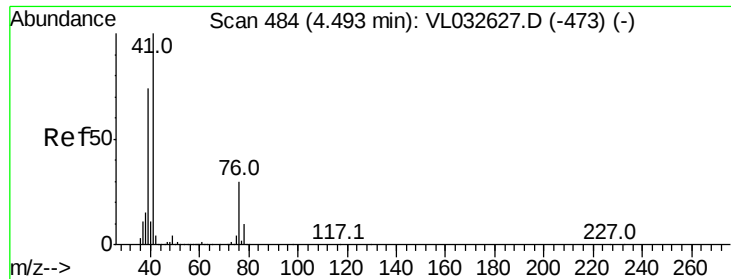
84 100

49 154.3 113.5 170.3

51 47.0 34.8 52.2

86 64.0 47.9 71.9





#21

Allyl Chloride

Concen: 10.527 ppbv

RT: 4.49 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

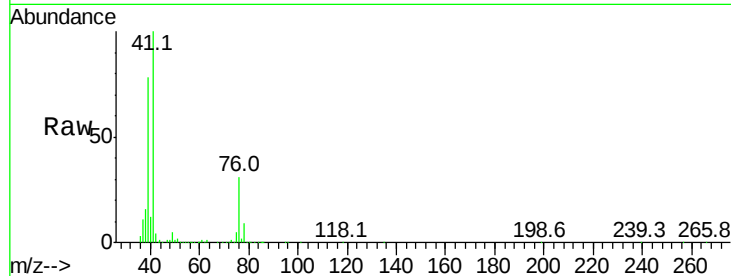
Tgt Ion: 41 Resp: 870620

Ion Ratio Lower Upper

41 100

76 30.6 24.3 36.5

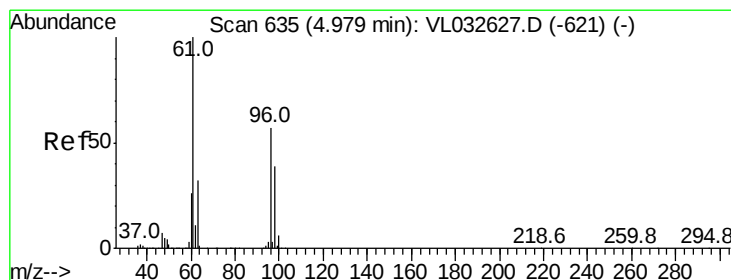
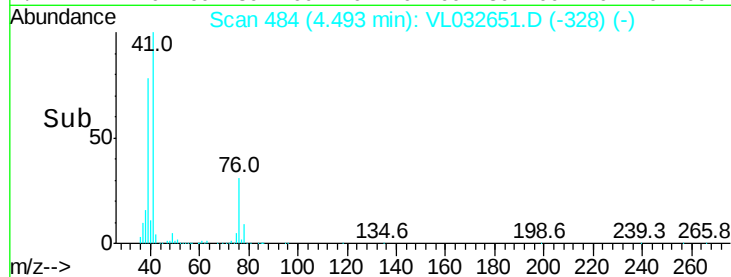
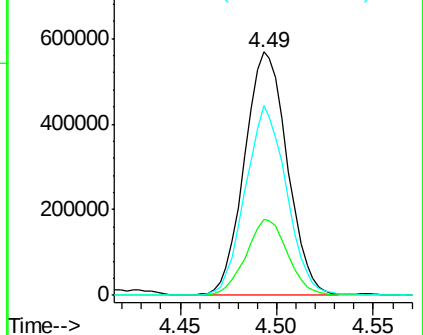
39 76.0 60.3 90.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.707 ppbv

RT: 4.98 min Scan# 636

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

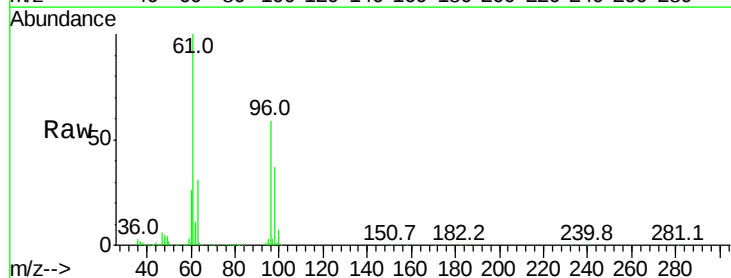
Tgt Ion: 96 Resp: 588982

Ion Ratio Lower Upper

96 100

61 168.5 140.4 210.6

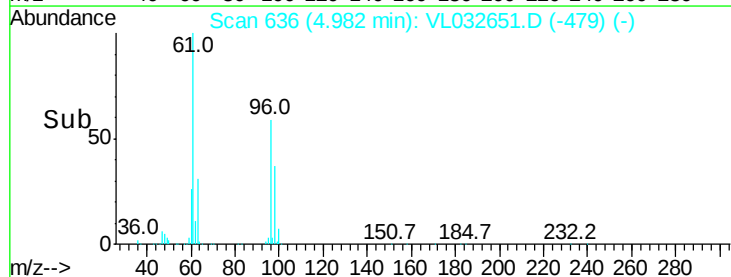
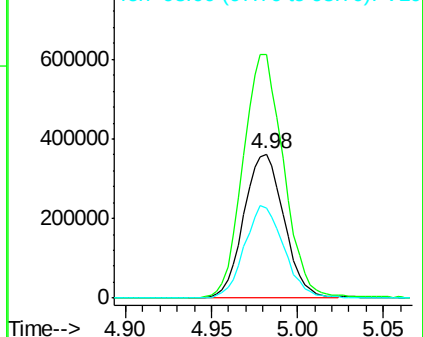
98 62.3 55.0 82.6

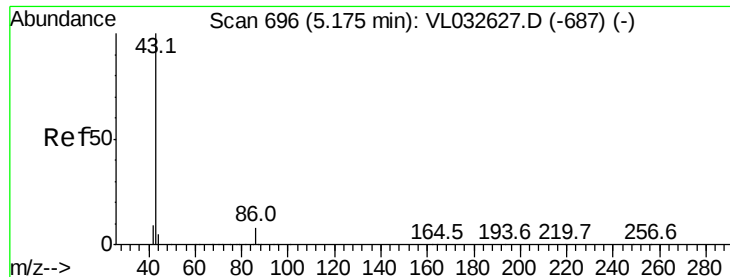


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.594 ppbv

RT: 5.17 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2032510

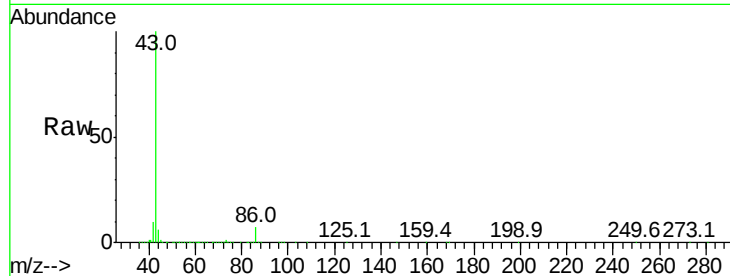
Ion Ratio Lower Upper

43 100

86 7.4 6.1 9.1

42 9.8 7.4 11.2

44 5.4 4.2 6.2

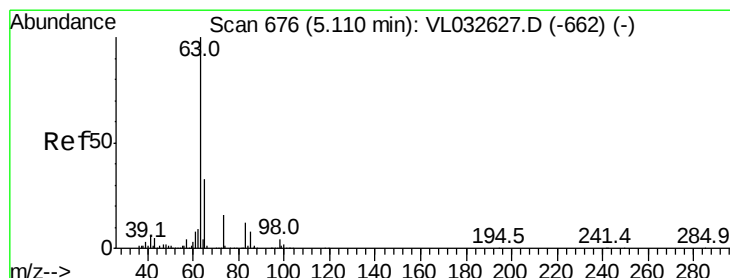
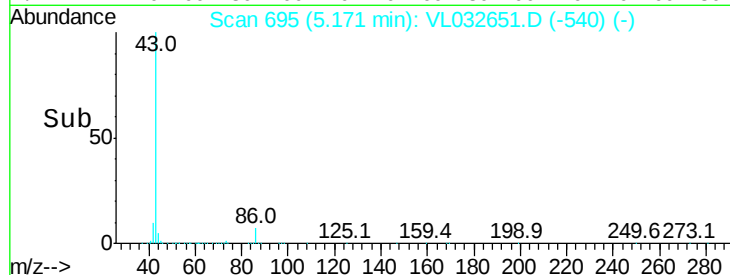
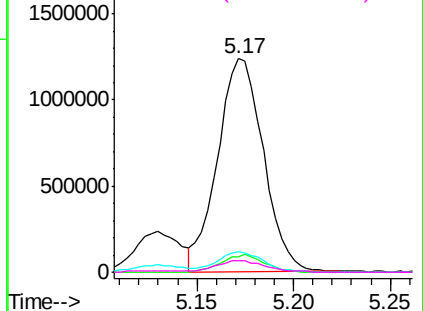


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.954 ppbv

RT: 5.11 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

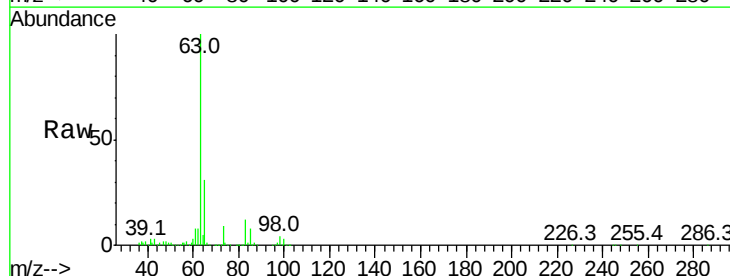
Tgt Ion: 63 Resp: 1617766

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.3

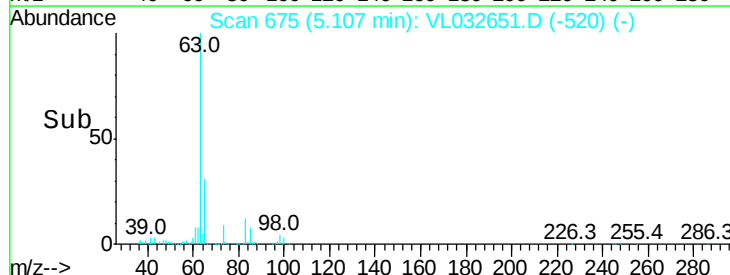
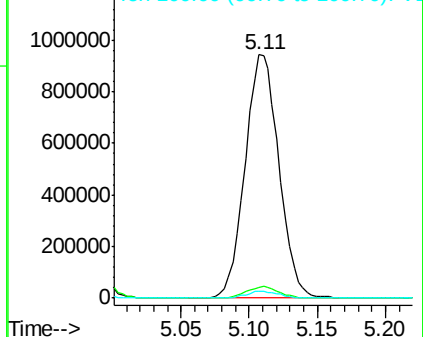
100 2.6 1.2 3.6

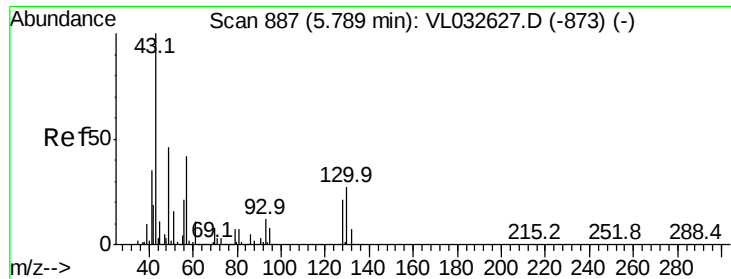


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.473 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2730806

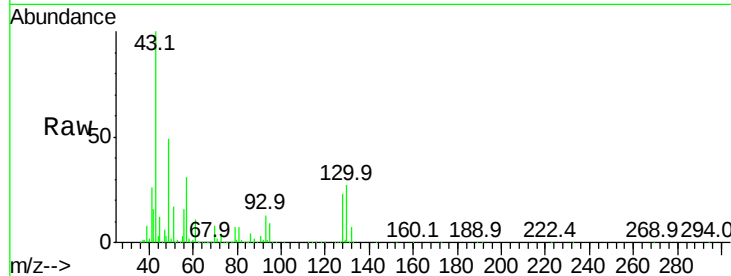
Ion Ratio Lower Upper

43 100

45 10.2 8.0 12.0

61 10.1 8.0 12.0

70 7.3 5.9 8.9



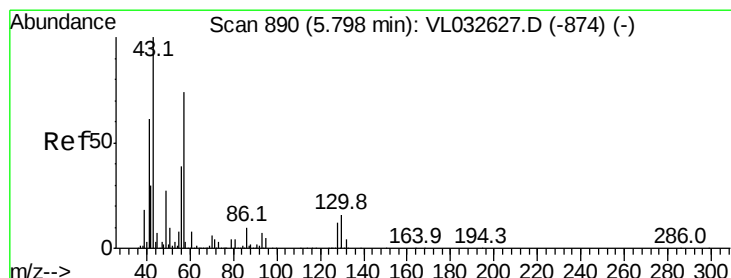
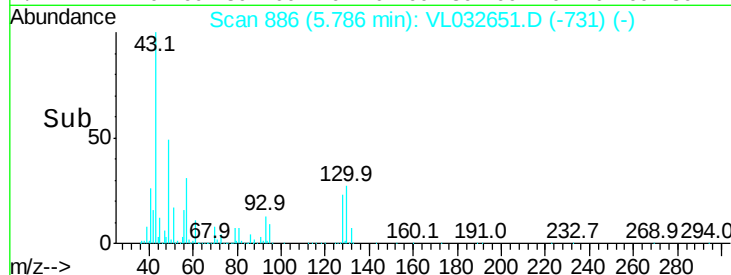
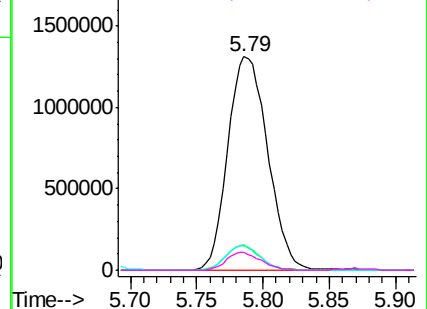
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.807 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Tgt Ion: 57 Resp: 1269300

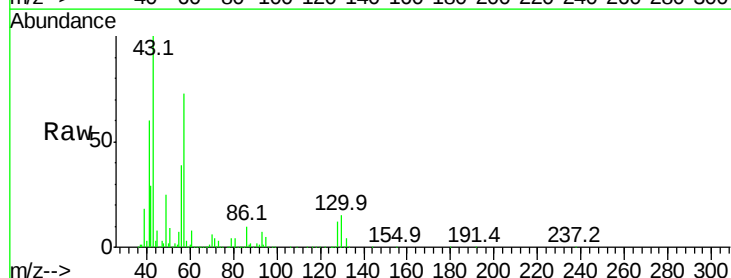
Ion Ratio Lower Upper

57 100

41 84.4 67.4 101.0

43 216.9 171.9 257.9

56 53.5 42.6 63.8



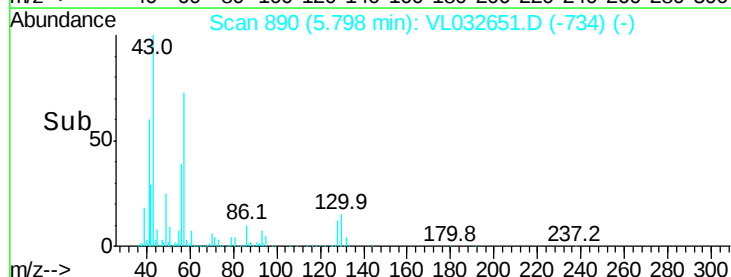
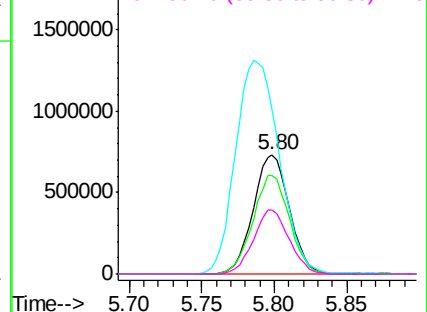
Abundance

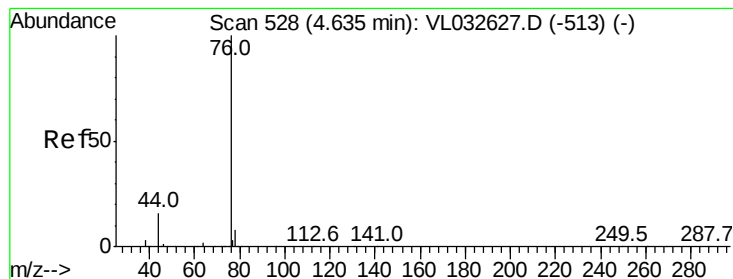
Ion 57.10 (56.80 to 57.80): VL0

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: 10.046 ppbv

RT: 4.64 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

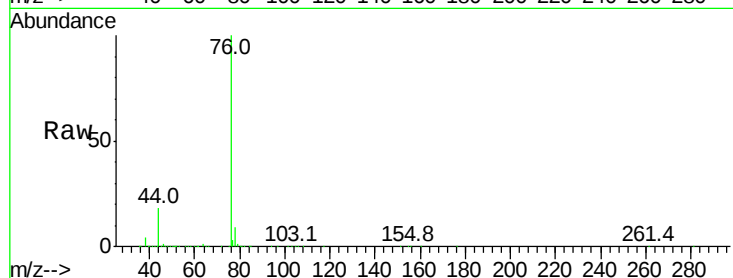
Tgt Ion: 76 Resp: 1425837

Ion Ratio Lower Upper

76 100

44 17.8 13.7 20.5

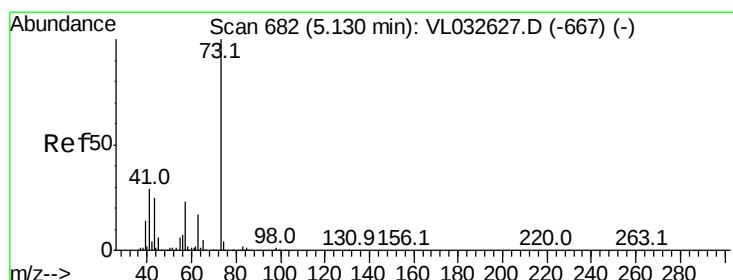
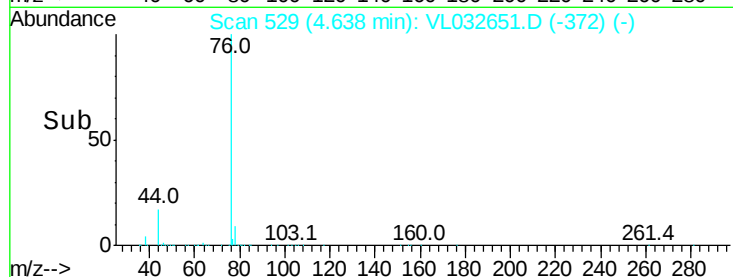
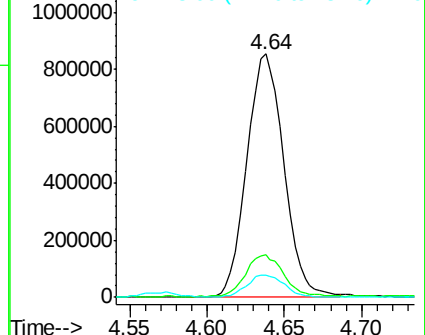
78 9.4 7.4 11.2



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: 11.356 ppbv

RT: 5.13 min Scan# 682

Delta R.T. -0.00 min

Lab File: VL032651.D

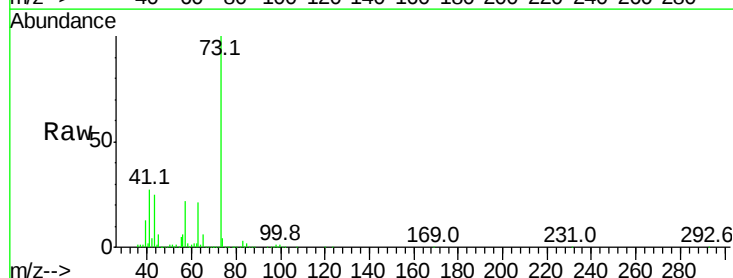
Acq: 17 Oct 2018 21:58

Tgt Ion: 73 Resp: 1676153

Ion Ratio Lower Upper

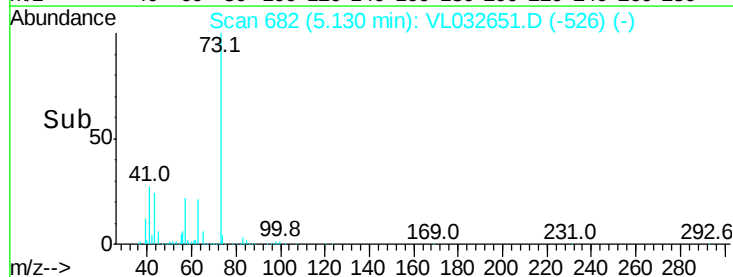
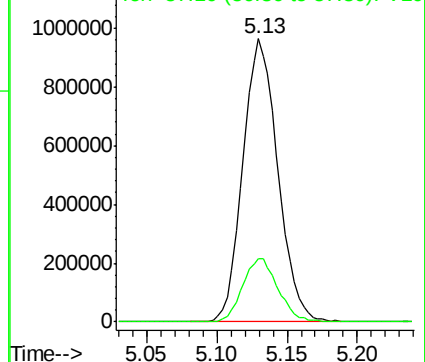
73 100

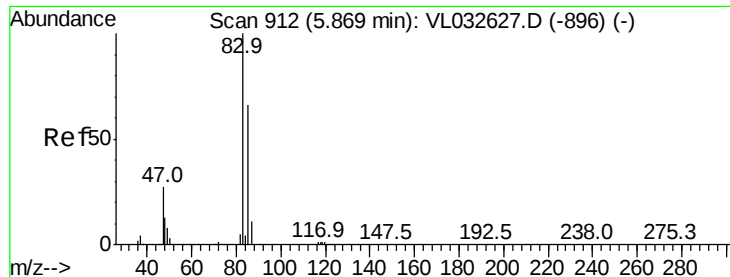
57 22.7 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.687 ppbv

RT: 5.87 min Scan# 912

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

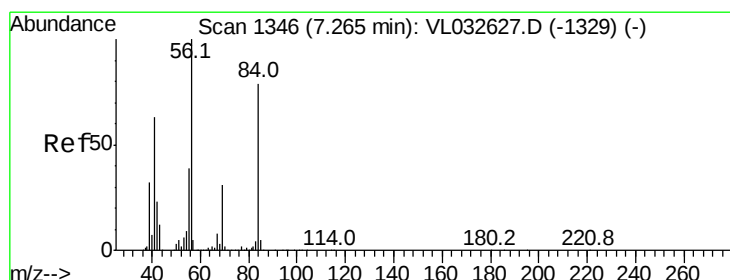
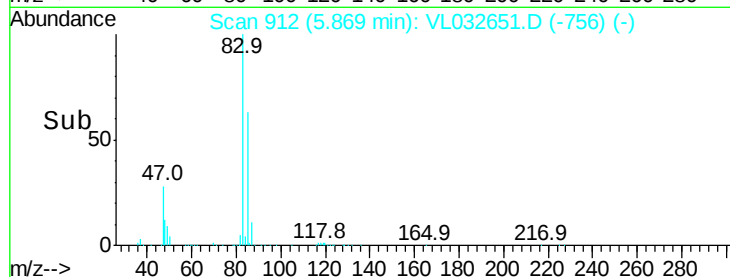
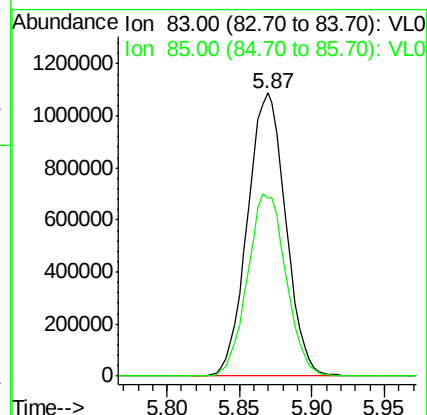
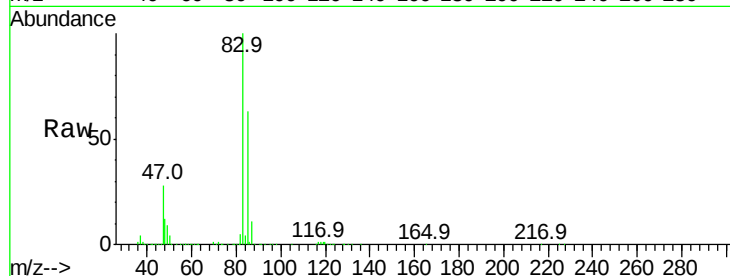
VSTDCCC010EC

Tgt Ion: 83 Resp: 1994019

Ion Ratio Lower Upper

83 100

85 62.9 53.0 79.6



#30

Cyclohexane

Concen: 11.172 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

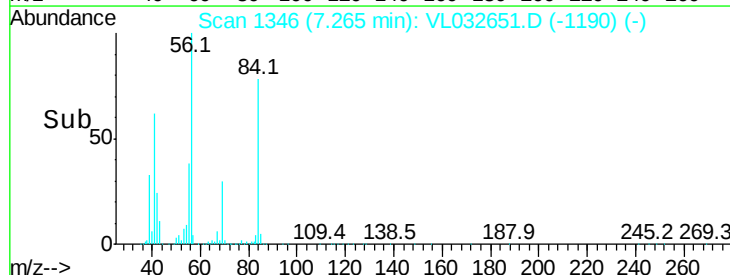
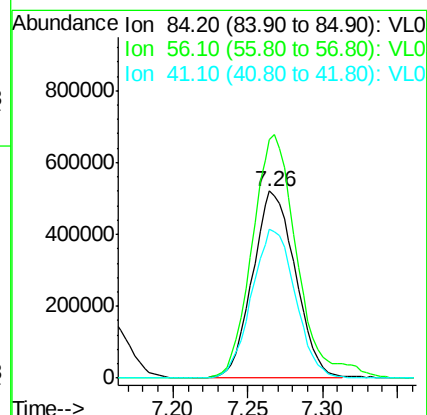
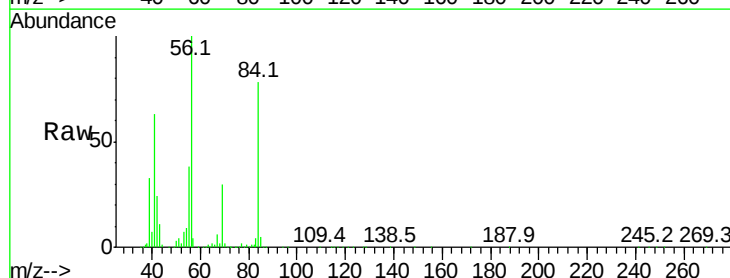
Tgt Ion: 84 Resp: 1034767

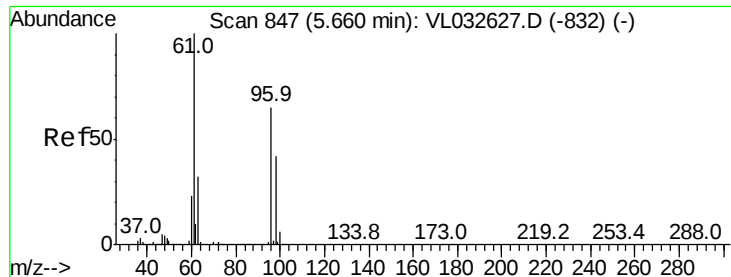
Ion Ratio Lower Upper

84 100

56 136.9 108.3 162.5

41 81.3 64.8 97.2



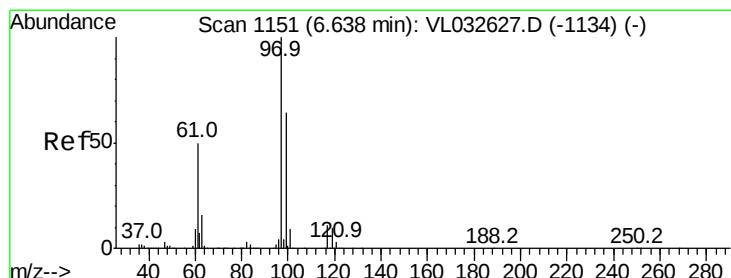
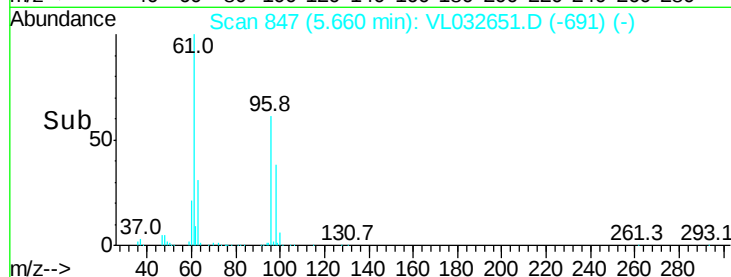
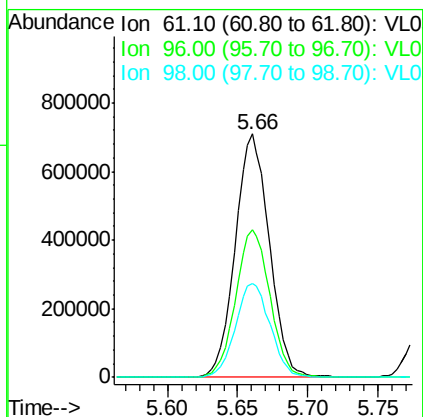
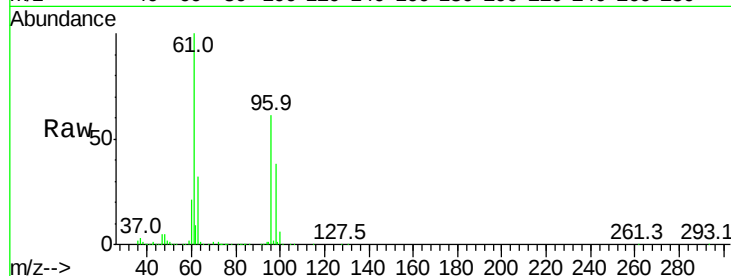


#31

cis-1,2-Dichloroethene
 Concen: 10.674 ppbv
 RT: 5.66 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

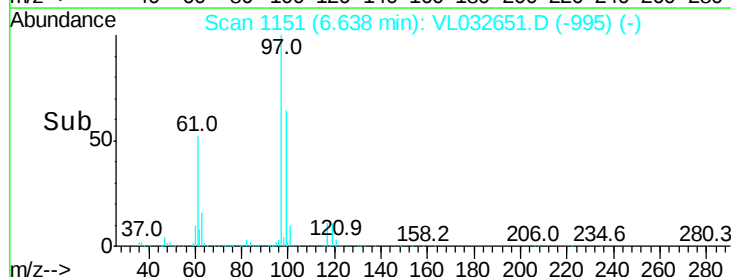
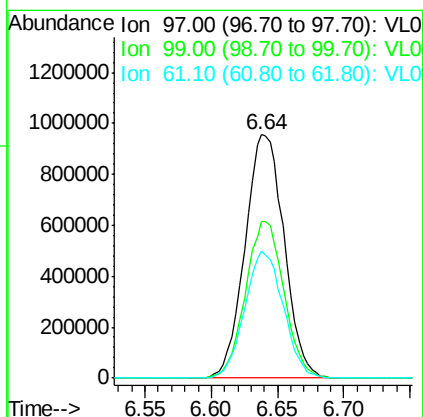
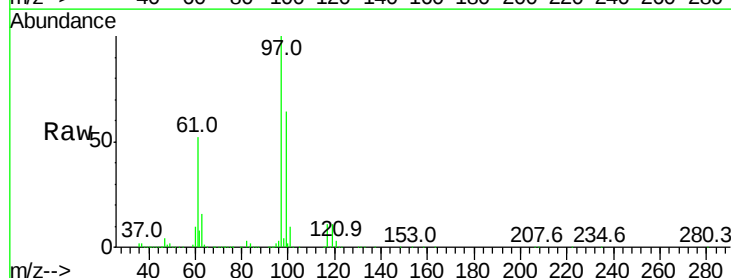
Tgt Ion: 61 Resp: 1204357
 Ion Ratio Lower Upper
 61 100
 96 60.5 51.8 77.6
 98 38.4 33.8 50.6

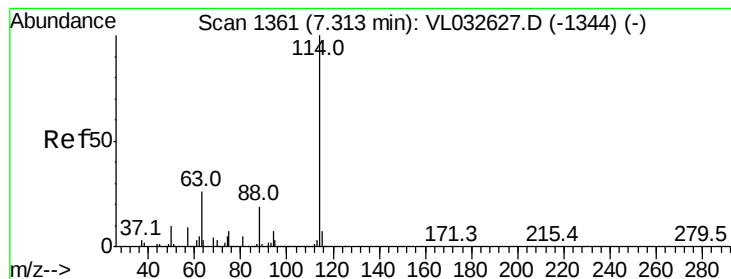


#32

1,1,1-Trichloroethane
 Concen: 9.554 ppbv
 RT: 6.64 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

Tgt Ion: 97 Resp: 1962021
 Ion Ratio Lower Upper
 97 100
 99 63.5 52.0 78.0
 61 51.6 40.7 61.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.31 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

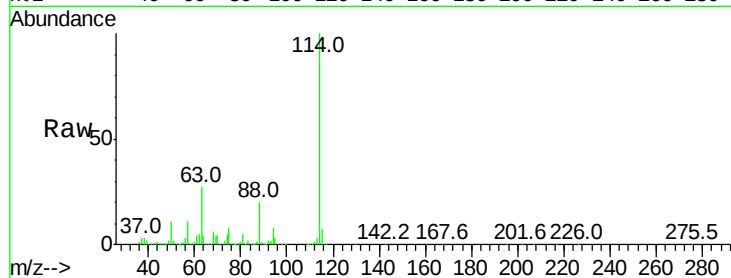
Tgt Ion:114 Resp: 2699777

Ion Ratio Lower Upper

114 100

63 27.4 21.7 32.5

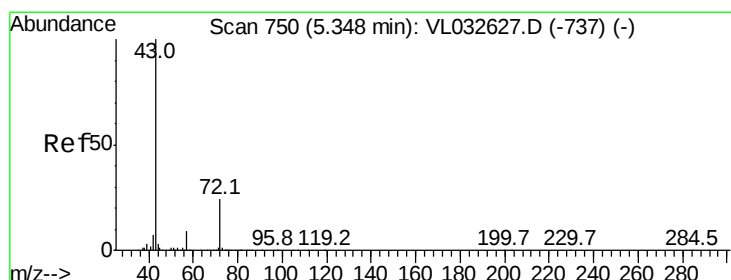
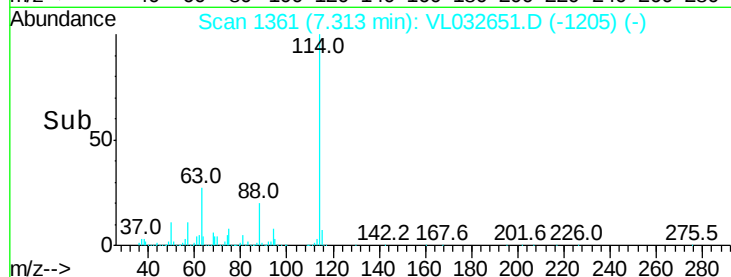
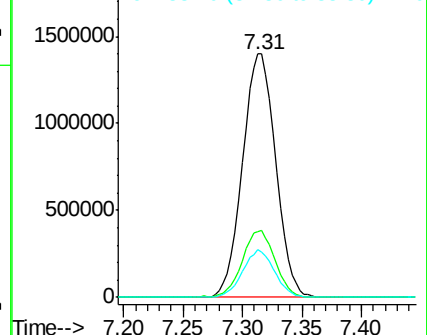
88 18.6 14.9 22.3



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 11.864 ppbv

RT: 5.35 min Scan# 749

Delta R.T. -0.00 min

Lab File: VL032651.D

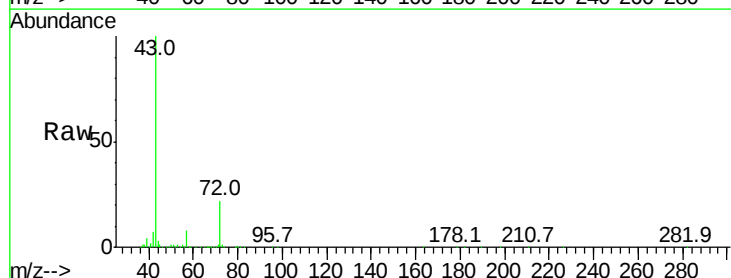
Acq: 17 Oct 2018 21:58

Tgt Ion: 43 Resp: 1777794

Ion Ratio Lower Upper

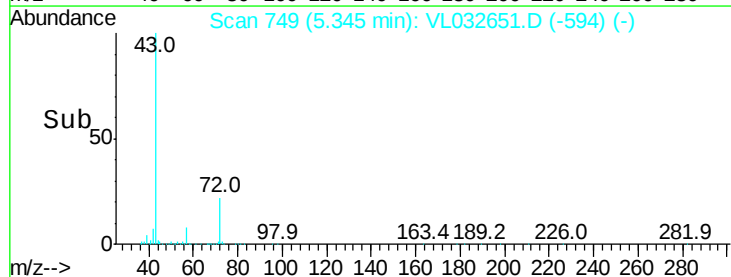
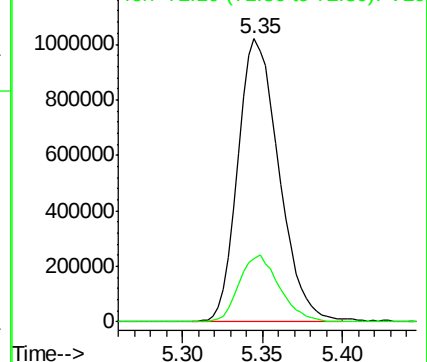
43 100

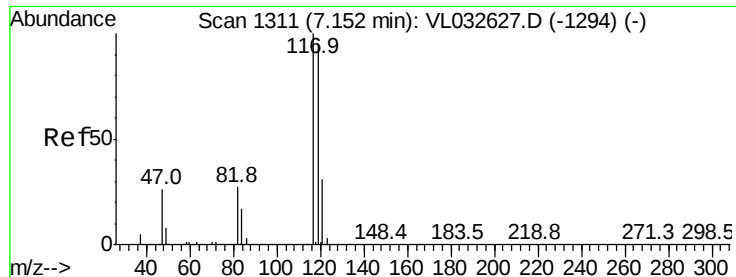
72 23.2 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.595 ppbv

RT: 7.16 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

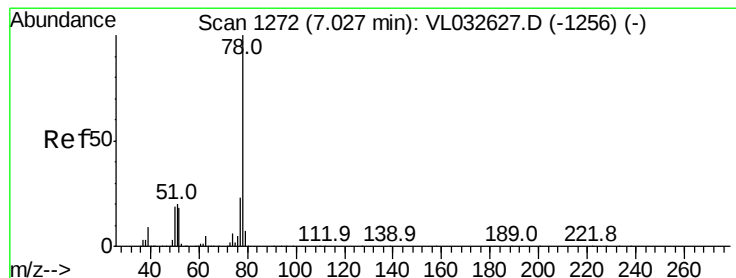
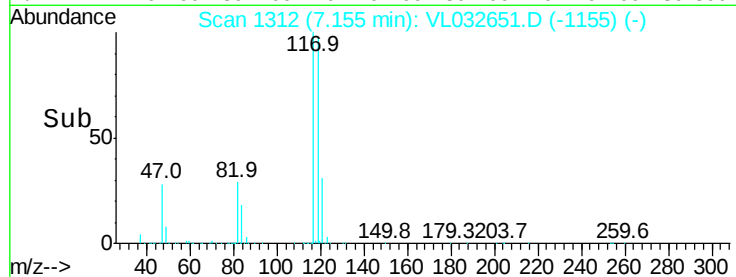
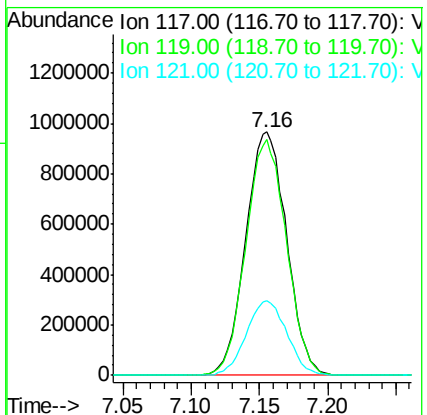
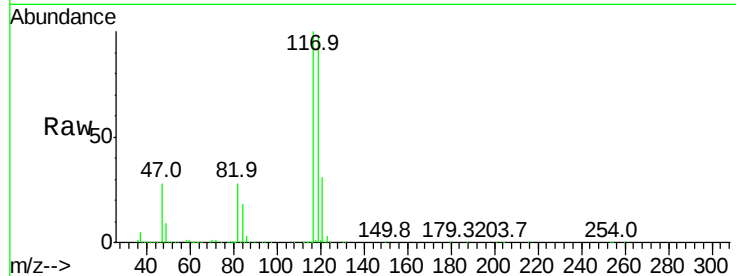
Tgt Ion:117 Resp: 2007513

Ion Ratio Lower Upper

117 100

119 96.9 75.7 113.5

121 30.5 24.7 37.1



#36

Benzene

Concen: 11.608 ppbv

RT: 7.03 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

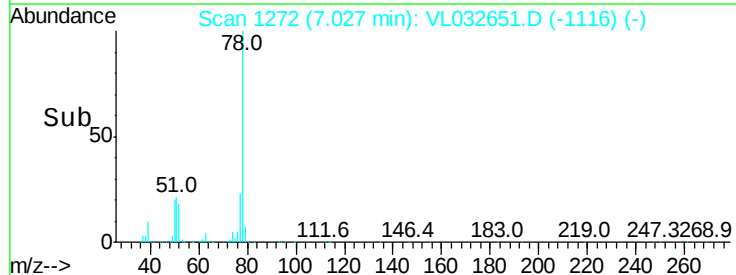
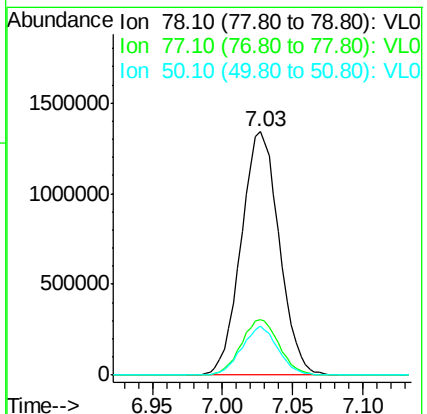
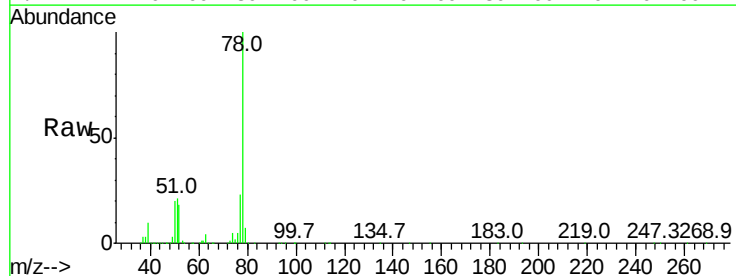
Tgt Ion: 78 Resp: 2540222

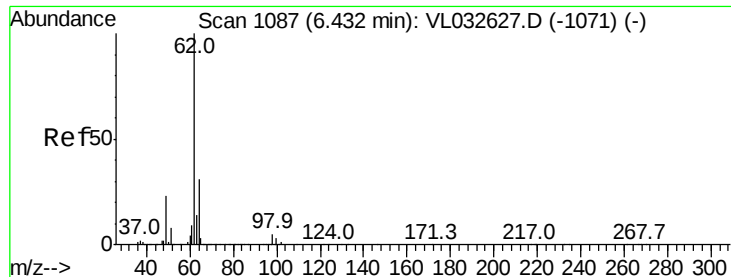
Ion Ratio Lower Upper

78 100

77 22.7 18.1 27.1

50 19.9 15.1 22.7

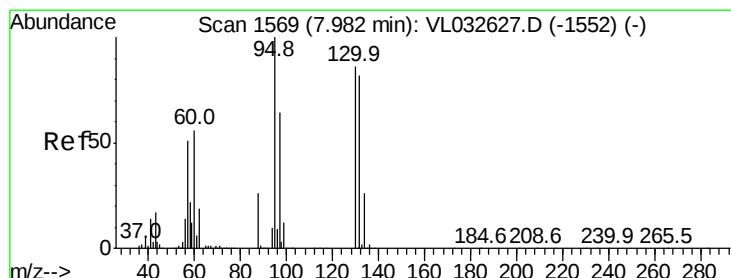
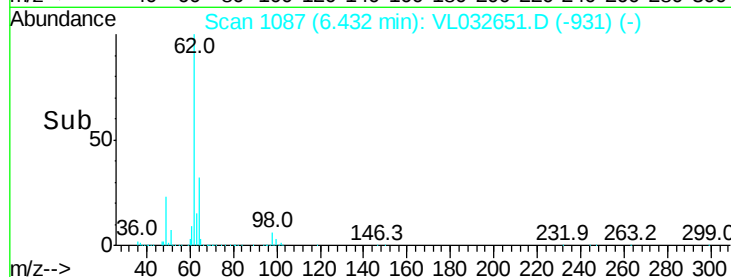
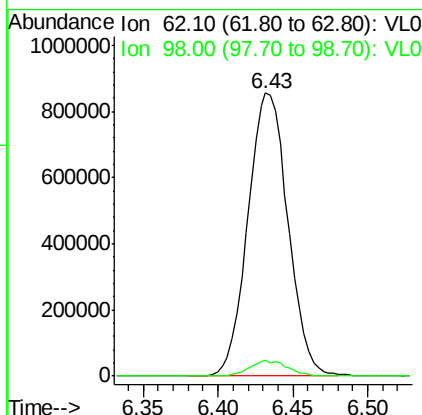
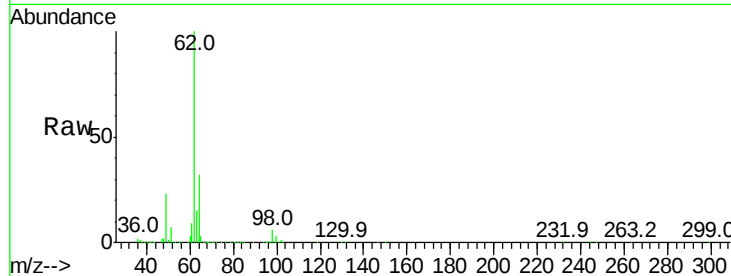




#37
 1,2-Dichloroethane
 Concen: 10.618 ppbv
 RT: 6.43 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

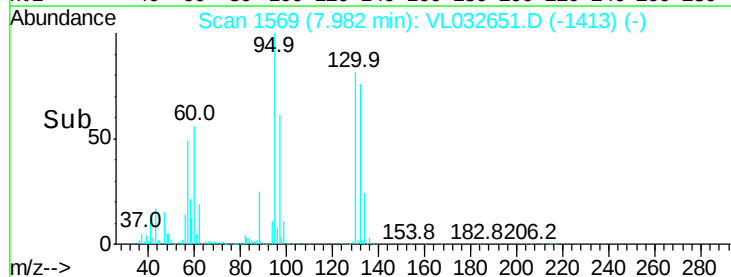
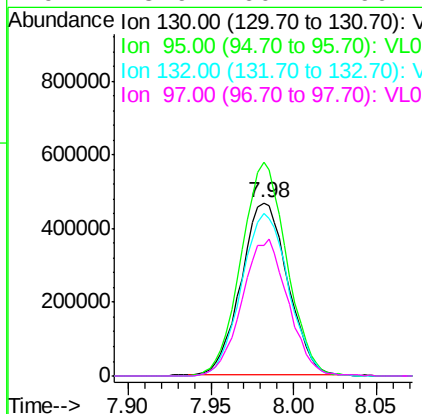
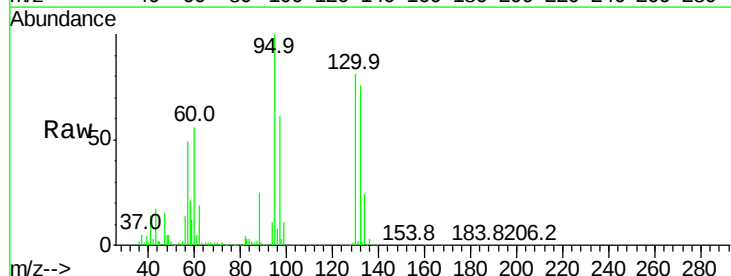
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

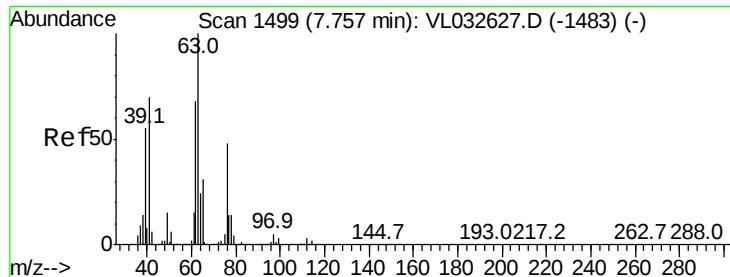
Tgt Ion: 62 Resp: 1593585
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6



#38
 Trichloroethene
 Concen: 11.127 ppbv
 RT: 7.98 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

Tgt Ion: 130 Resp: 915539
 Ion Ratio Lower Upper
 130 100
 95 123.9 93.4 140.0
 132 94.0 76.5 114.7
 97 75.9 60.2 90.2





#39

1,2-Dichloropropane

Concen: 11.443 ppbv

RT: 7.76 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

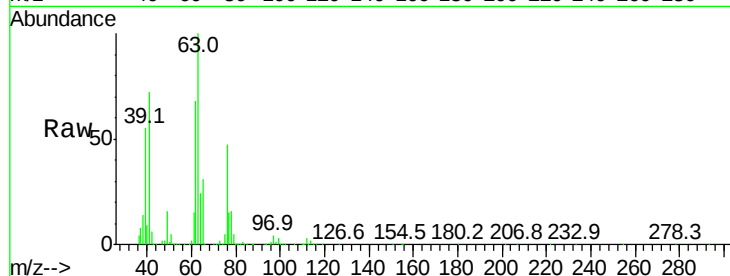
Tgt Ion: 63 Resp: 1018645

Ion Ratio Lower Upper

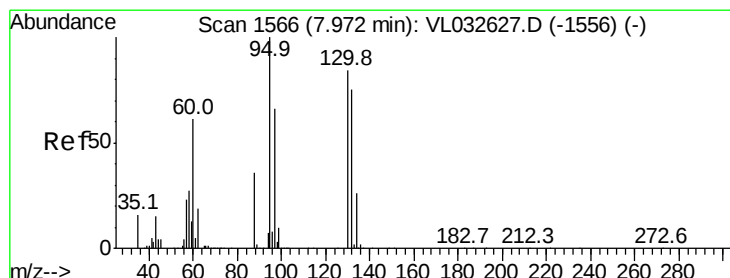
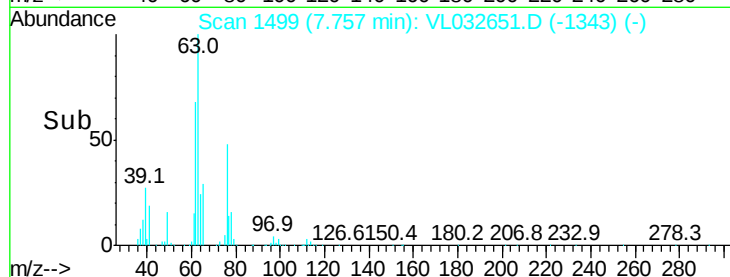
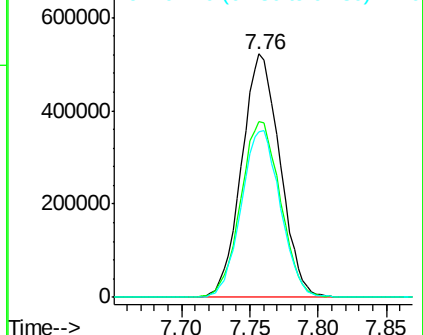
63 100

41 72.0 56.2 84.4

62 67.8 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: 12.358 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Tgt Ion: 88 Resp: 380086

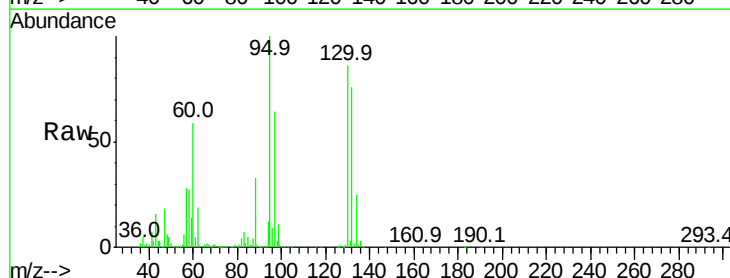
Ion Ratio Lower Upper

88 100

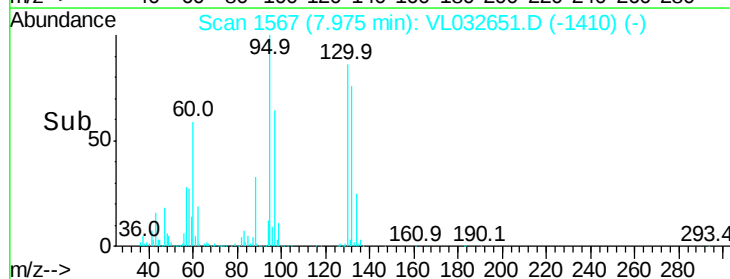
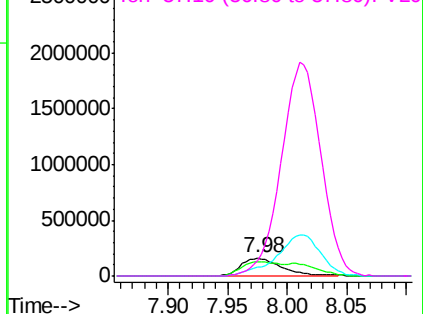
58 131.2 104.0 156.0

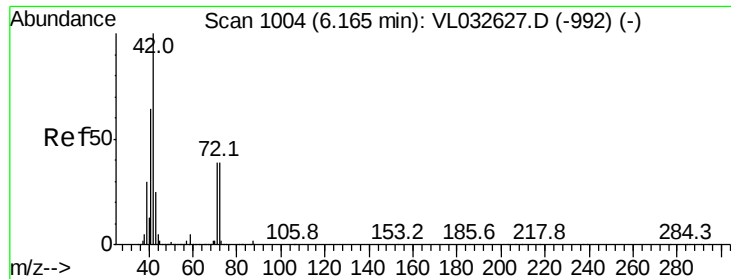
43 251.0 0.0 0.0#

57 1172.0 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

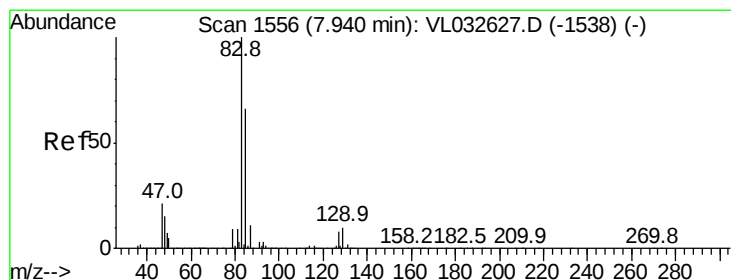
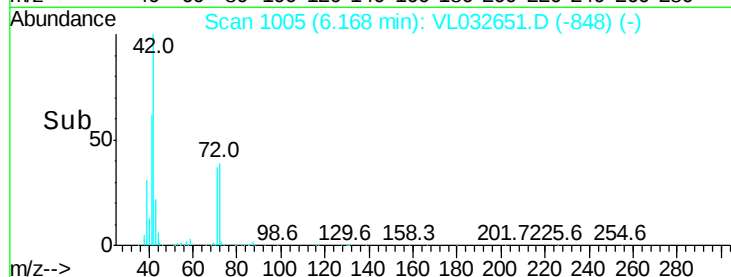
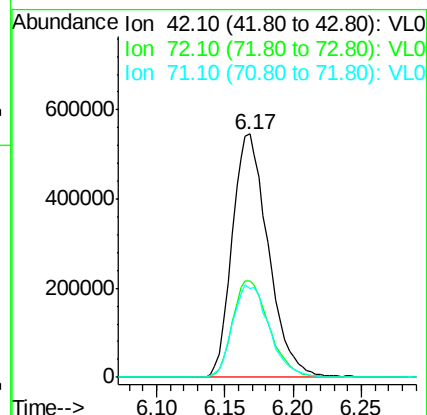
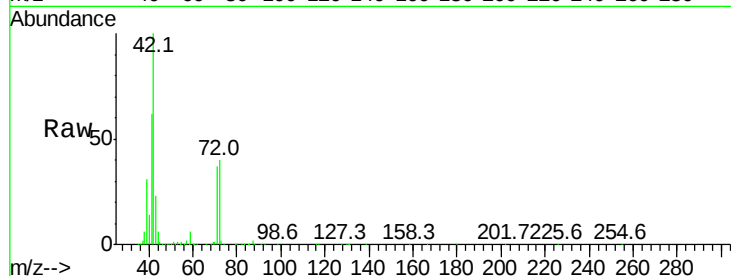




#41
Tetrahydrofuran
Concen: 12.577 ppbv
RT: 6.17 min Scan# 1005
Delta R.T. 0.00 min
Lab File: VL032651.D
Acq: 17 Oct 2018 21:58

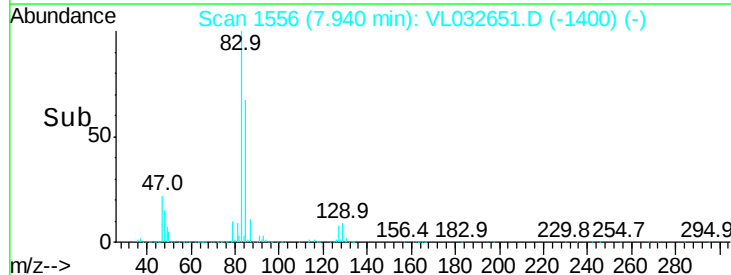
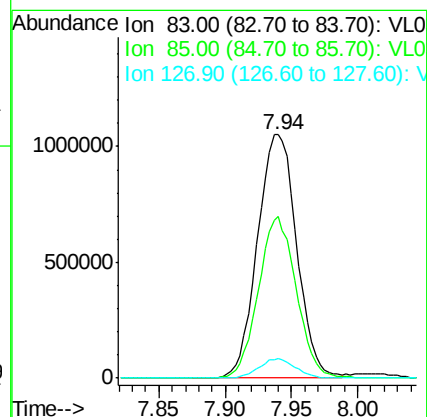
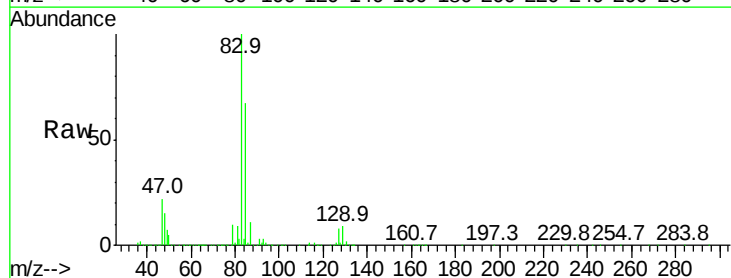
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

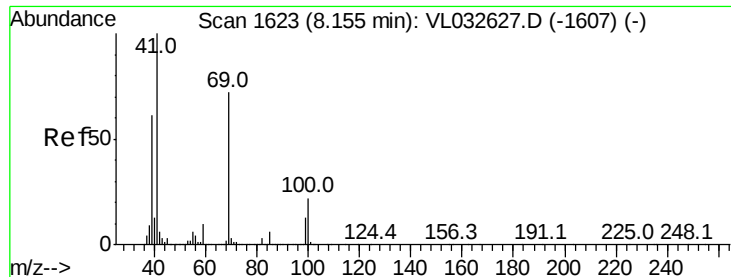
Tgt Ion: 42 Resp: 999895
Ion Ratio Lower Upper
42 100
72 40.7 32.4 48.6
71 39.1 31.3 46.9



#42
Bromodichloromethane
Concen: 10.610 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL032651.D
Acq: 17 Oct 2018 21:58

Tgt Ion: 83 Resp: 2170766
Ion Ratio Lower Upper
83 100
85 66.7 52.4 78.6
127 8.0 6.1 9.1

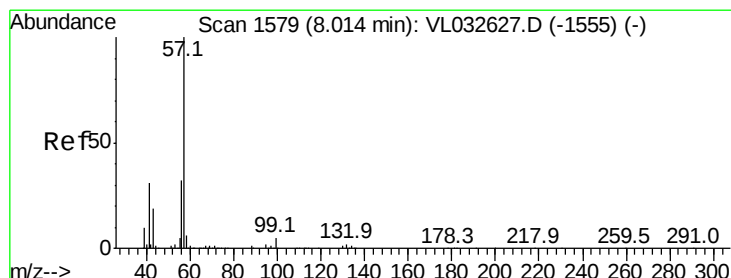
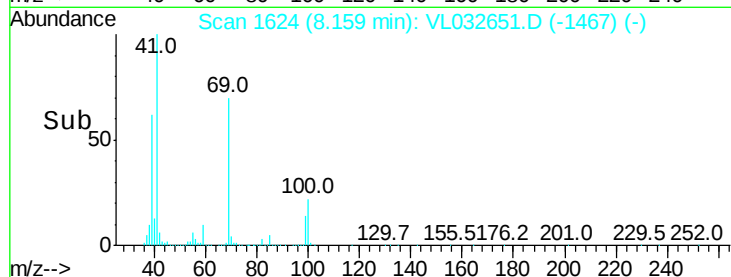
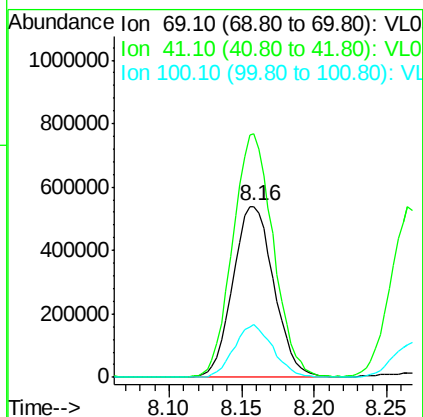
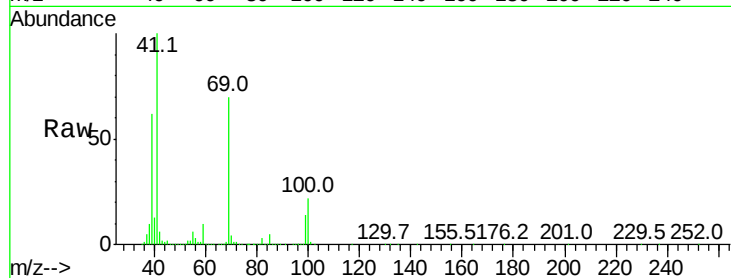




#43
Methyl Methacrylate
Concen: 12.473 ppbv
RT: 8.16 min Scan# 1624
Delta R.T. 0.00 min
Lab File: VL032651.D
Acq: 17 Oct 2018 21:58

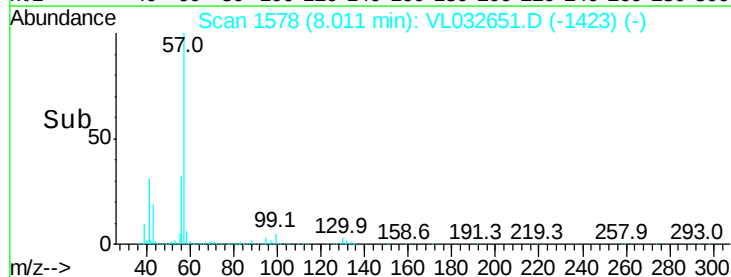
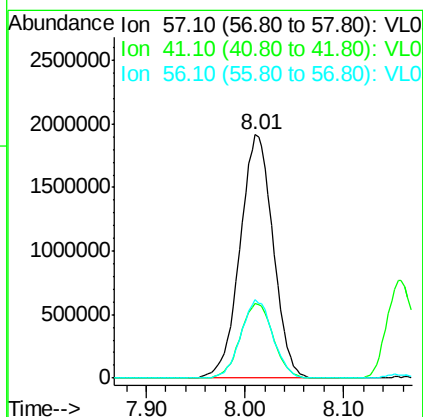
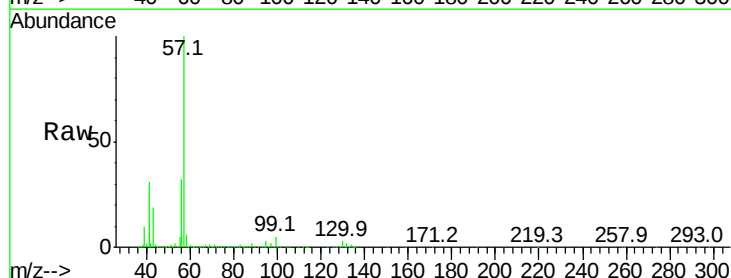
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

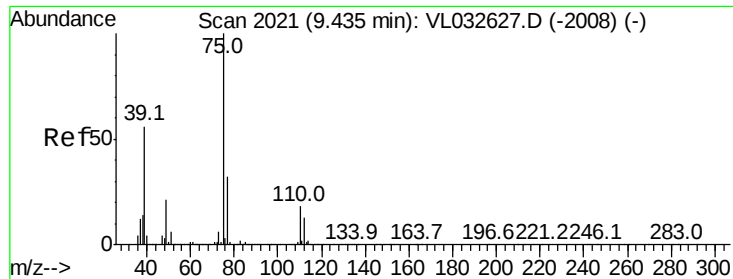
Tgt Ion: 69 Resp: 1058396
Ion Ratio Lower Upper
69 100
41 140.9 113.2 169.8
100 29.4 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 11.465 ppbv
RT: 8.01 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VL032651.D
Acq: 17 Oct 2018 21:58

Tgt Ion: 57 Resp: 4447608
Ion Ratio Lower Upper
57 100
41 30.5 24.7 37.1
56 30.8 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 13.463 ppbv

RT: 9.43 min Scan# 2021

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

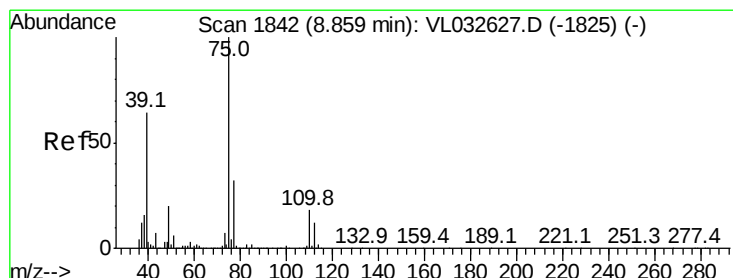
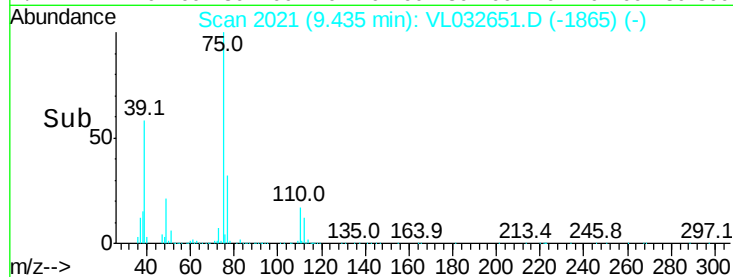
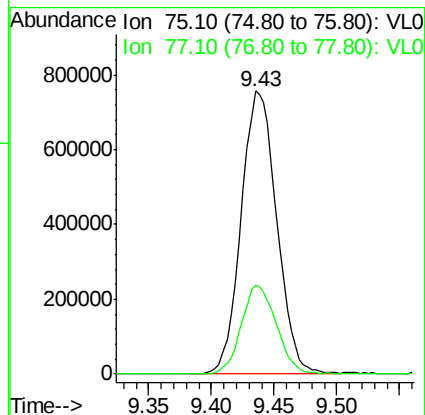
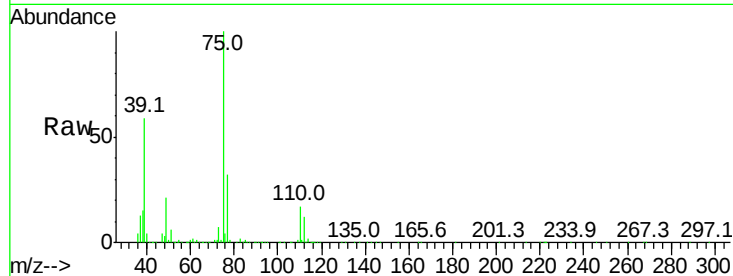
VSTDCCC010EC

Tgt Ion: 75 Resp: 1493634

Ion Ratio Lower Upper

75 100

77 31.5 25.3 37.9



#46

cis-1,3-Dichloropropene

Concen: 12.615 ppbv

RT: 8.86 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

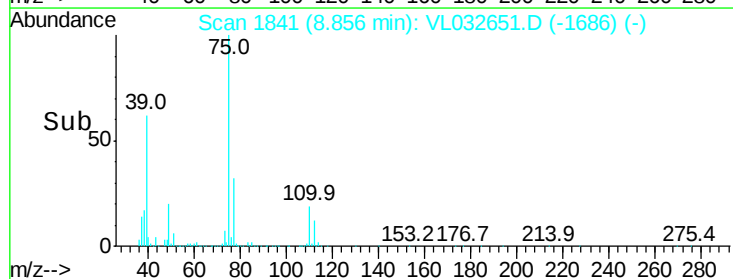
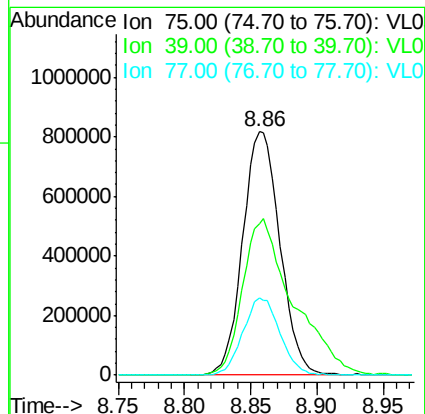
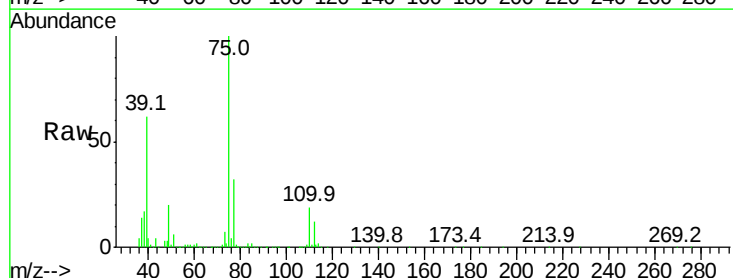
Tgt Ion: 75 Resp: 1593284

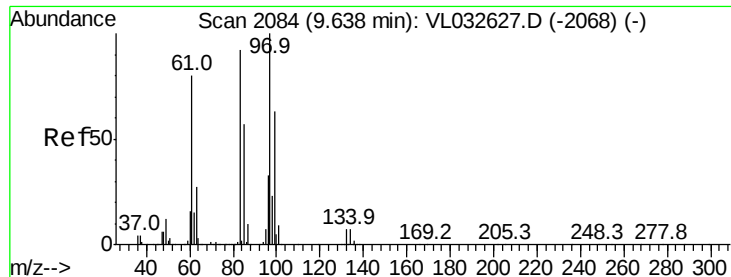
Ion Ratio Lower Upper

75 100

39 62.4 50.9 76.3

77 31.9 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 10.544 ppbv

RT: 9.64 min Scan# 2084

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 97 Resp: 1121691

Ion	Ratio	Lower	Upper
97	100		
83	90.0	73.5	110.3
85	58.7	45.8	68.6
99	61.5	50.6	75.8

97 100

83 90.0 73.5 110.3

85 58.7 45.8 68.6

99 61.5 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

800000

600000

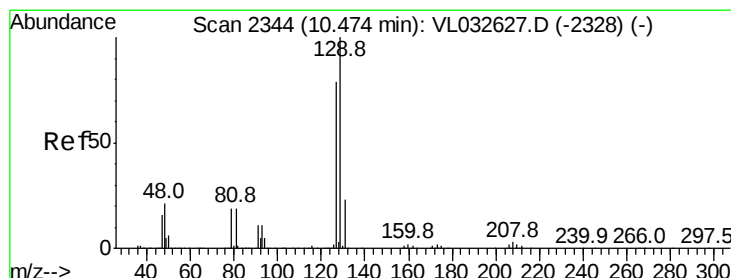
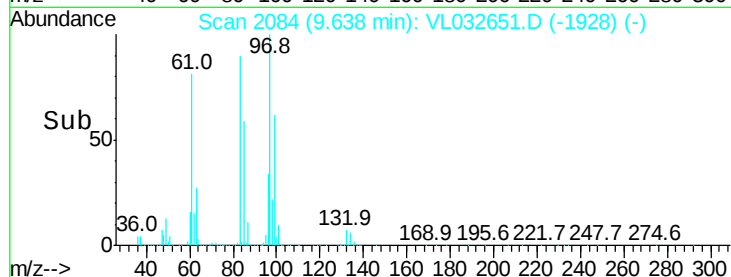
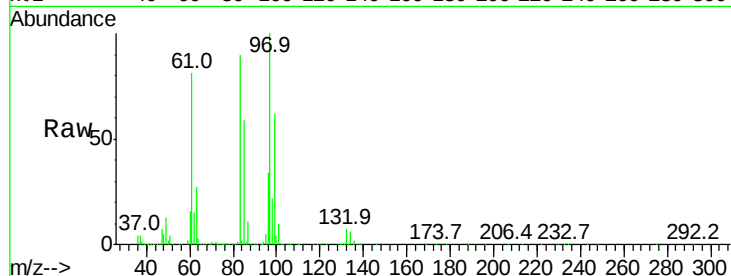
400000

200000

0

9.55 9.60 9.65 9.70 9.75

Time-->



#48

Dibromochloromethane

Concen: 10.617 ppbv

RT: 10.47 min Scan# 2344

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Tgt Ion: 129 Resp: 1918451

Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.1	117.5

129 100

127 79.1 39.1 117.5

Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

1000000

800000

600000

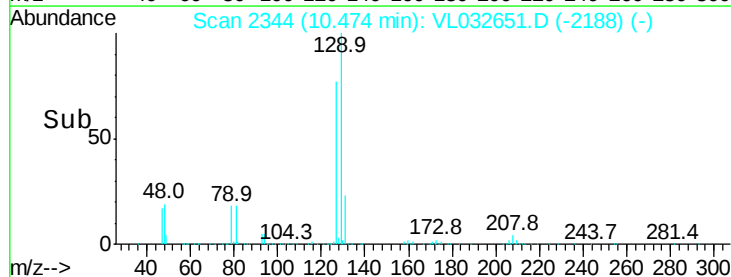
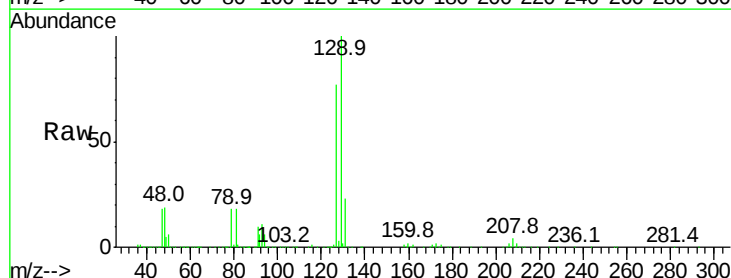
400000

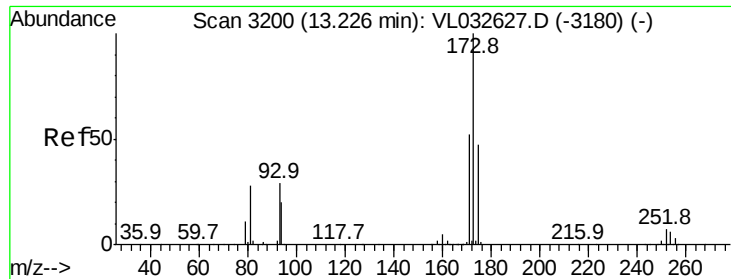
200000

0

10.40 10.50

Time-->





#49

Bromoform

Concen: 10.596 ppbv

RT: 13.23 min Scan# 3200

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

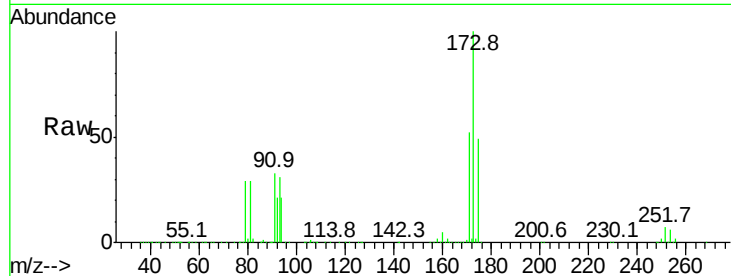
Tgt Ion:173 Resp: 1446599

Ion Ratio Lower Upper

173 100

175 48.8 39.0 58.4

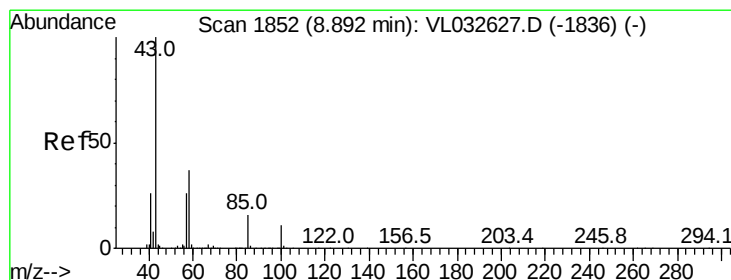
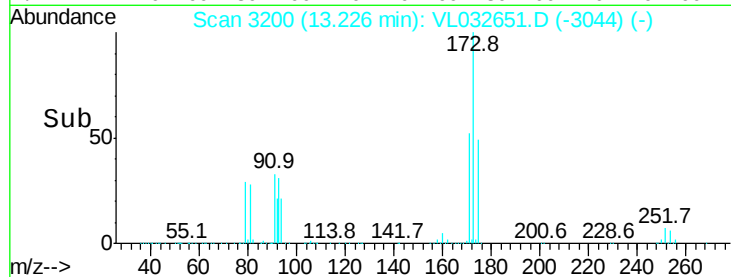
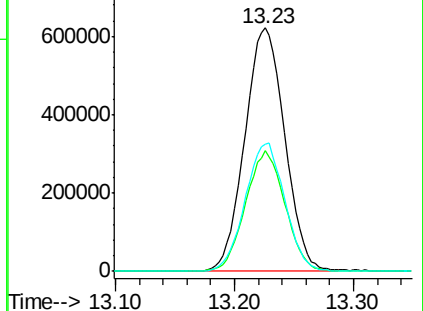
171 52.5 42.2 63.2



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: 11.620 ppbv

RT: 8.89 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VL032651.D

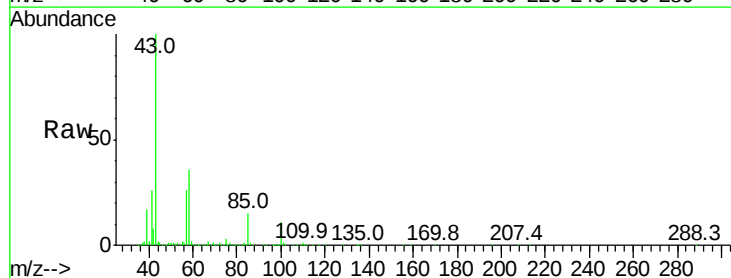
Acq: 17 Oct 2018 21:58

Tgt Ion: 43 Resp: 2562693

Ion Ratio Lower Upper

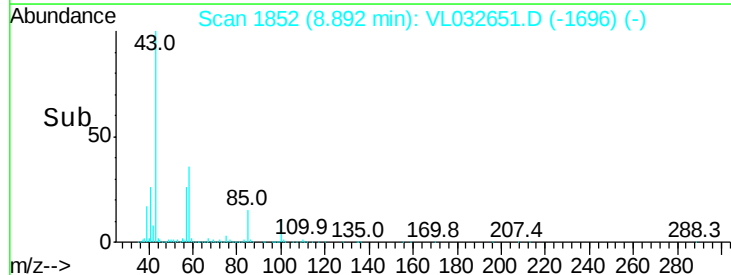
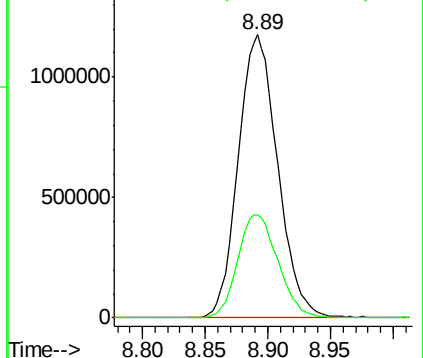
43 100

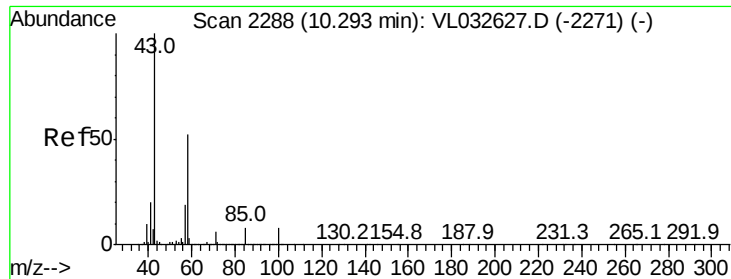
58 37.3 29.7 44.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.948 ppbv

RT: 10.29 min Scan# 2288

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

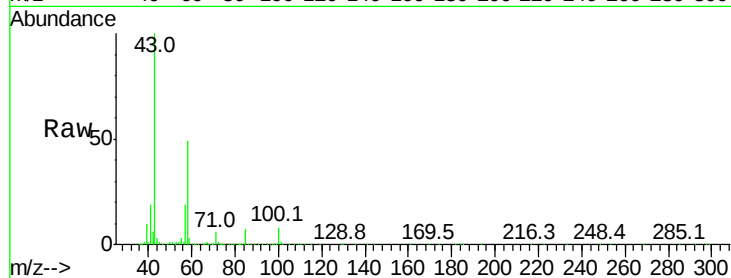
Tgt Ion: 43 Resp: 2245544

Ion Ratio Lower Upper

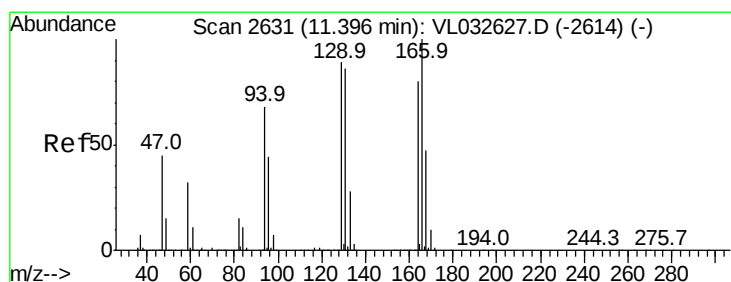
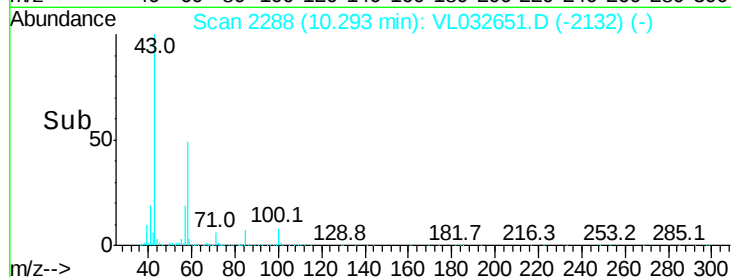
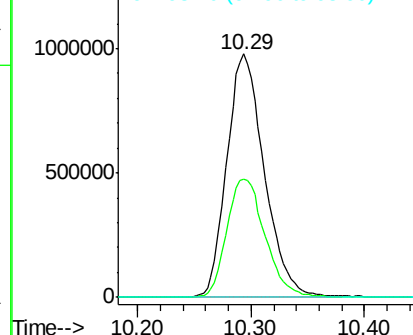
43 100

58 49.9 40.4 60.6

98 0.4 0.4 0.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.864 ppbv

RT: 11.40 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Tgt Ion: 164 Resp: 854692

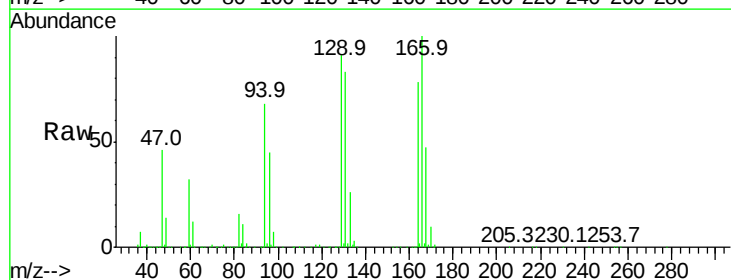
Ion Ratio Lower Upper

164 100

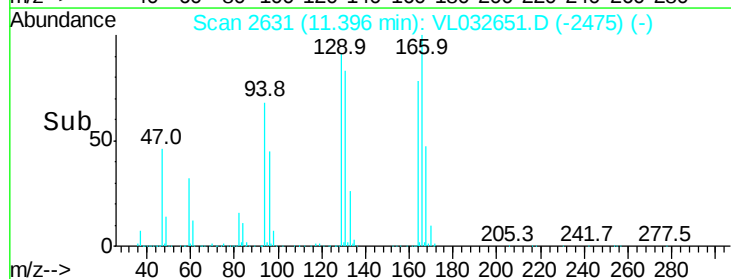
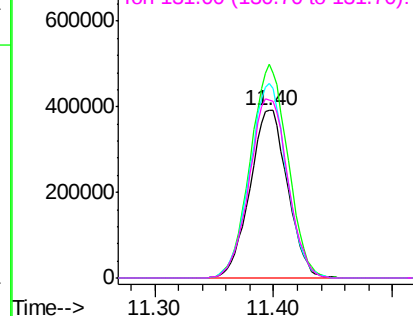
166 127.7 100.5 150.7

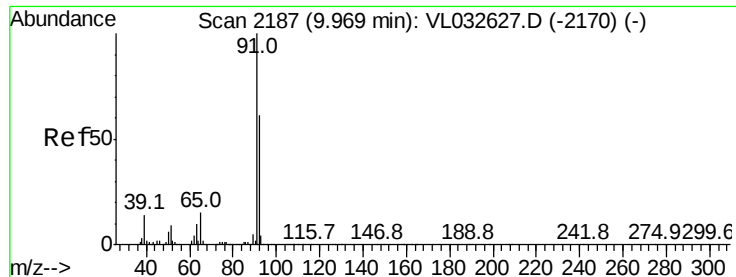
129 116.2 90.0 135.0

131 106.3 86.6 129.8



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





#53

Toluene

Concen: 12.549 ppbv

RT: 9.97 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

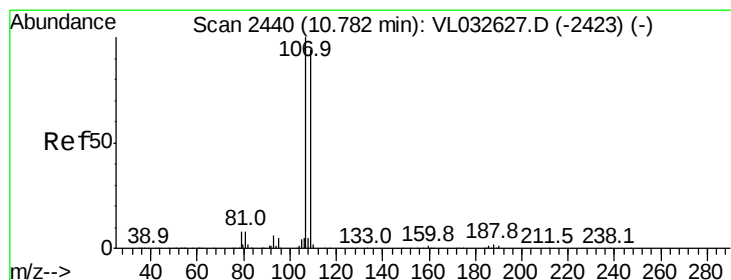
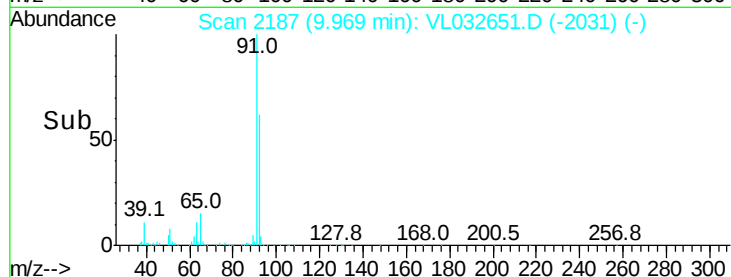
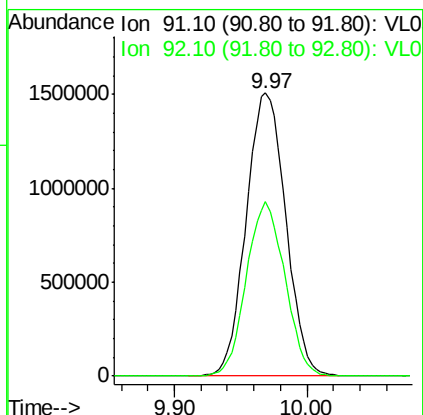
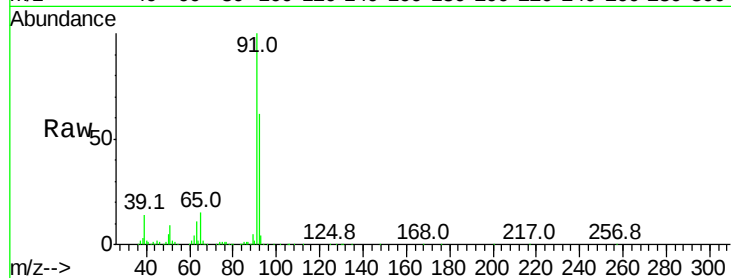
VSTDCCC010EC

Tgt Ion: 91 Resp: 3130707

Ion Ratio Lower Upper

91 100

92 60.1 48.4 72.6



#54

1,2-Dibromoethane

Concen: 11.120 ppbv

RT: 10.78 min Scan# 2440

Delta R.T. 0.00 min

Lab File: VL032651.D

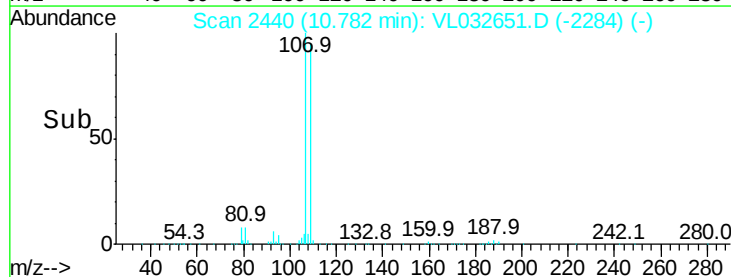
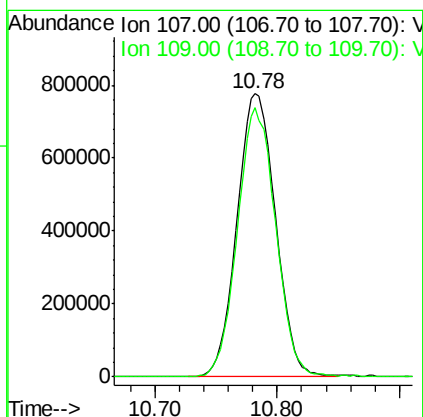
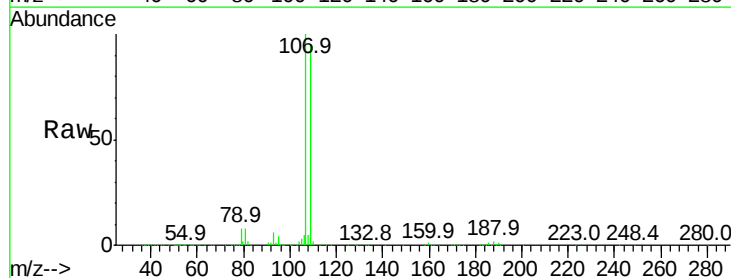
Acq: 17 Oct 2018 21:58

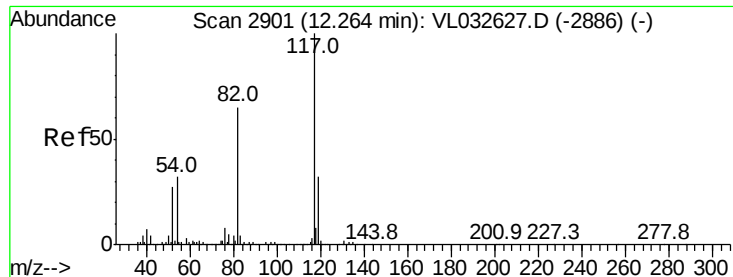
Tgt Ion: 107 Resp: 1693831

Ion Ratio Lower Upper

107 100

109 95.0 75.3 112.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.26 min Scan# 2900

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

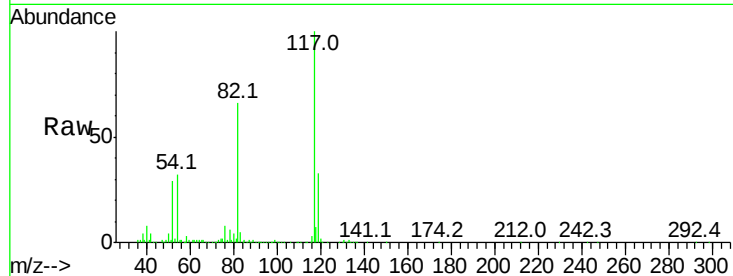
Tgt Ion:117 Resp: 2853697

Ion Ratio Lower Upper

117 100

82 64.9 52.7 79.1

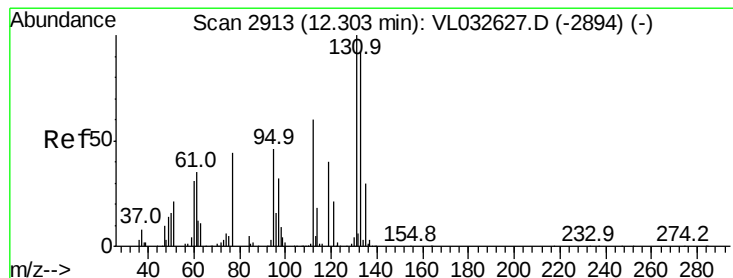
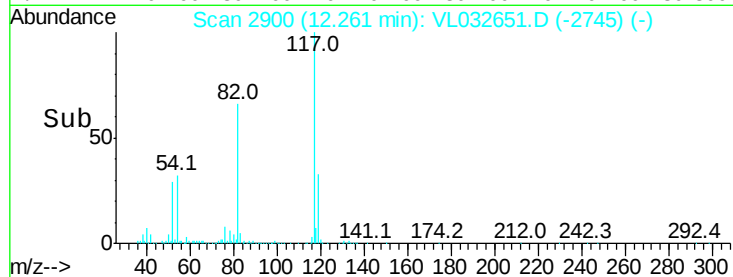
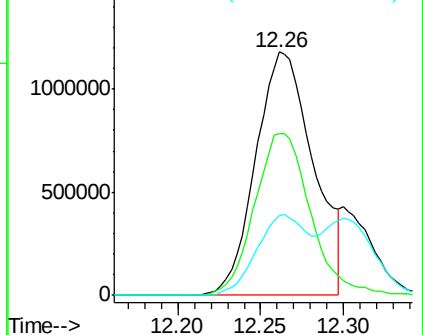
119 32.4 26.7 40.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.596 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

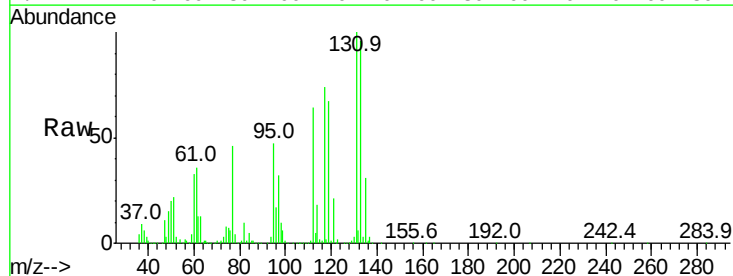
Tgt Ion:131 Resp: 1257426

Ion Ratio Lower Upper

131 100

133 94.5 75.4 113.2

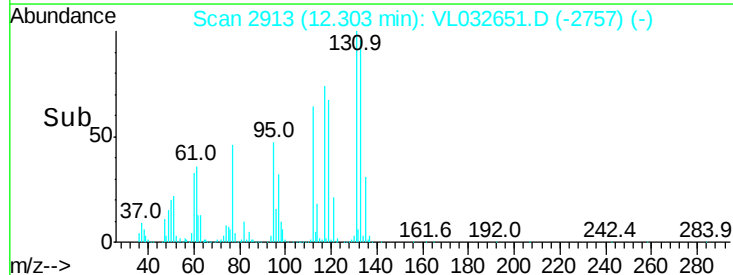
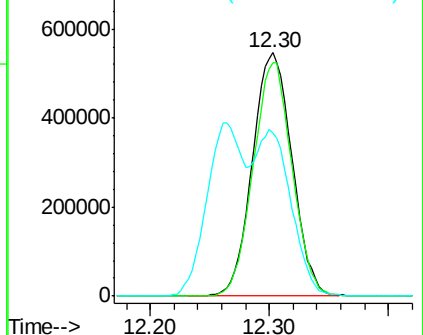
119 61.5 49.1 73.7

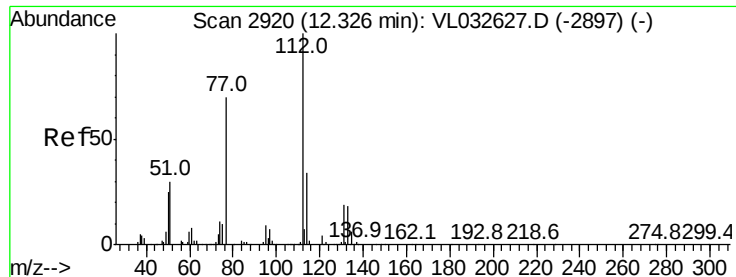


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.865 ppbv

RT: 12.32 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

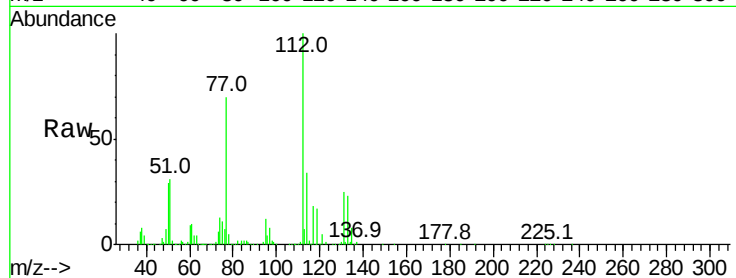
Tgt Ion: 112 Resp: 2140959

Ion Ratio Lower Upper

112 100

77 69.9 56.8 85.2

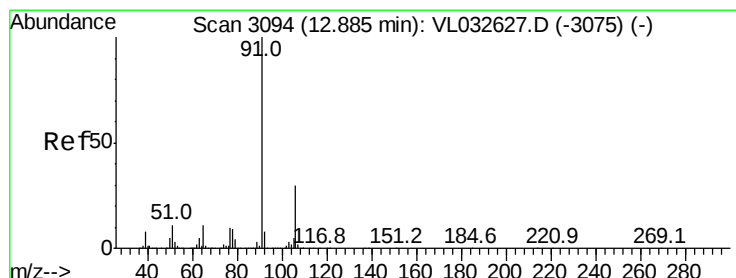
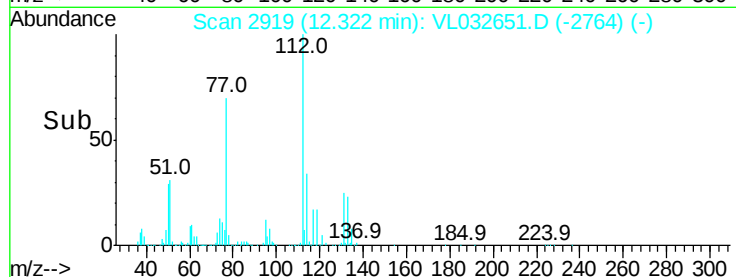
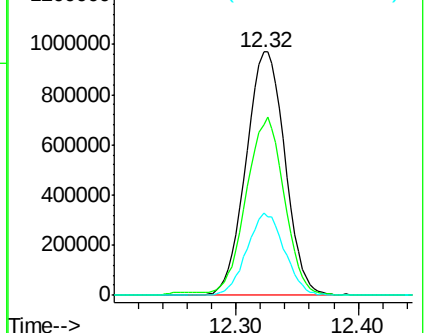
114 33.6 30.3 37.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 12.105 ppbv

RT: 12.89 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL032651.D

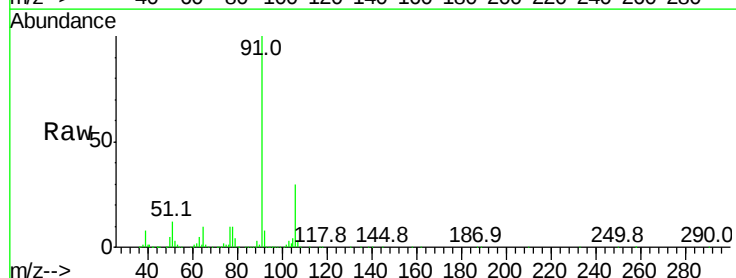
Acq: 17 Oct 2018 21:58

Tgt Ion: 91 Resp: 3879367

Ion Ratio Lower Upper

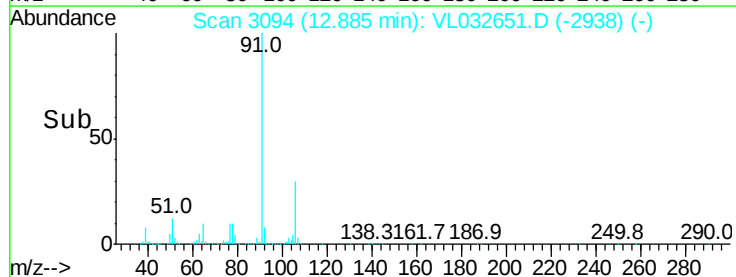
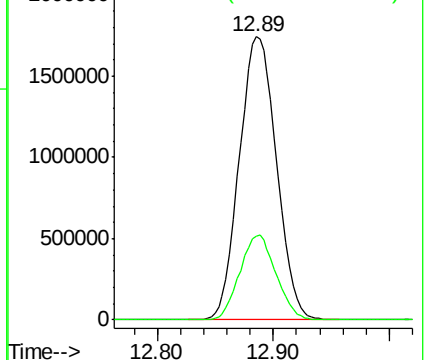
91 100

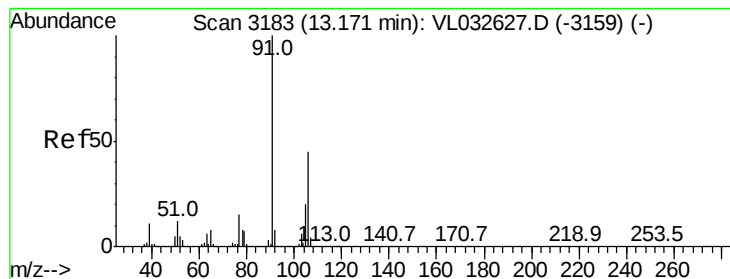
106 29.7 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 10.181 ppbv

RT: 13.17 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

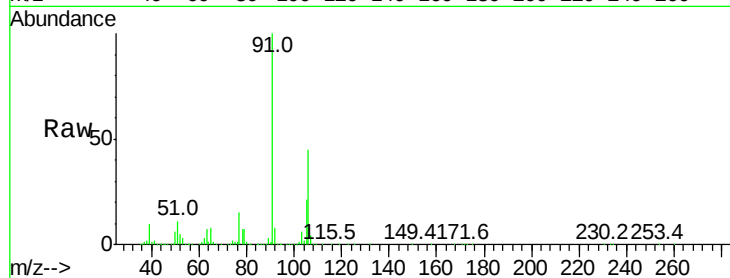
VSTDCCC010EC

Tgt Ion: 91 Resp: 2912518

Ion Ratio Lower Upper

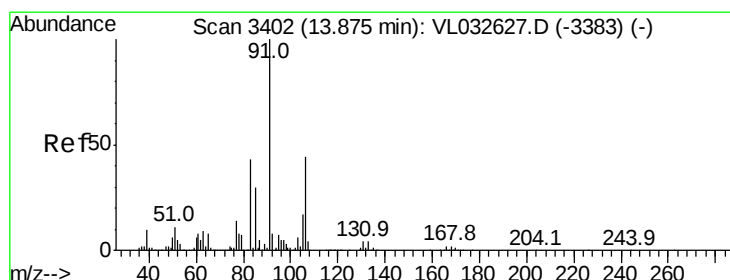
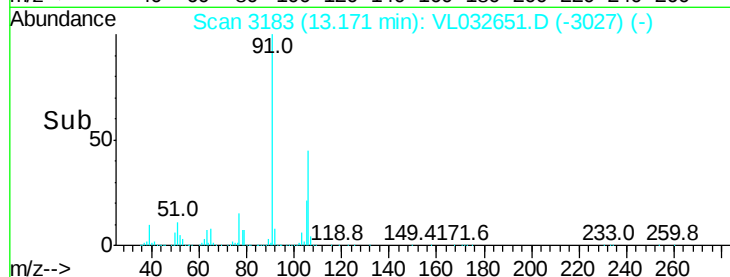
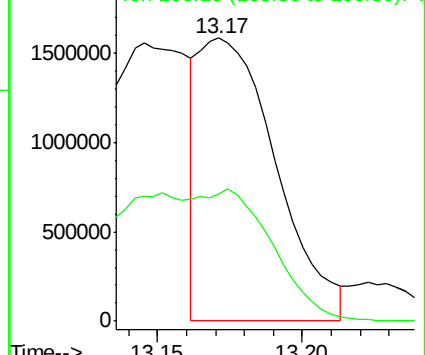
91 100

106 97.6 35.9 53.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 11.043 ppbv

RT: 13.87 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VL032651.D

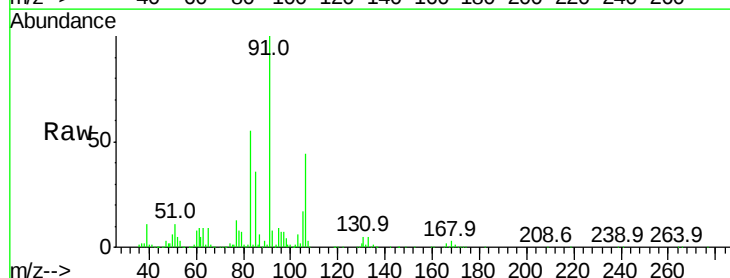
Acq: 17 Oct 2018 21:58

Tgt Ion: 91 Resp: 3147942

Ion Ratio Lower Upper

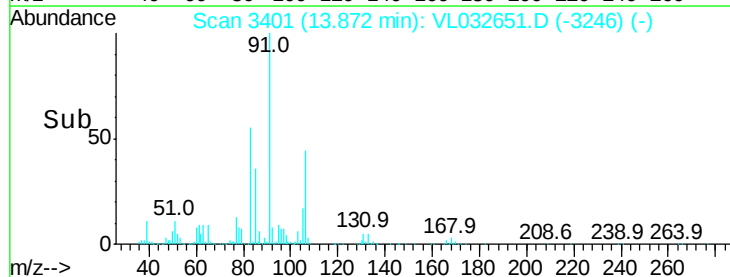
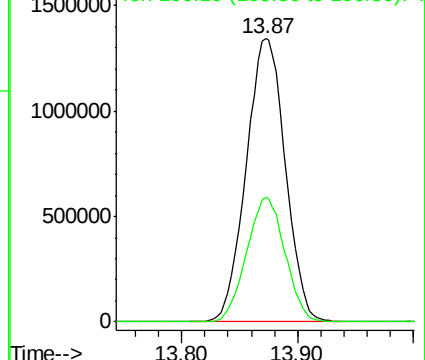
91 100

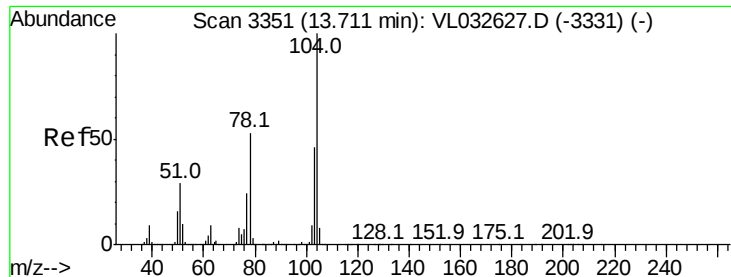
106 43.3 22.1 66.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Styrene

Concen: 13.027 ppbv

RT: 13.71 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

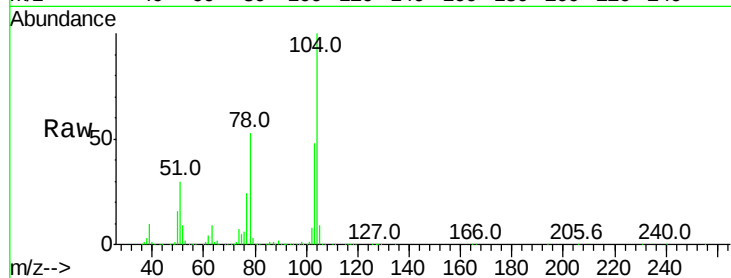
Tgt Ion:104 Resp: 2250718

Ion Ratio Lower Upper

104 100

78 54.8 42.8 64.2

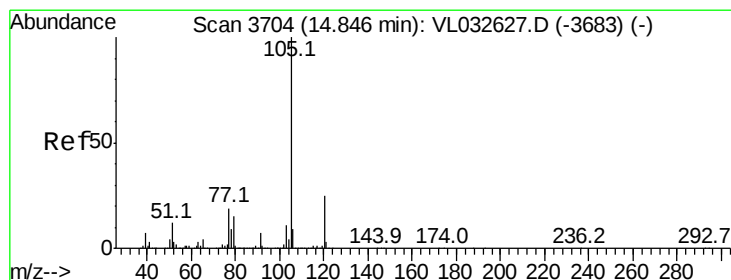
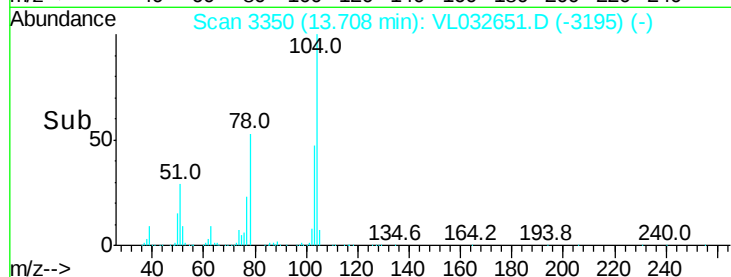
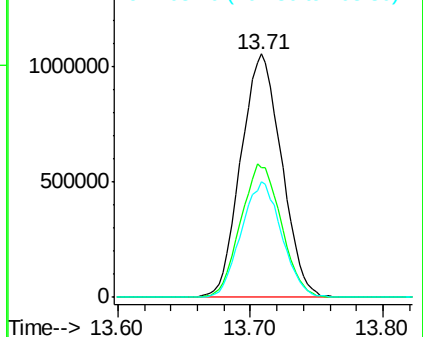
103 47.4 37.4 56.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.886 ppbv

RT: 14.85 min Scan# 3705

Delta R.T. 0.00 min

Lab File: VL032651.D

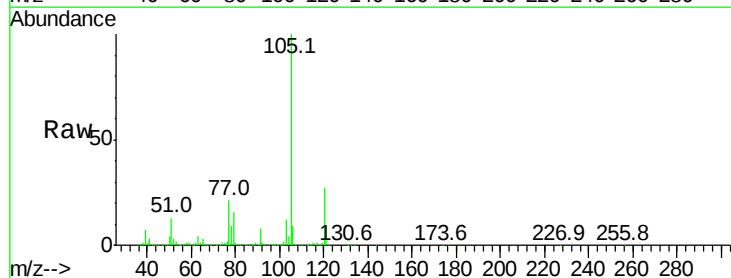
Acq: 17 Oct 2018 21:58

Tgt Ion:105 Resp: 4421104

Ion Ratio Lower Upper

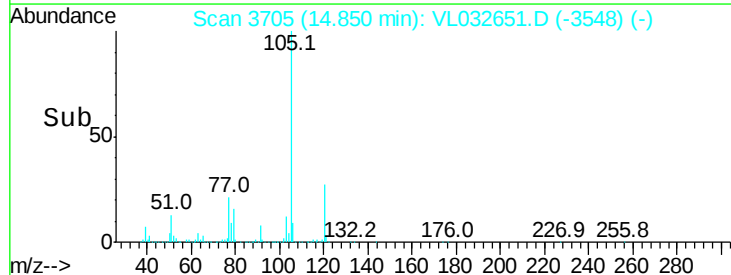
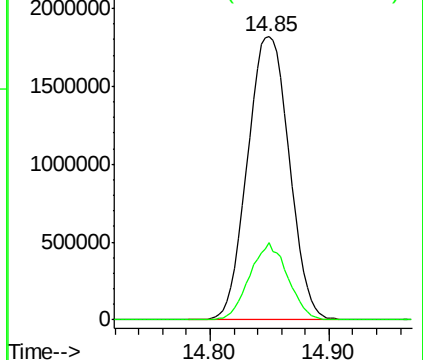
105 100

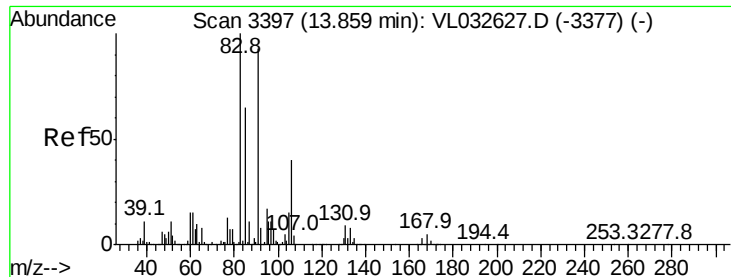
120 24.8 20.5 30.7



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: 9.379 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

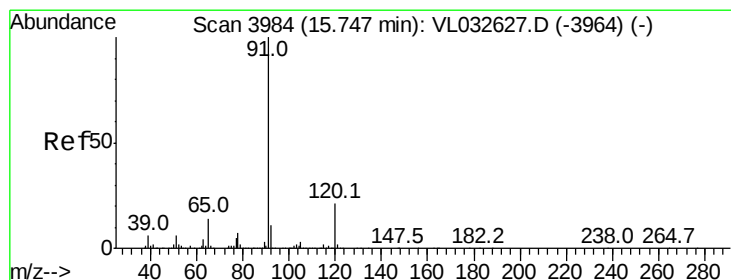
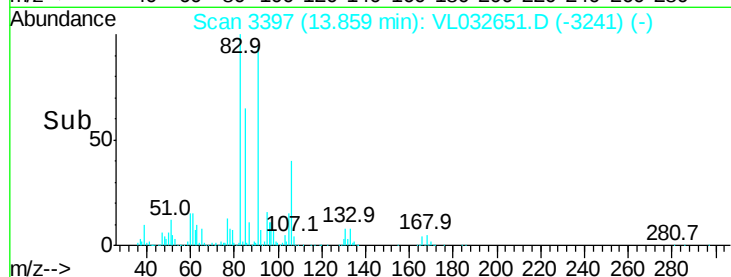
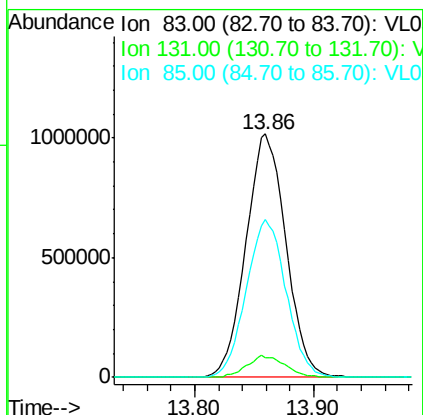
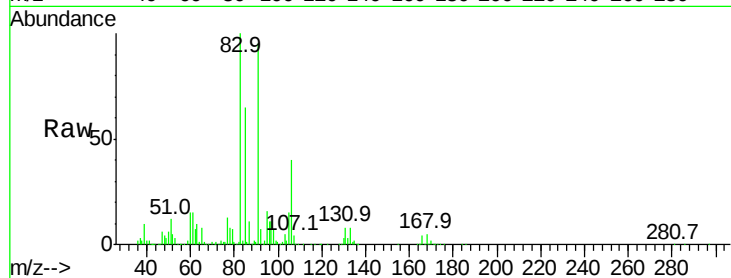
Tgt Ion: 83 Resp: 2359574

Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.3	12.9
85	64.7	32.3	96.9

83 100

131 8.6 4.3 12.9

85 64.7 32.3 96.9



#64

n-propylbenzene

Concen: 10.951 ppbv

RT: 15.74 min Scan# 3983

Delta R.T. -0.00 min

Lab File: VL032651.D

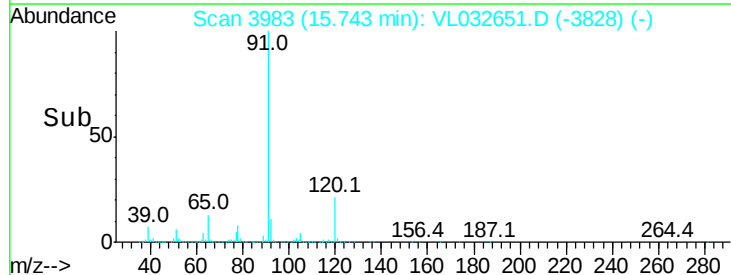
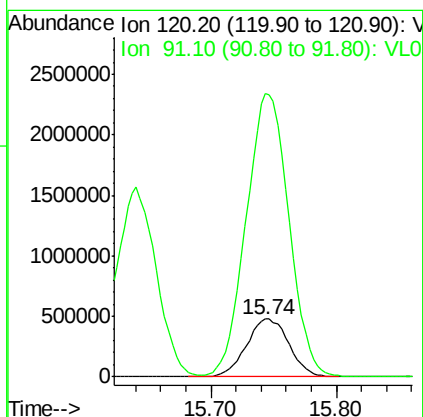
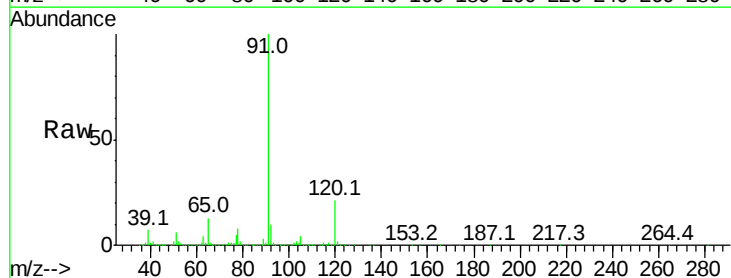
Acq: 17 Oct 2018 21:58

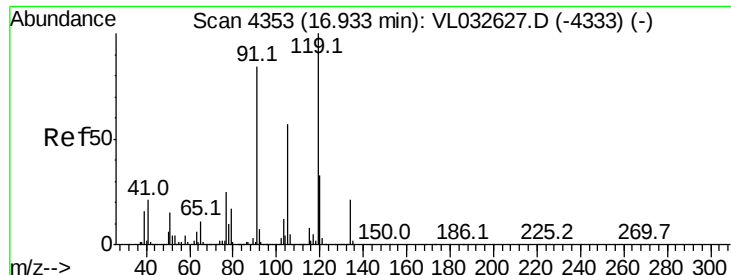
Tgt Ion: 120 Resp: 1126913

Ion	Ratio	Lower	Upper
120	100		
91	492.3	390.2	585.2

120 100

91 492.3 390.2 585.2

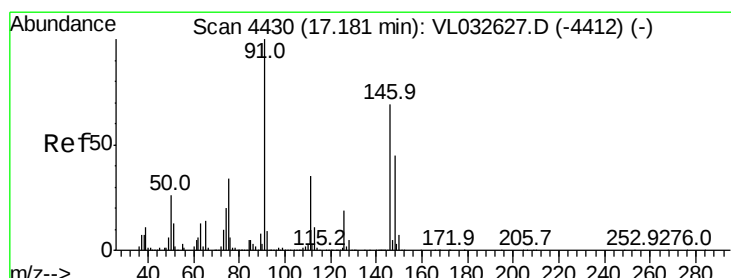
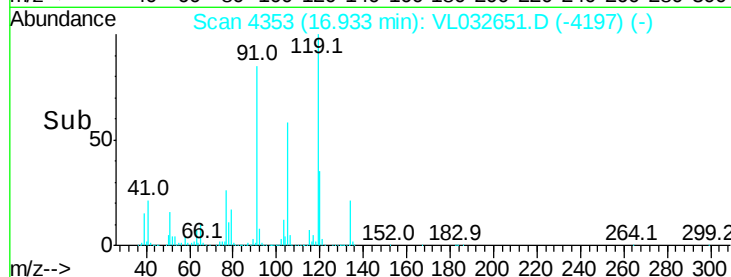
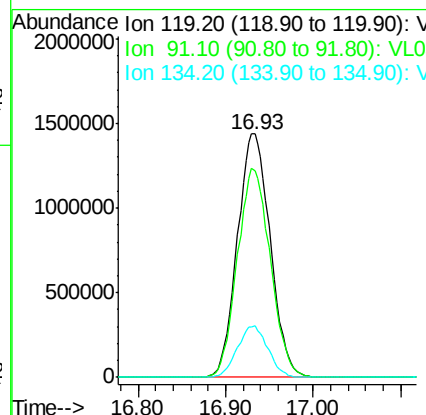
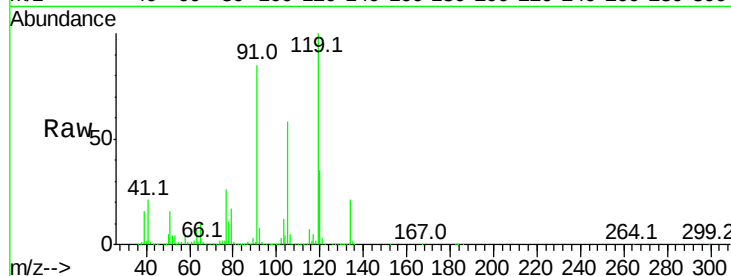




#65
 tert-Butylbenzene
 Concen: 10.852 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

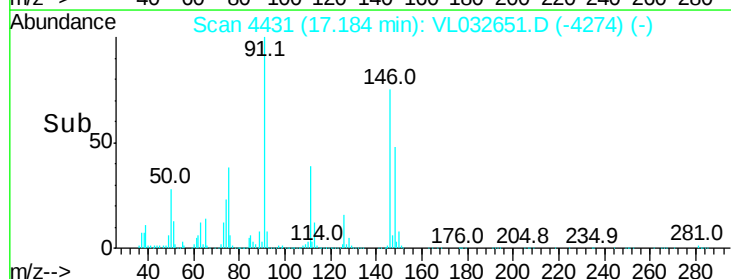
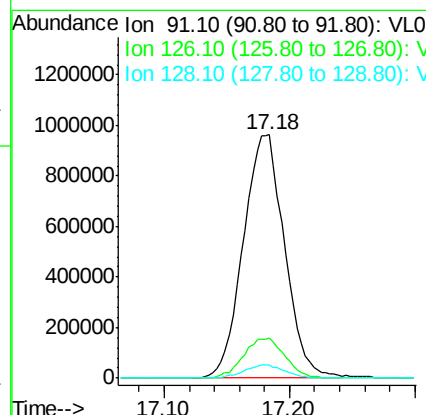
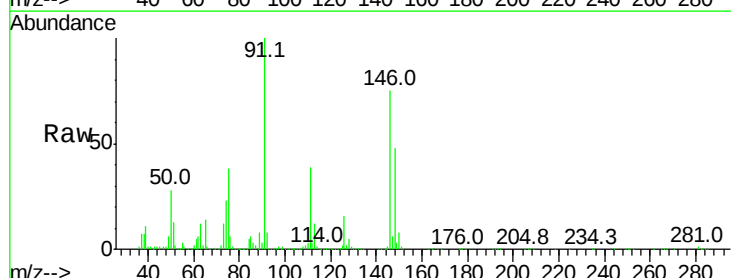
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

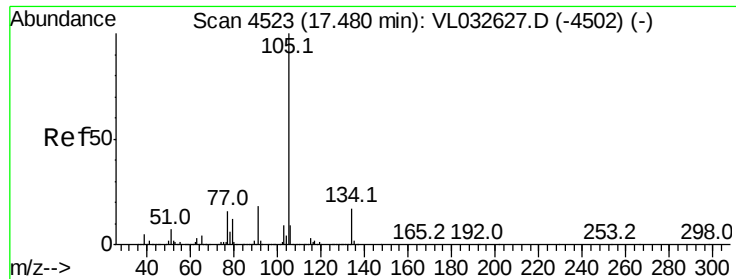
Tgt Ion: 119 Resp: 3739459
 Ion Ratio Lower Upper
 119 100
 91 86.6 67.8 101.8
 134 19.7 15.8 23.8



#66
 Benzyl Chloride
 Concen: 11.320 ppbv
 RT: 17.18 min Scan# 4431
 Delta R.T. 0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

Tgt Ion: 91 Resp: 2199249
 Ion Ratio Lower Upper
 91 100
 126 16.7 13.9 20.9
 128 5.4 4.3 6.5

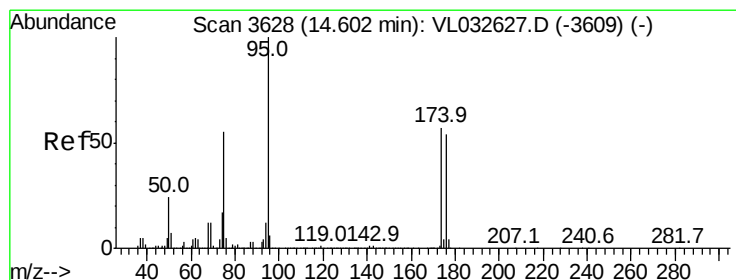
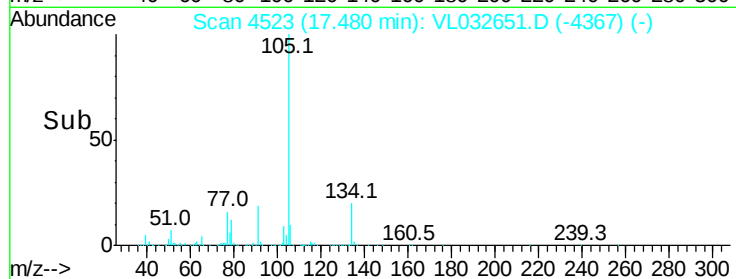
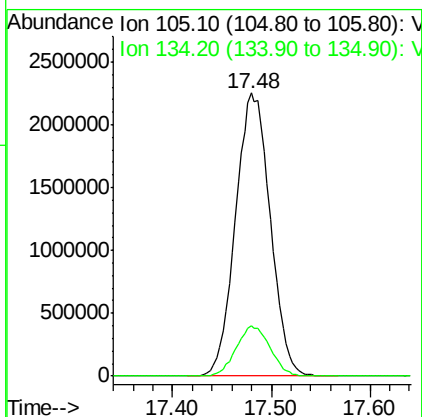
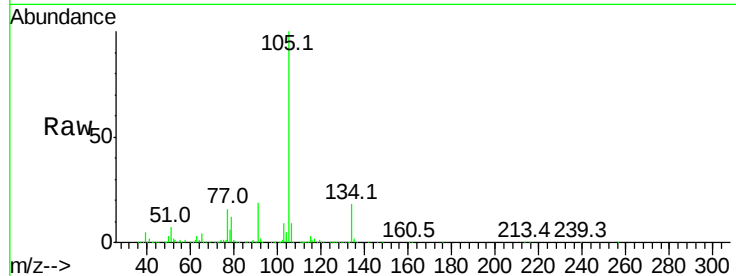




#67
 sec-Butylbenzene
 Concen: 10.588 ppbv
 RT: 17.48 min Scan# 4523
 Delta R.T. 0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

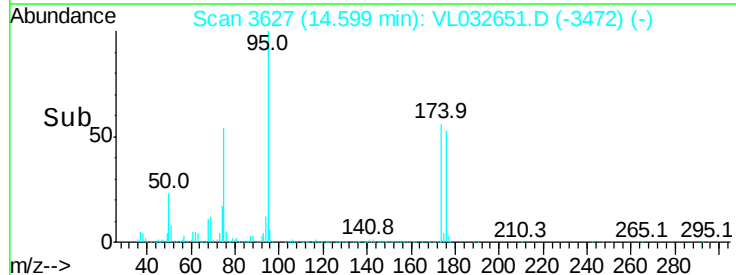
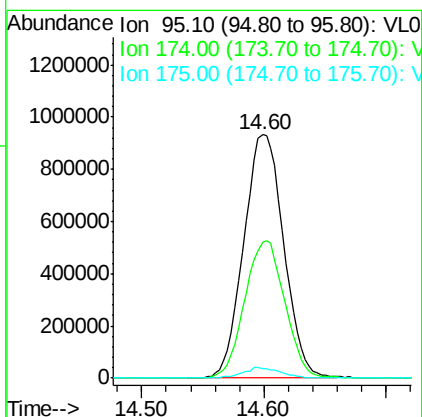
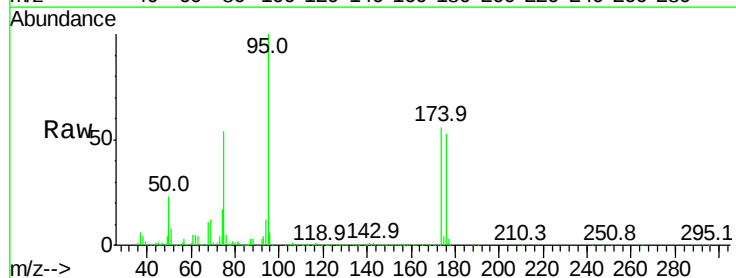
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

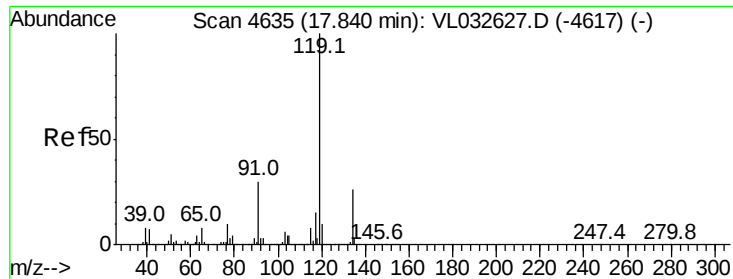
Tgt Ion: 105 Resp: 5491345
 Ion Ratio Lower Upper
 105 100
 134 17.4 14.2 21.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.821 ppbv
 RT: 14.60 min Scan# 3627
 Delta R.T. -0.00 min
 Lab File: VL032651.D
 Acq: 17 Oct 2018 21:58

Tgt Ion: 95 Resp: 2110246
 Ion Ratio Lower Upper
 95 100
 174 56.9 46.0 69.0
 175 4.1 3.4 5.0





#69

p-Isopropyltoluene

Concen: 11.095 ppbv

RT: 17.84 min Scan# 4635

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

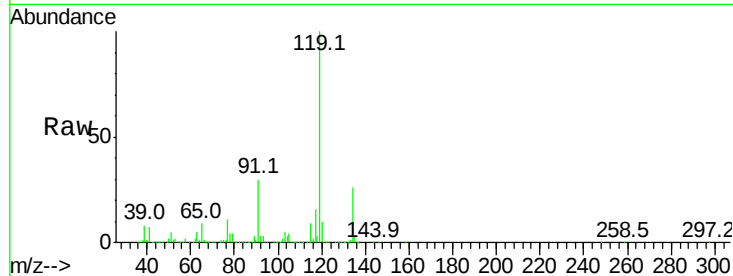
Tgt Ion:119 Resp: 4355382

Ion Ratio Lower Upper

119 100

134 25.0 20.2 30.2

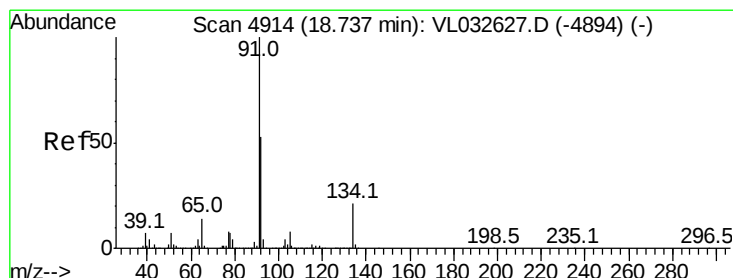
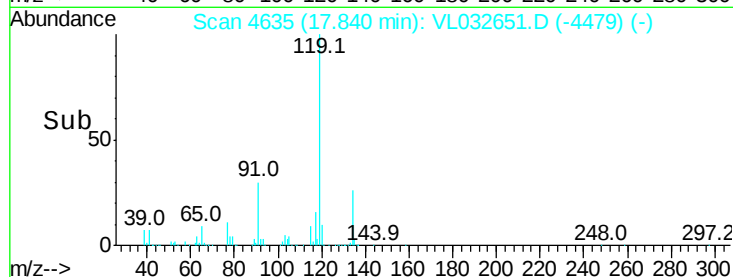
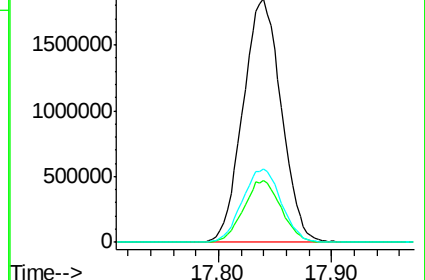
91 30.8 24.0 36.0



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 11.094 ppbv

RT: 18.74 min Scan# 4915

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

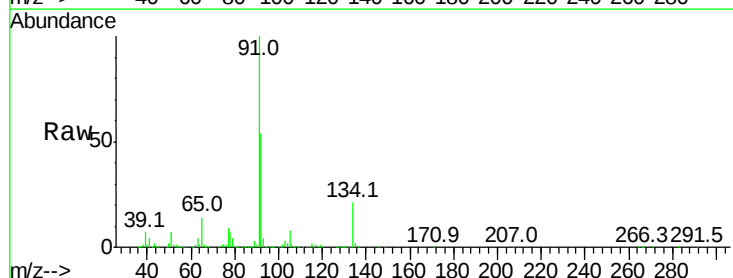
Tgt Ion: 91 Resp: 4797949

Ion Ratio Lower Upper

91 100

92 53.6 43.0 64.4

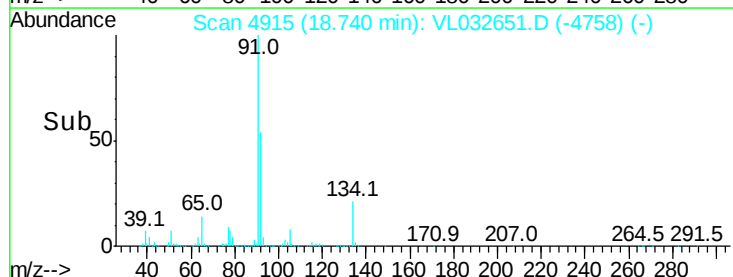
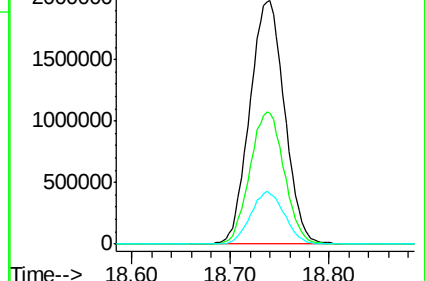
134 21.0 17.0 25.6

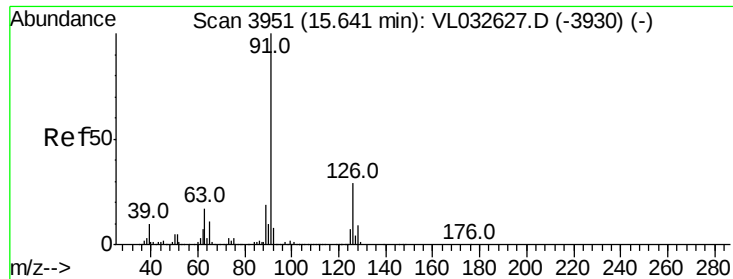


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 11.597 ppbv

RT: 15.64 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

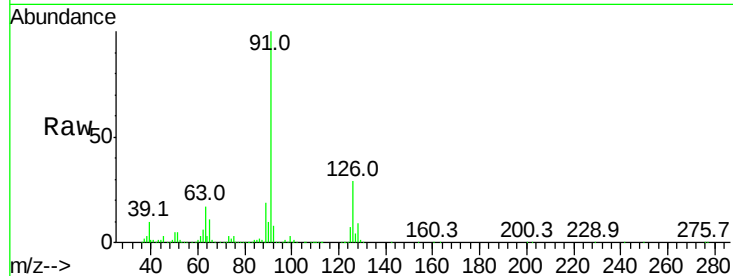
VSTDCCC010EC

Tgt Ion: 91 Resp: 3481629

Ion Ratio Lower Upper

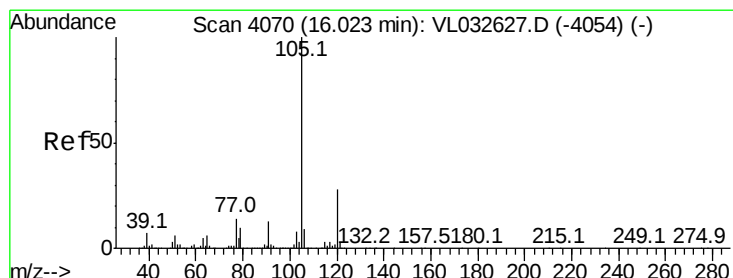
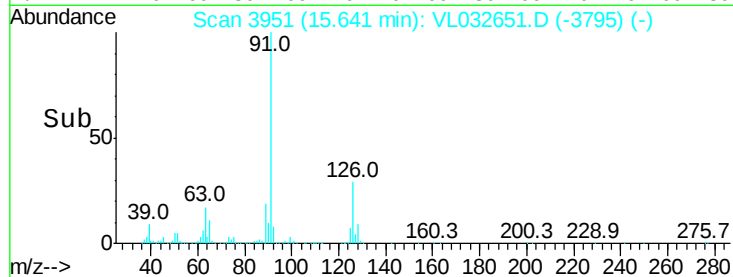
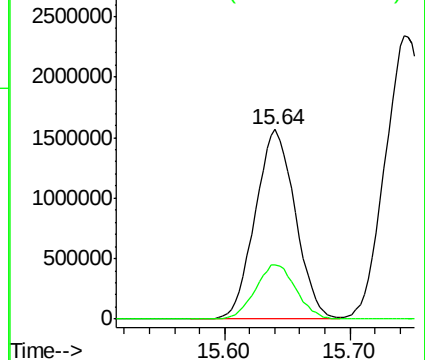
91 100

126 29.2 11.8 47.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.579 ppbv

RT: 16.02 min Scan# 4069

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Tgt Ion: 105 Resp: 3568391

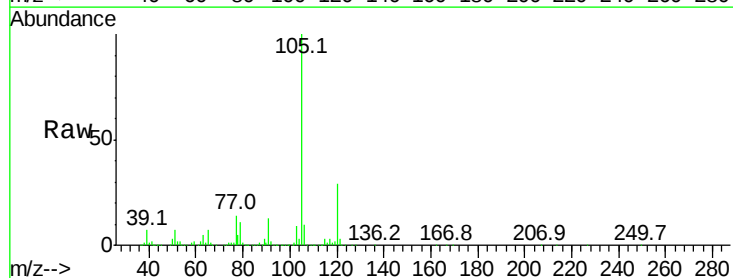
Ion Ratio Lower Upper

105 100

120 28.7 23.7 35.5

91 13.2 10.4 15.6

77 14.7 11.4 17.2

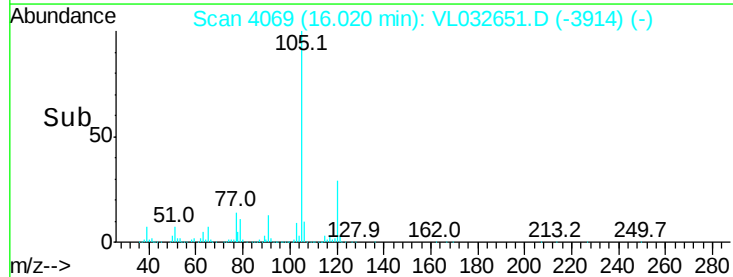
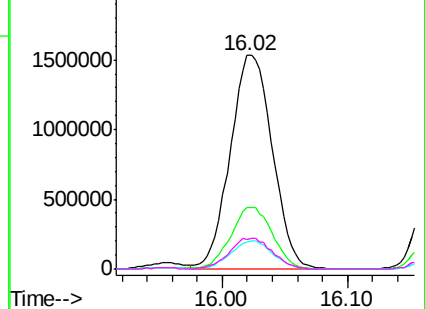


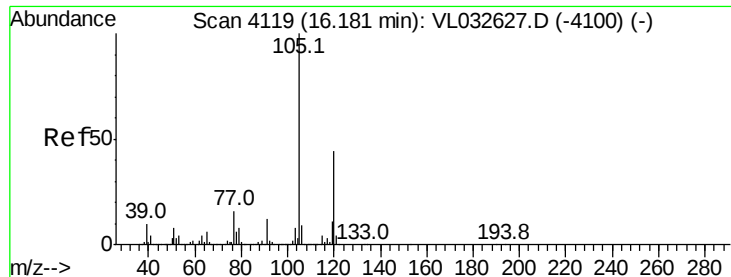
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 11.048 ppbv

RT: 16.18 min Scan# 4120

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

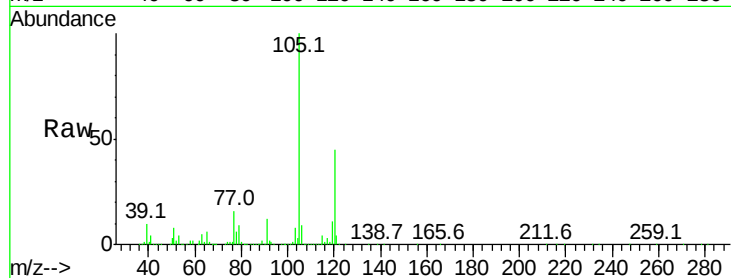
VSTDCCC010EC

Tgt Ion:105 Resp: 3386297

Ion Ratio Lower Upper

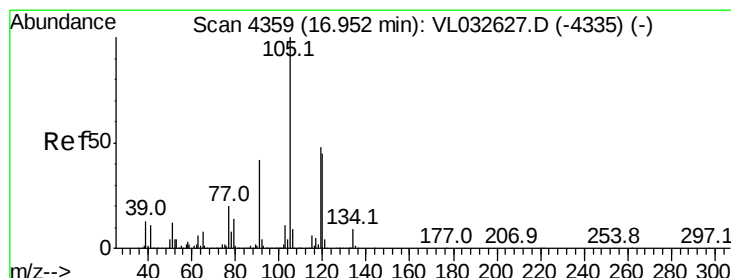
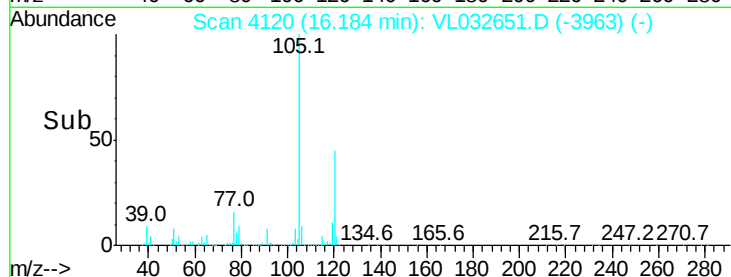
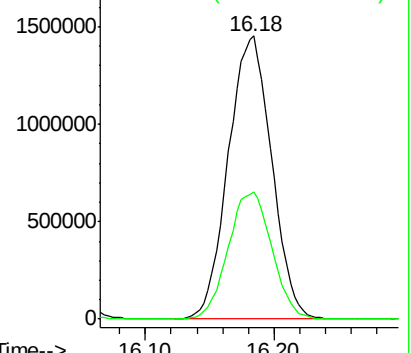
105 100

120 45.2 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: 10.328 ppbv

RT: 16.95 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Tgt Ion:105 Resp: 3485355

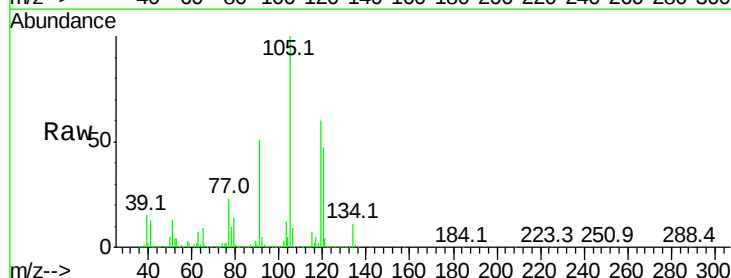
Ion Ratio Lower Upper

105 100

120 47.4 35.8 53.8

91 51.2 33.2 49.8#

77 22.6 16.2 24.4

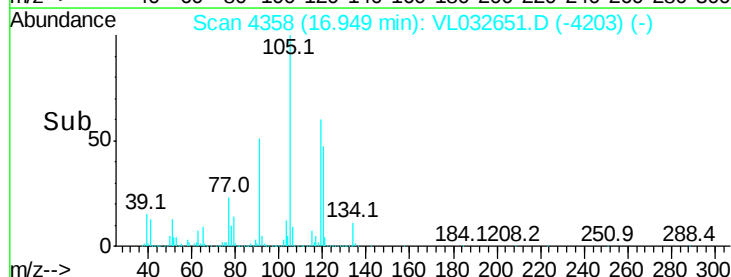
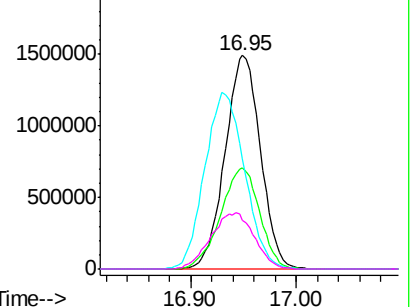


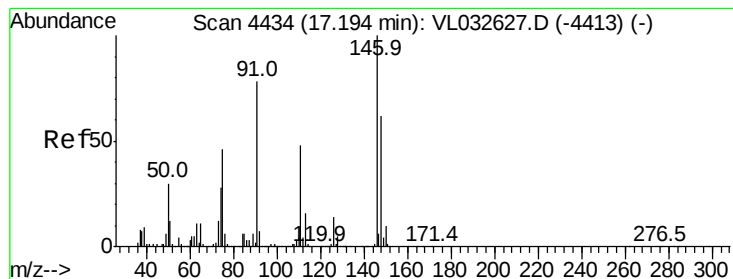
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.636 ppbv

RT: 17.19 min Scan# 4433

Delta R.T. -0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

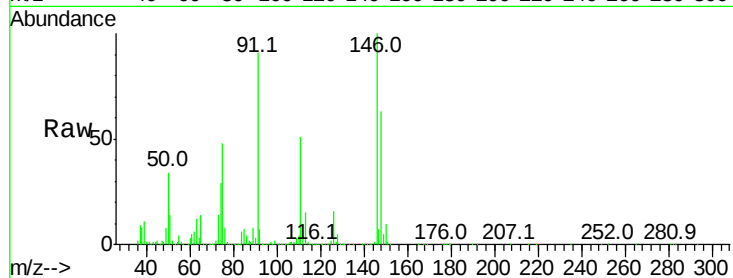
Tgt Ion:146 Resp: 1889880

Ion Ratio Lower Upper

146 100

111 49.4 24.4 73.2

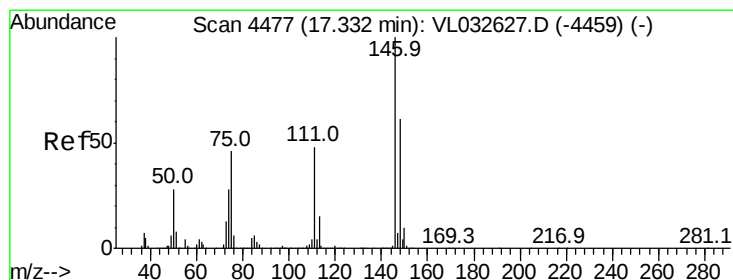
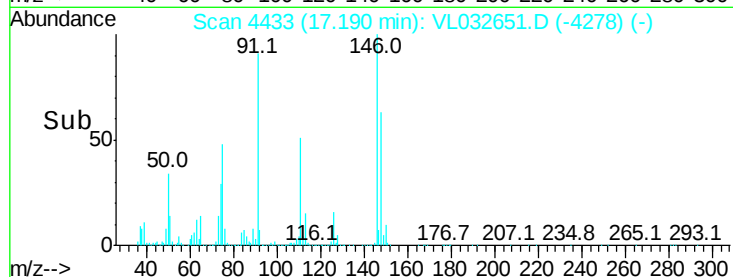
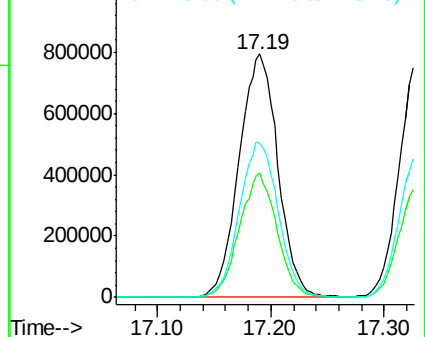
148 64.3 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.496 ppbv

RT: 17.33 min Scan# 4478

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

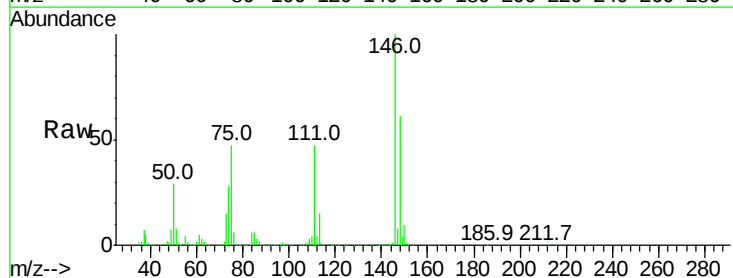
Tgt Ion:146 Resp: 1875738

Ion Ratio Lower Upper

146 100

111 48.0 23.7 71.1

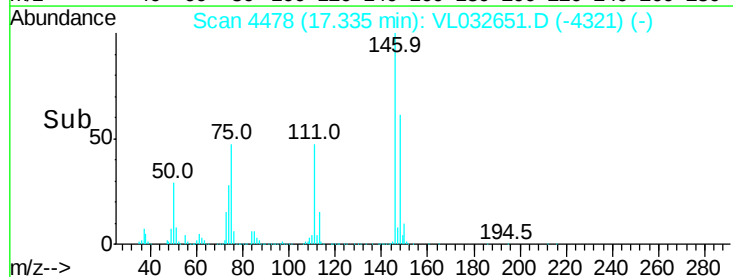
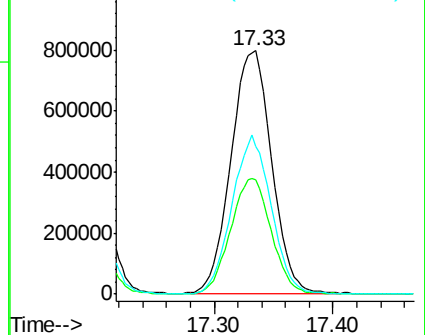
148 63.6 32.1 96.3

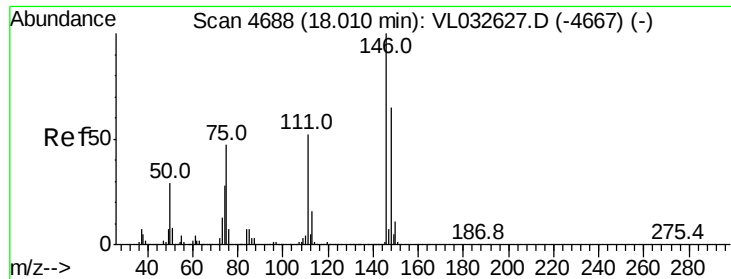


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.914 ppbv

RT: 18.01 min Scan# 4688

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

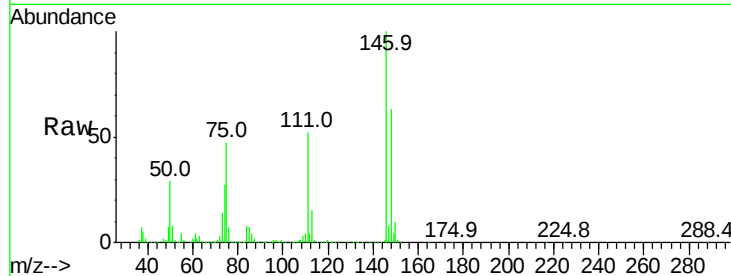
Tgt Ion:146 Resp: 1869125

Ion Ratio Lower Upper

146 100

111 50.8 25.3 75.8

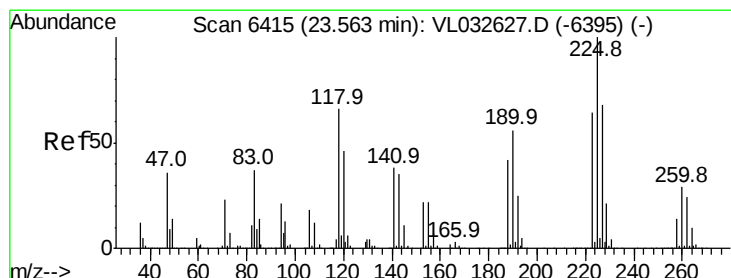
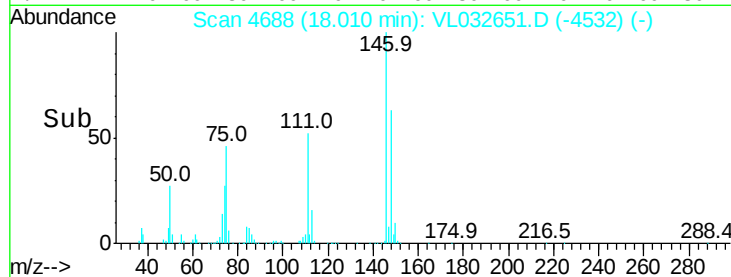
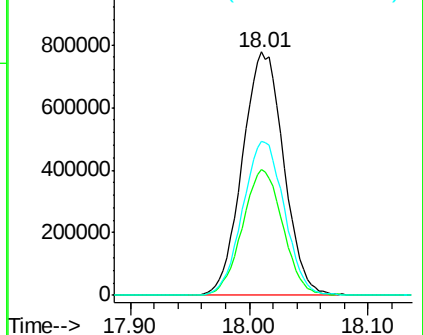
148 63.9 31.9 95.9



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: 6.680 ppbv

RT: 23.56 min Scan# 6415

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

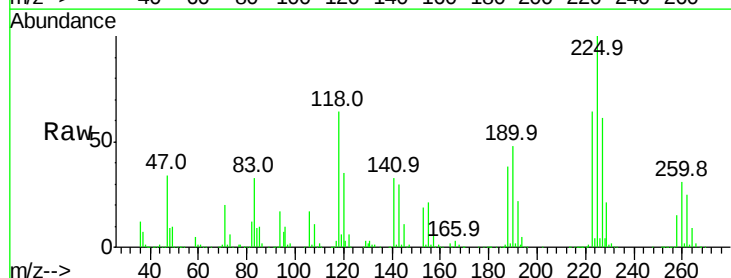
Tgt Ion:225 Resp: 704893

Ion Ratio Lower Upper

225 100

223 63.3 50.7 76.1

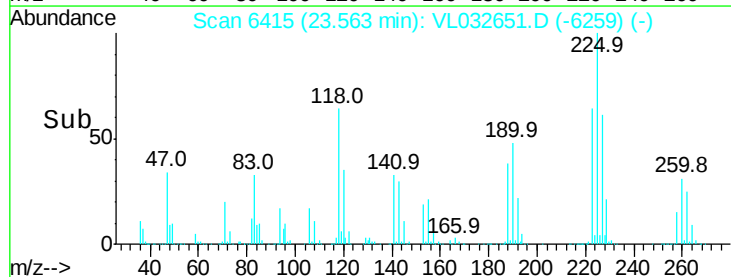
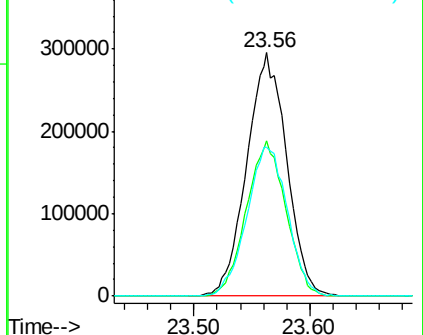
227 62.8 50.7 76.1

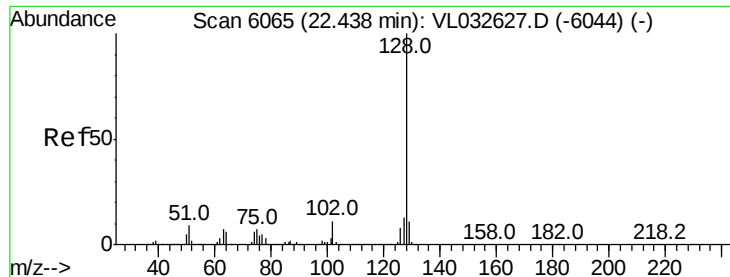


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.348 ppbv

RT: 22.44 min Scan# 6066

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

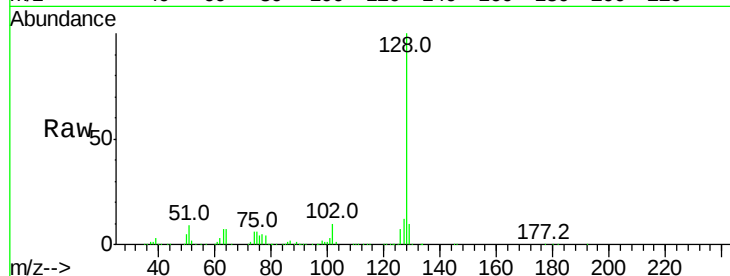
Tgt Ion:128 Resp: 2833703

Ion Ratio Lower Upper

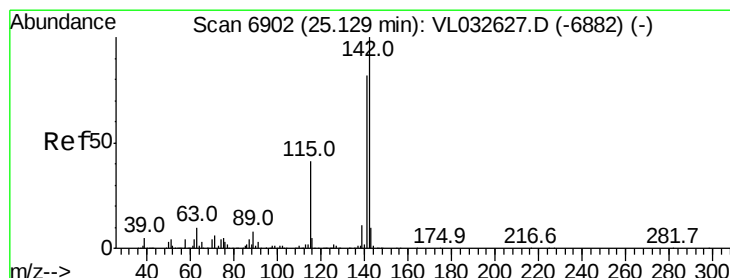
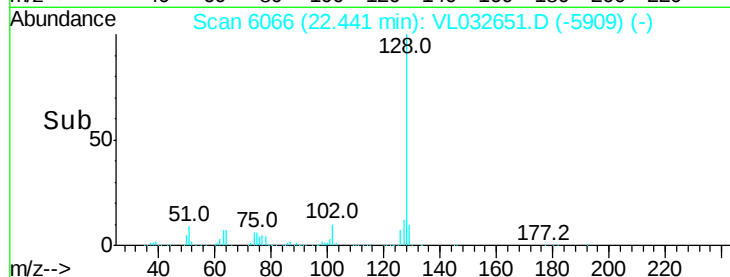
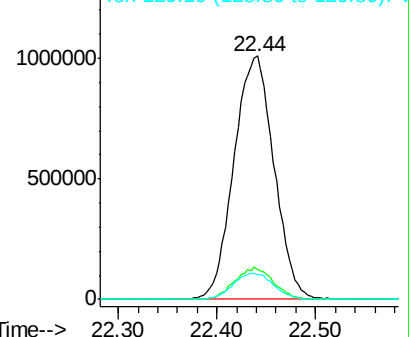
128 100

127 12.5 10.3 15.5

129 10.3 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: 10.242 ppbv

RT: 25.13 min Scan# 6903

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

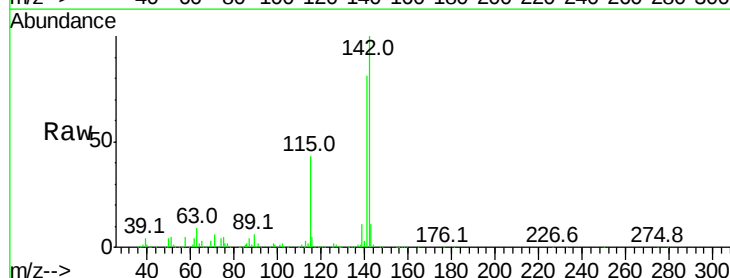
Tgt Ion:142 Resp: 761998

Ion Ratio Lower Upper

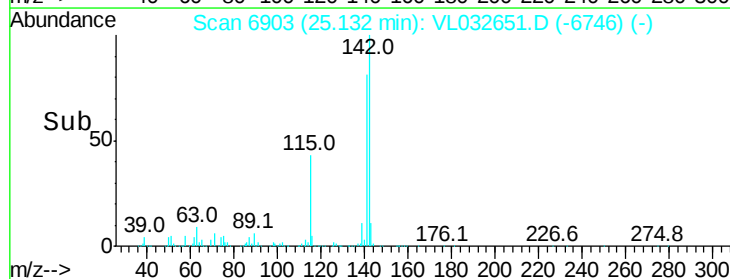
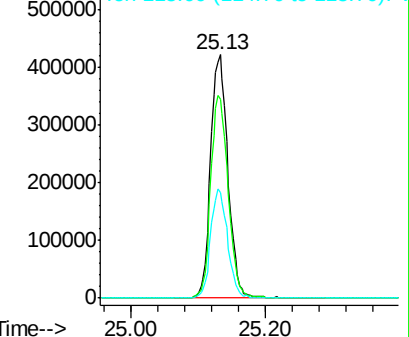
142 100

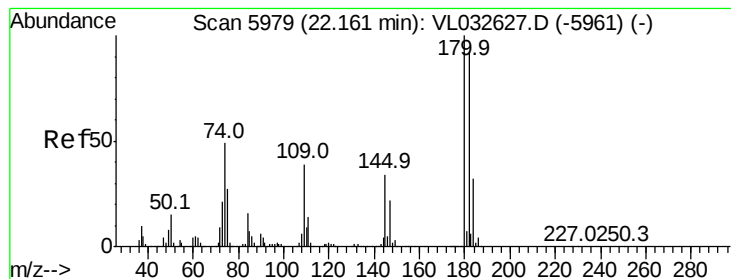
141 84.0 67.5 101.3

115 43.7 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: 11.546 ppbv

RT: 22.16 min Scan# 5979

Delta R.T. 0.00 min

Lab File: VL032651.D

Acq: 17 Oct 2018 21:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

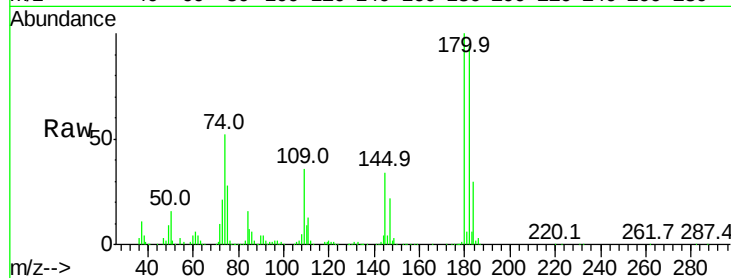
Tgt Ion:180 Resp: 1315275

Ion Ratio Lower Upper

180 100

182 96.0 76.5 114.7

184 30.3 24.7 37.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

