

Data File : VL032714.D
Acq On : 7 Nov 2018 12:58
Operator : SY/AP
Sample : VL1107ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Quant Time: Nov 07 13:49:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1519813	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3847275	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3969230	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2859677	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1832502	11.834	ppbv	99
3) Chlorodifluoromethane	3.02	51	1159770	9.758	ppbv	99
4) Chloromethane	3.18	50	648148	9.758	ppbv	99
5) Vinyl Chloride	3.30	62	683417	9.499	ppbv	99
6) Bromomethane	3.53	94	443399	9.885	ppbv	92
7) Chloroethane	3.61	64	258019	9.739	ppbv	92
8) Dichlorotetrafluoroethane	3.23	85	1607753	9.851	ppbv	93
9) Propene	3.05	41	508159	10.389	ppbv	99
10) Heptane	8.26	43	2030900	10.774	ppbv	100
11) Trichlorofluoromethane	4.02	101	1796397	8.881	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1587239	9.436	ppbv	93
13) Ethanol	3.66	45	129604	9.271	ppbv	99
14) Bromoethene	3.80	108	563302	9.909	ppbv	99
15) Acetone	3.91	43	1193304	8.503	ppbv	99
16) 1,3-Butadiene	3.37	39	555895	10.767	ppbv	84
17) tert-Butyl alcohol	4.37	59	507831	12.303	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	832951	11.272	ppbv	97
19) Isopropyl Alcohol	4.04	45	862274	8.627	ppbv #	97
20) Methylene Chloride	4.42	84	718517	10.086	ppbv	97
21) Allyl Chloride	4.49	41	1347937	11.698	ppbv	98
22) trans-1,2-Dichloroethene	4.98	96	792701	10.459	ppbv	85
23) Vinyl Acetate	5.17	43	2708770	10.892	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1959074	10.035	ppbv	100
25) Ethyl Acetate	5.78	43	3247416	10.053	ppbv	99
26) Hexane	5.79	57	1526756	9.989	ppbv	99
27) Carbon Disulfide	4.63	76	2082228	11.230	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	2479576	11.288	ppbv	100
29) Chloroform	5.87	83	2578756	10.562	ppbv	99
30) Cyclohexane	7.26	84	1377521	11.386	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1534069	10.824	ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	2604983	10.499	ppbv	98
34) 2-Butanone	5.35	43	2097819	10.172	ppbv	100
35) Carbon Tetrachloride	7.15	117	2792240	10.226	ppbv	97
36) Benzene	7.02	78	3275220	10.483	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1989605	10.383	ppbv	98
38) Trichloroethene	7.98	130	1285378	11.114	ppbv	96
39) 1,2-Dichloropropane	7.75	63	1238155	10.263	ppbv	96
40) 1,4-Dioxane	7.97	88	433822	10.529	ppbv #	100
41) Tetrahydrofuran	6.16	42	1310235	11.401	ppbv	100
42) Bromodichloromethane	7.93	83	2807661	10.458	ppbv	99
43) Methyl Methacrylate	8.15	69	1299805	11.352	ppbv	97

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018

QLast Update : Thu Oct 25 05:15:43 2018

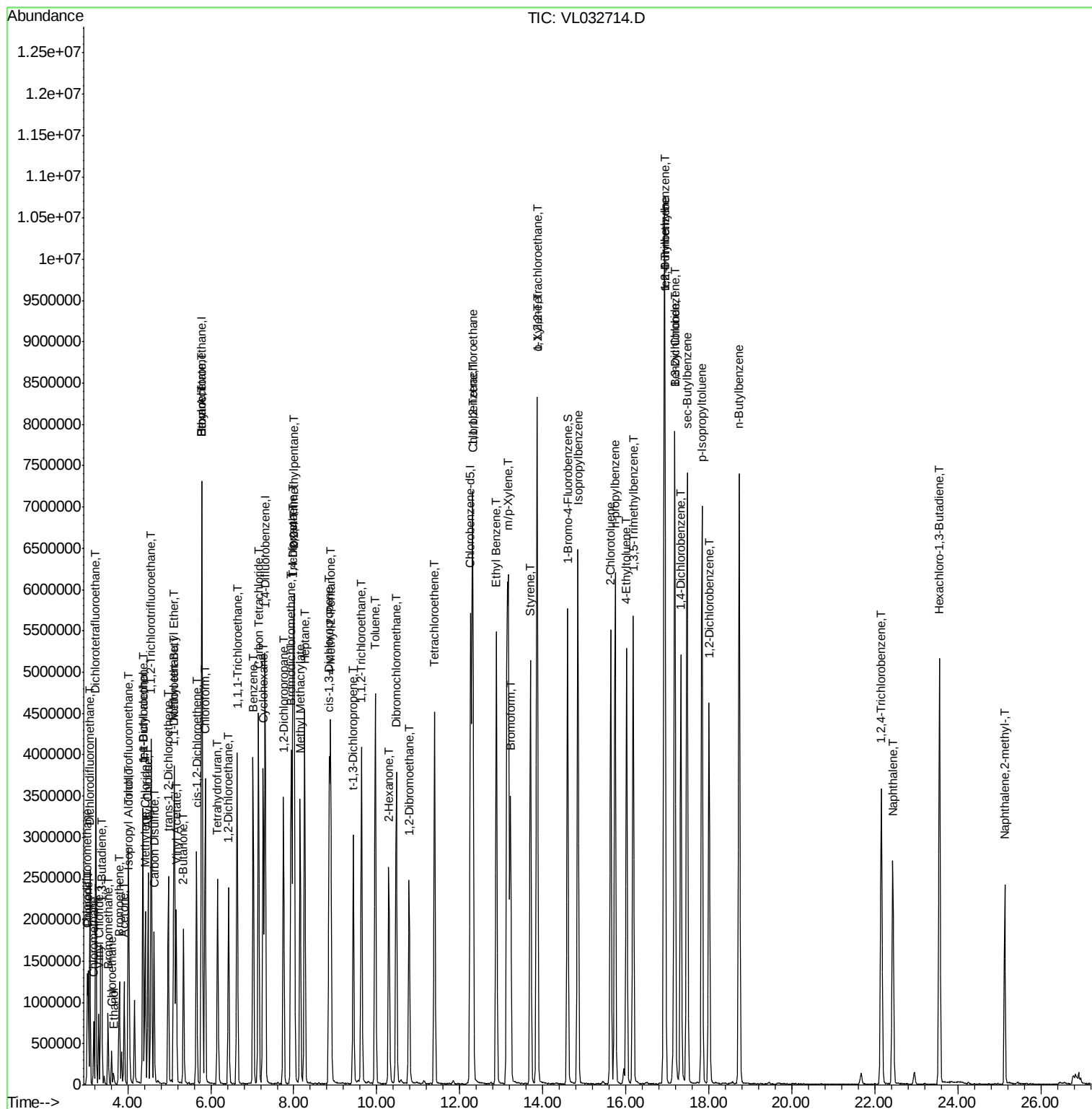
Response via : Initial Calibration

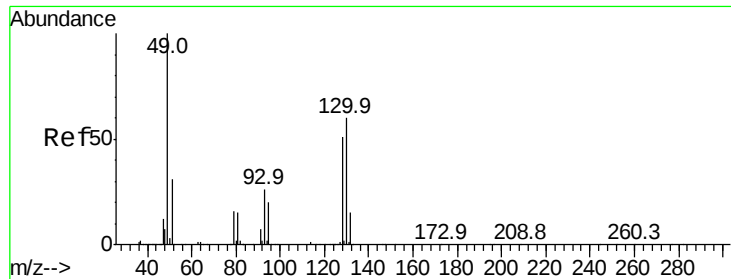
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5518161	10.347	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1821628	11.886	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	2205305	12.594	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	1440970	10.108	ppbv	97
48) Dibromochloromethane	10.47	129	2382846	10.028	ppbv	100
49) Bromoform	13.22	173	2054685	11.004	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3496756	11.444	ppbv	98
51) 2-Hexanone	10.29	43	2441793	10.751	ppbv #	98
52) Tetrachloroethene	11.39	164	1119081	10.274	ppbv	96
53) Toluene	9.96	91	3791810	10.588	ppbv	99
54) 1,2-Dibromoethane	10.78	107	2050185	10.582	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.30	131	1691419	9.745	ppbv	98
57) Chlorobenzene	12.32	112	2822541	9.669	ppbv	95
58) Ethyl Benzene	12.88	91	5093638	11.046	ppbv	99
59) m/p-Xylene	13.16	91	4760053	11.592	ppbv #	44
60) o-Xylene	13.87	91	4093269	10.334	ppbv	99
61) Styrene	13.70	104	3097826	11.664	ppbv	98
62) Isopropylbenzene	14.84	105	5807337	10.359	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2856694	9.205	ppbv	99
64) n-propylbenzene	15.74	120	1472267	10.567	ppbv	96
65) tert-Butylbenzene	16.92	119	5343738	11.193	ppbv	97
66) Benzyl Chloride	17.17	91	3241967	13.152	ppbv	100
67) sec-Butylbenzene	17.48	105	7304805	10.758	ppbv	99
69) p-Isopropyltoluene	17.83	119	5752648	10.691	ppbv	99
70) n-Butylbenzene	18.73	91	6347528	11.459	ppbv	99
71) 2-Chlorotoluene	15.63	91	4293633	10.777	ppbv	98
72) 4-Ethyltoluene	16.02	105	4685300	11.106	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4441375	10.809	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4813025	10.968	ppbv #	92
75) 1,3-Dichlorobenzene	17.18	146	2696117	10.685	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2655187	11.402	ppbv	98
77) 1,2-Dichlorobenzene	18.00	146	2416666	10.109	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	1280887	11.340	ppbv	100
79) Naphthalene	22.43	128	3452760	12.659	ppbv	99
80) Naphthalene,2-methyl-	25.13	142	1244380	18.762	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1698391	12.023	ppbv	100

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

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

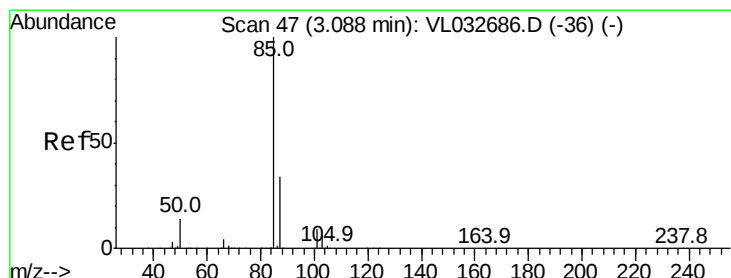
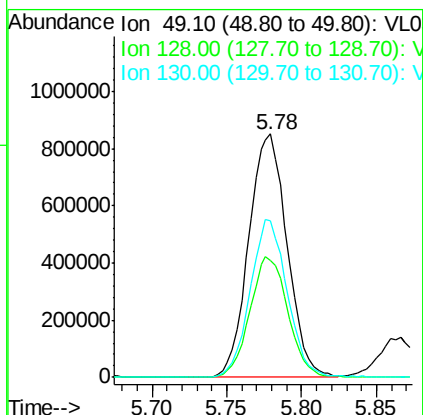
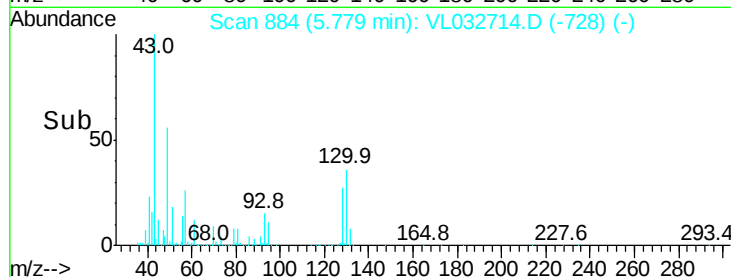
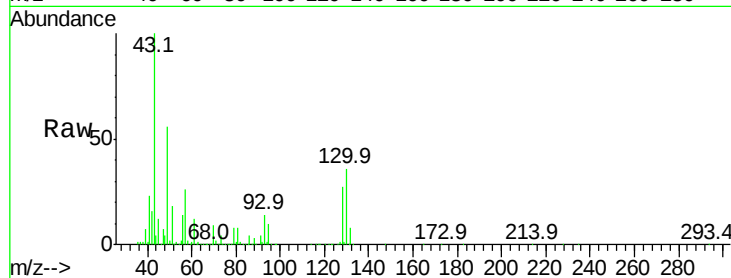
Tgt Ion: 49 Resp: 1519813

Ion Ratio Lower Upper

49 100

128 49.3 22.3 66.8

130 63.0 28.4 85.3



#2

Dichlorodifluoromethane

Concen: 11.834 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032714.D

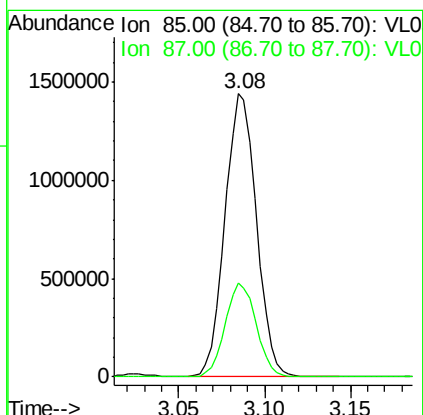
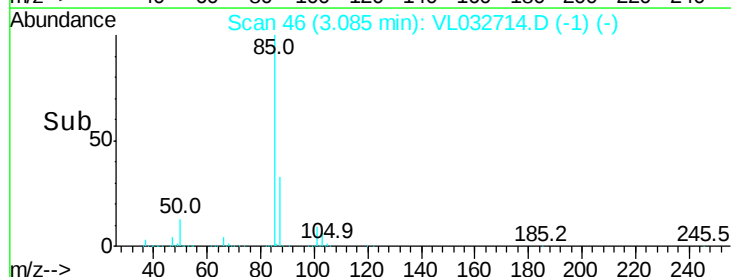
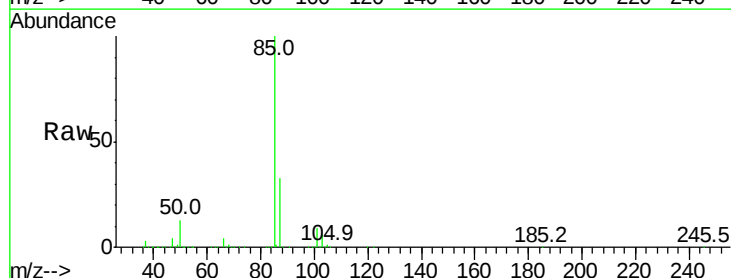
Acq: 7 Nov 2018 12:58

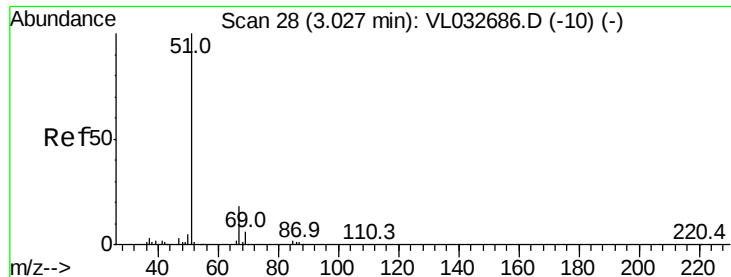
Tgt Ion: 85 Resp: 1832502

Ion Ratio Lower Upper

85 100

87 33.3 26.2 39.2





#3

Chlorodifluoromethane

Concen: 9.758 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

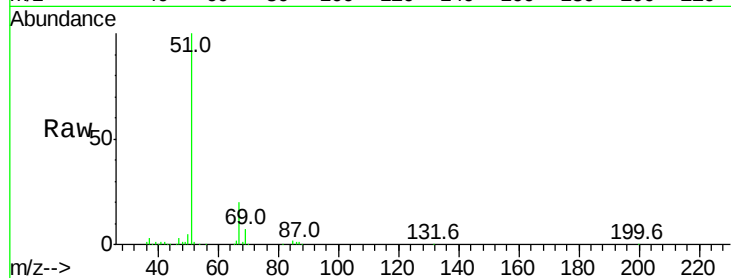
VL1107ABS01

Tgt Ion: 51 Resp: 1159770

Ion Ratio Lower Upper

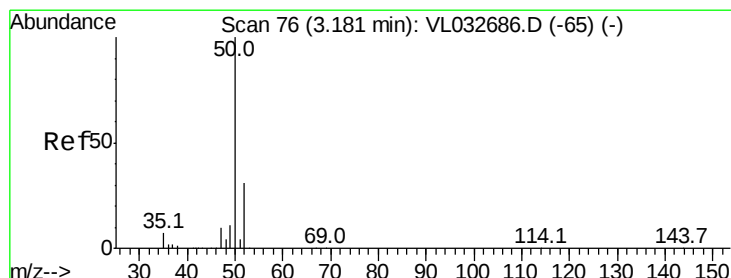
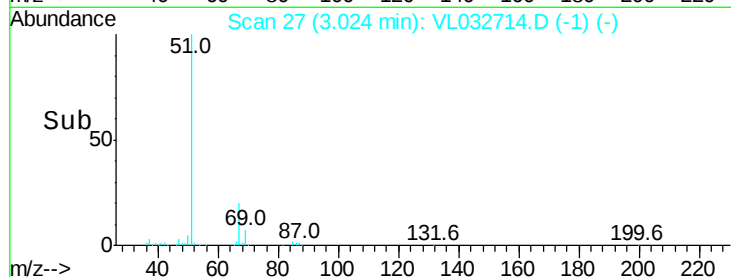
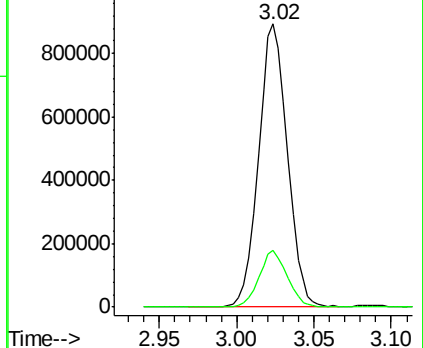
51 100

67 19.5 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.758 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032714.D

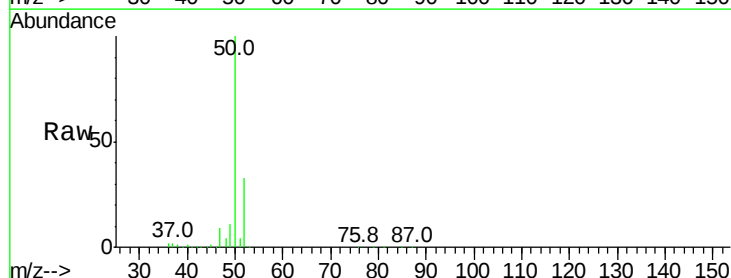
Acq: 7 Nov 2018 12:58

Tgt Ion: 50 Resp: 648148

Ion Ratio Lower Upper

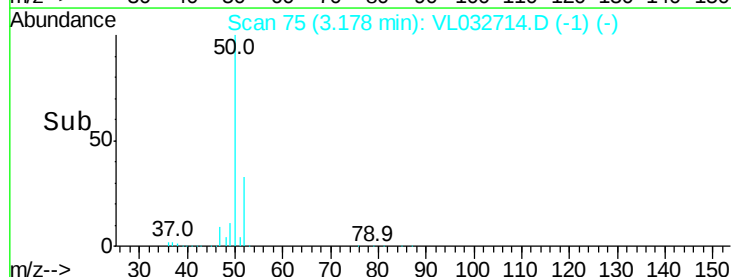
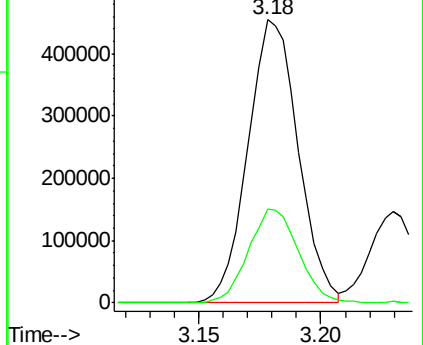
50 100

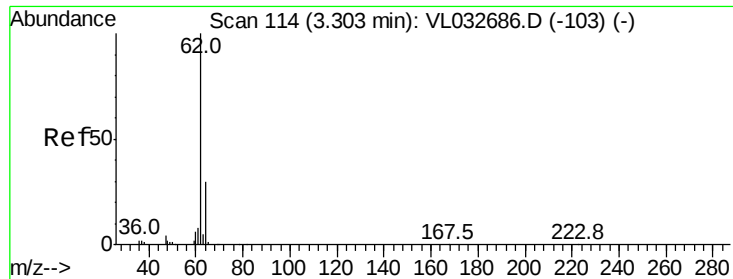
52 33.0 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.499 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

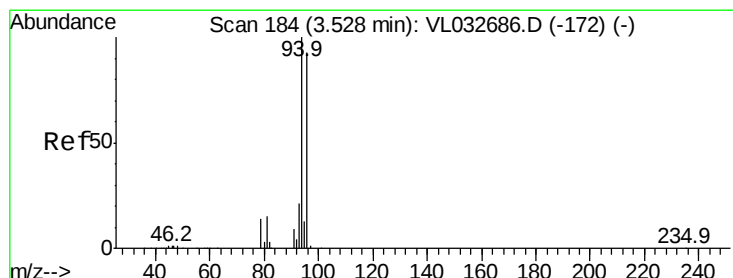
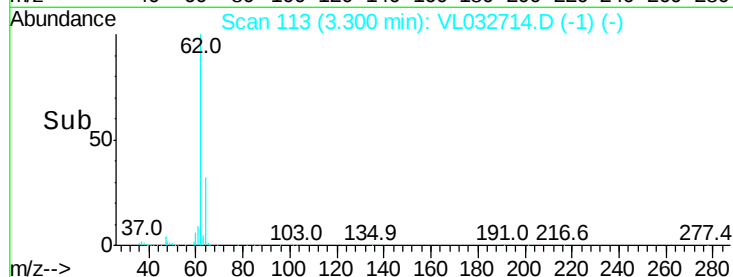
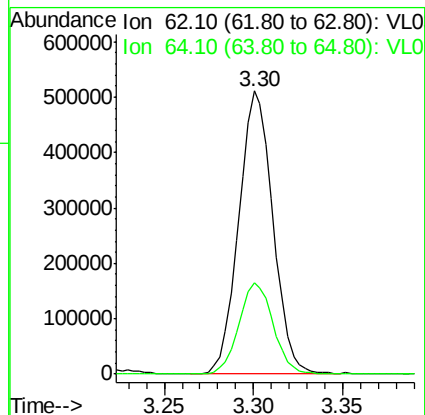
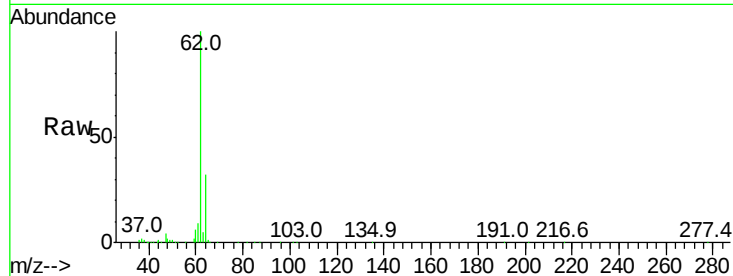
VL1107ABS01

Tgt Ion: 62 Resp: 683417

Ion Ratio Lower Upper

62 100

64 32.3 25.5 38.3



#6

Bromomethane

Concen: 9.885 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.00 min

Lab File: VL032714.D

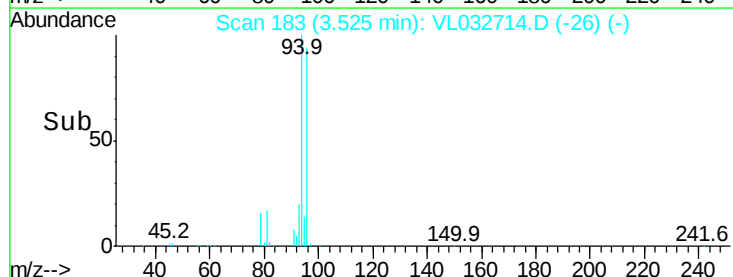
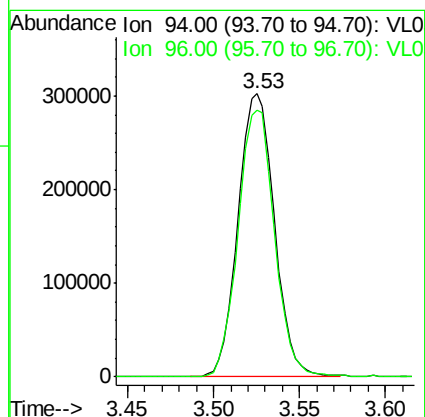
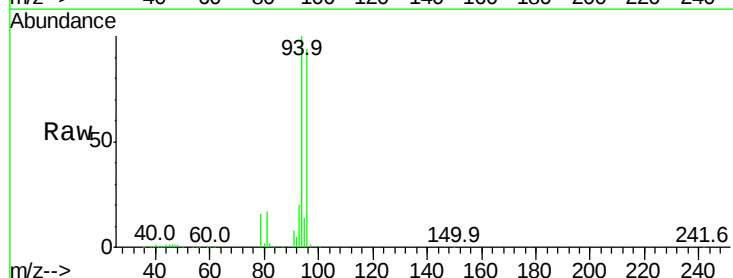
Acq: 7 Nov 2018 12:58

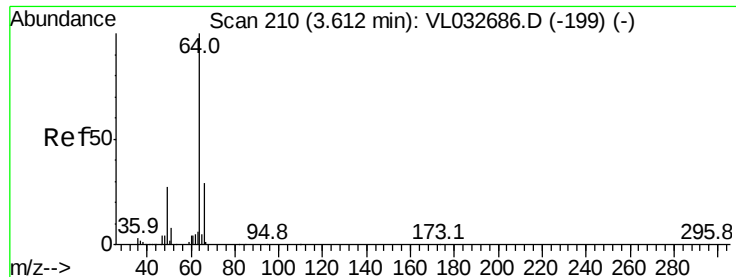
Tgt Ion: 94 Resp: 443399

Ion Ratio Lower Upper

94 100

96 94.3 69.8 104.8





#7

Chloroethane

Concen: 9.739 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

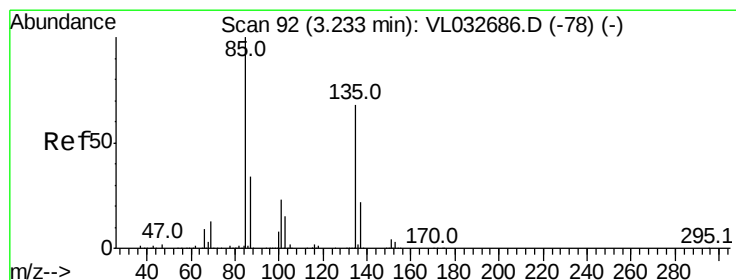
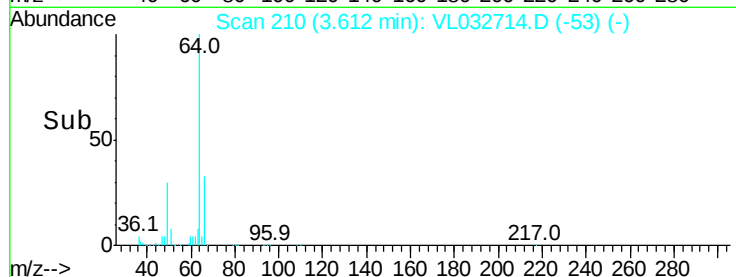
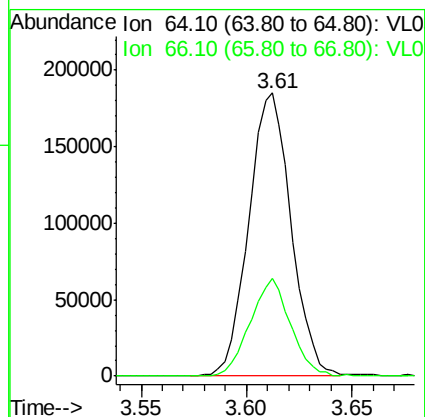
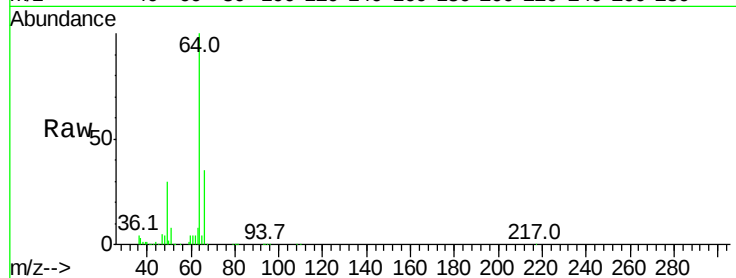
VL1107ABS01

Tgt Ion: 64 Resp: 258019

Ion Ratio Lower Upper

64 100

66 34.7 24.4 36.6



#8

Dichlorotetrafluoroethane

Concen: 9.851 ppbv

RT: 3.23 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL032714.D

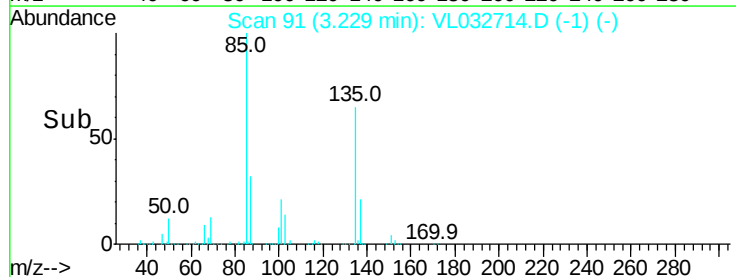
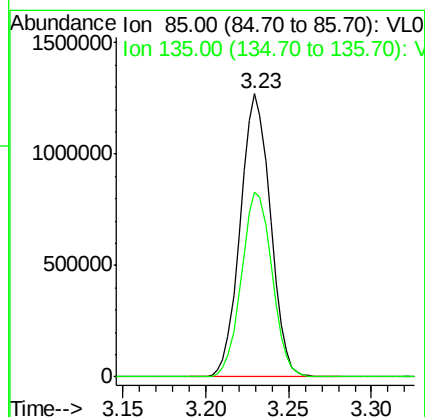
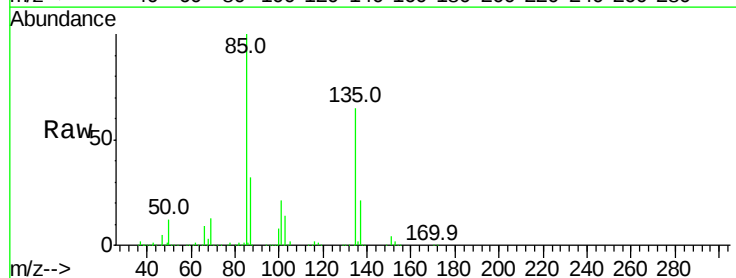
Acq: 7 Nov 2018 12:58

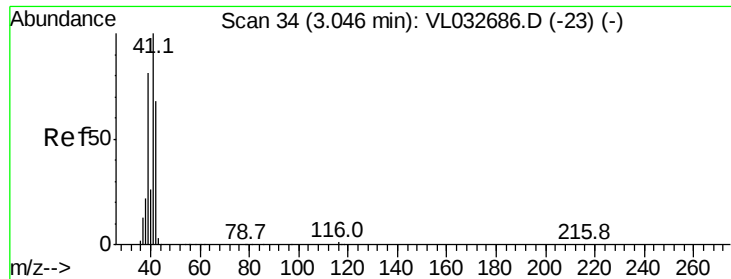
Tgt Ion: 85 Resp: 1607753

Ion Ratio Lower Upper

85 100

135 66.5 49.0 73.4





#9

Propene

Concen: 10.389 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

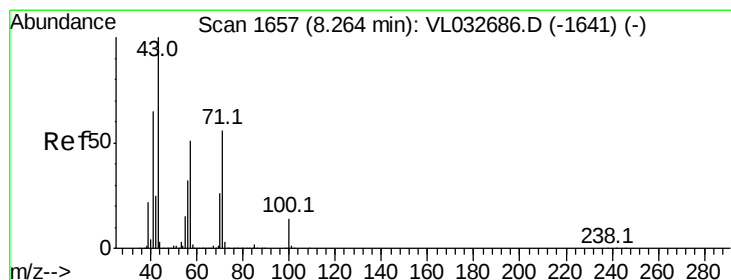
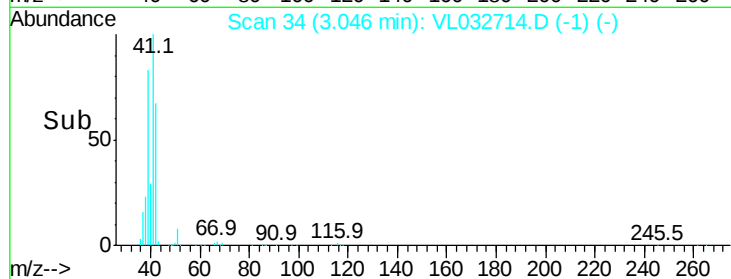
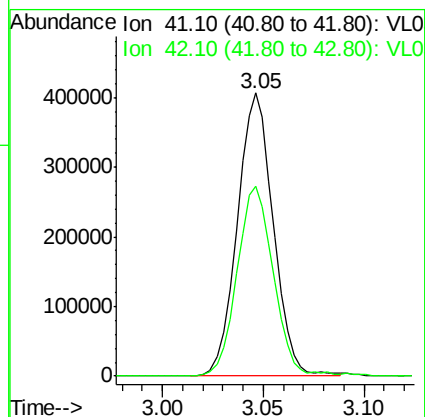
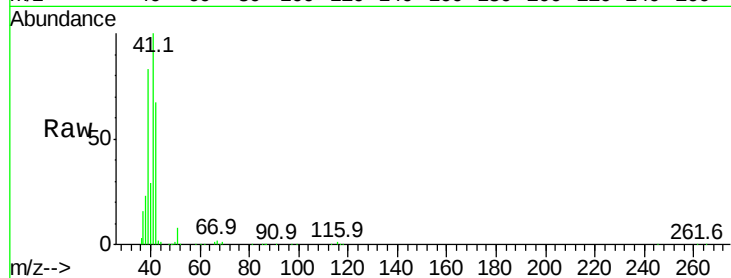
VL1107ABS01

Tgt Ion: 41 Resp: 508159

Ion Ratio Lower Upper

41 100

42 68.2 55.4 83.0



#10

Heptane

Concen: 10.774 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL032714.D

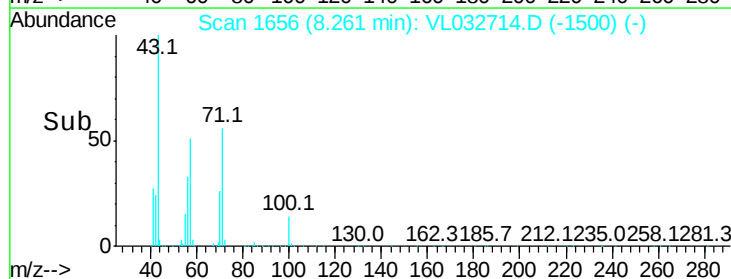
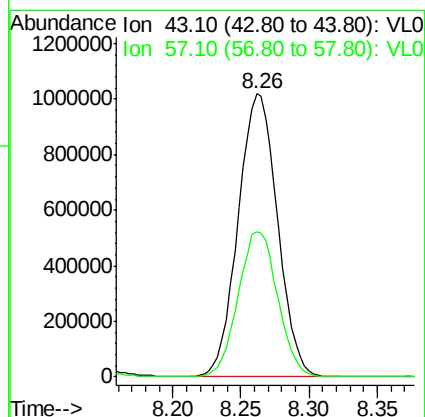
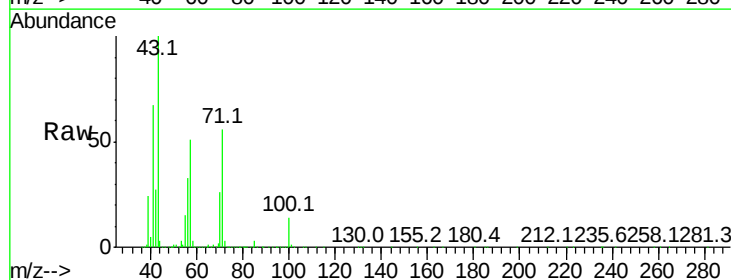
Acq: 7 Nov 2018 12:58

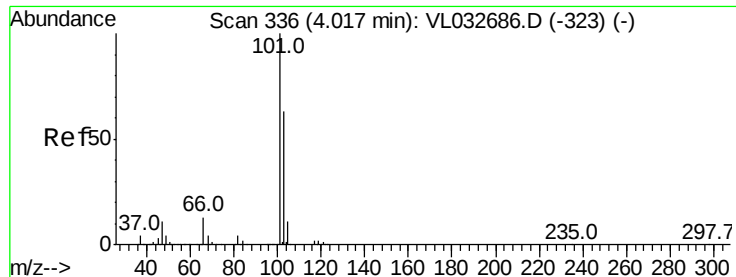
Tgt Ion: 43 Resp: 2030900

Ion Ratio Lower Upper

43 100

57 51.8 41.5 62.3





#11

Trichlorofluoromethane

Concen: 8.881 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

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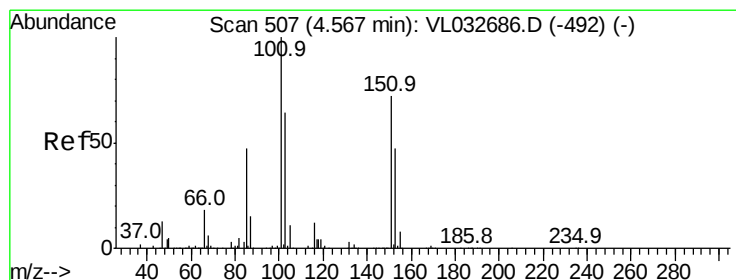
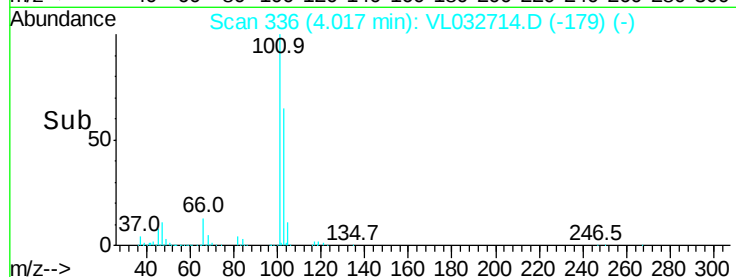
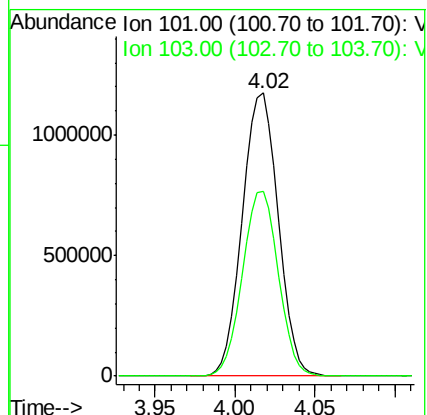
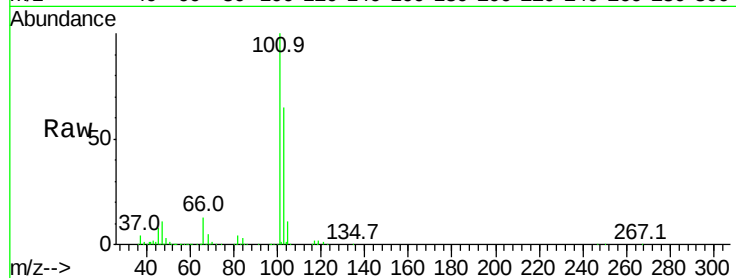
VL1107ABS01

Tgt Ion:101 Resp: 1796397

Ion Ratio Lower Upper

101 100

103 65.5 51.4 77.2



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.436 ppbv

RT: 4.56 min Scan# 506

Delta R.T. 0.00 min

Lab File: VL032714.D

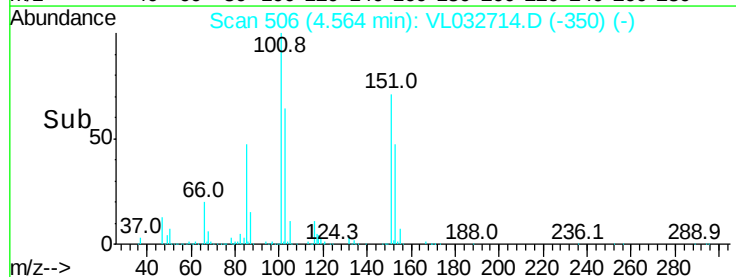
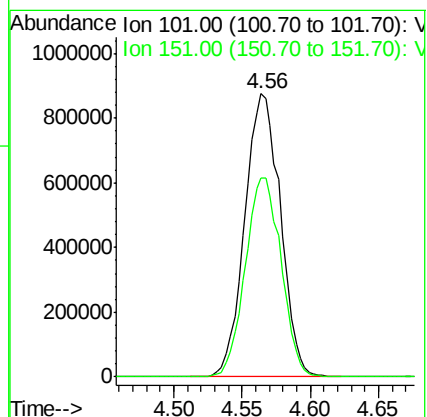
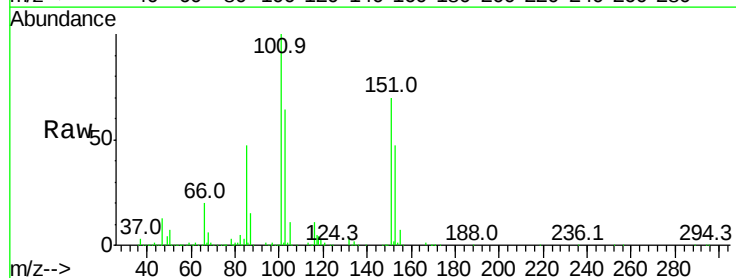
Acq: 7 Nov 2018 12:58

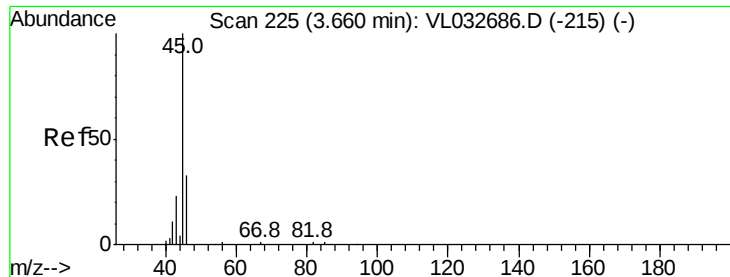
Tgt Ion:101 Resp: 1587239

Ion Ratio Lower Upper

101 100

151 70.9 52.3 78.5





#13

Ethanol

Concen: 9.271 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

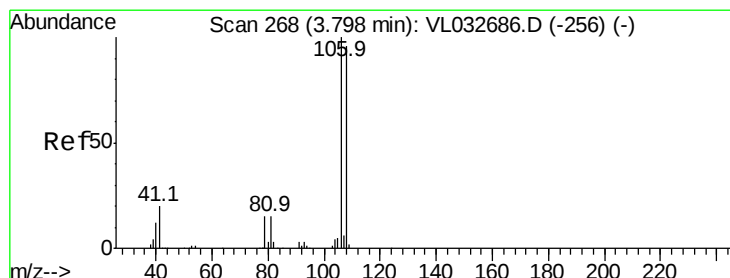
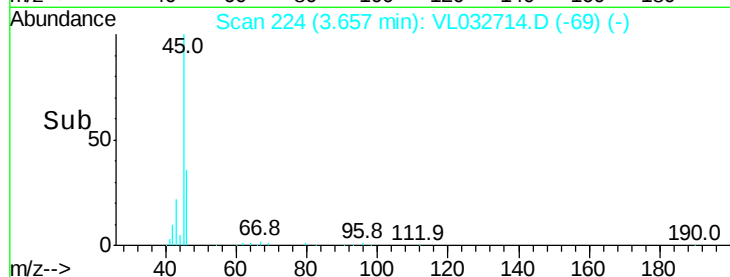
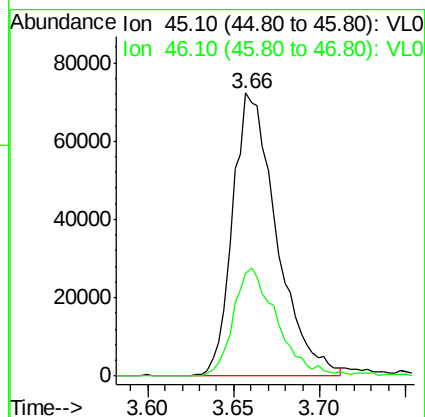
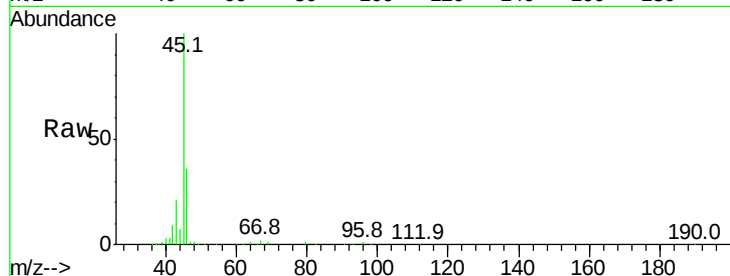
VL1107ABS01

Tgt Ion: 45 Resp: 129604

Ion Ratio Lower Upper

45 100

46 39.1 15.4 61.8



#14

Bromoethene

Concen: 9.909 ppbv

RT: 3.80 min Scan# 268

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

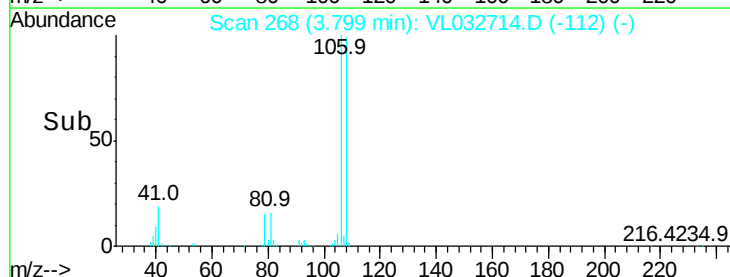
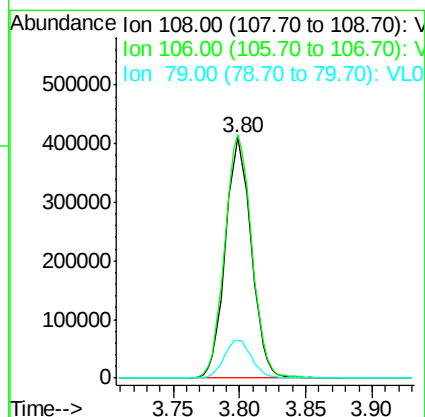
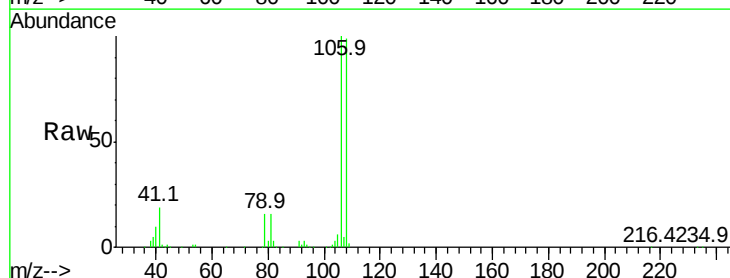
Tgt Ion: 108 Resp: 563302

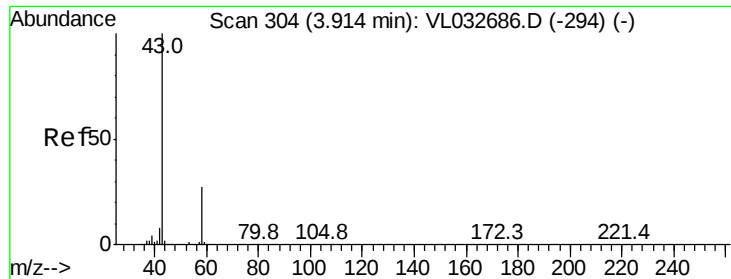
Ion Ratio Lower Upper

108 100

106 105.0 85.0 127.4

79 16.9 13.7 20.5





#15

Acetone

Concen: 8.503 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

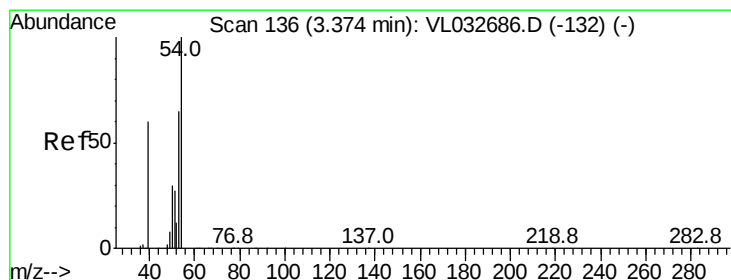
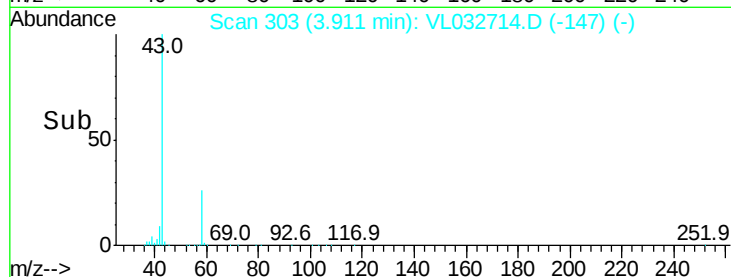
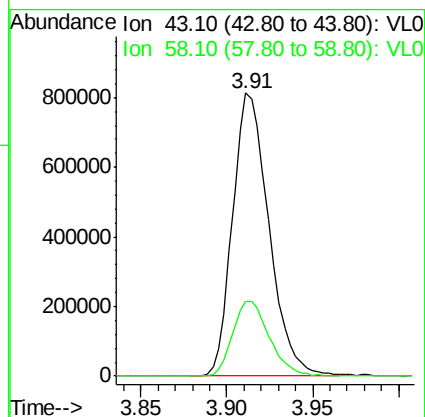
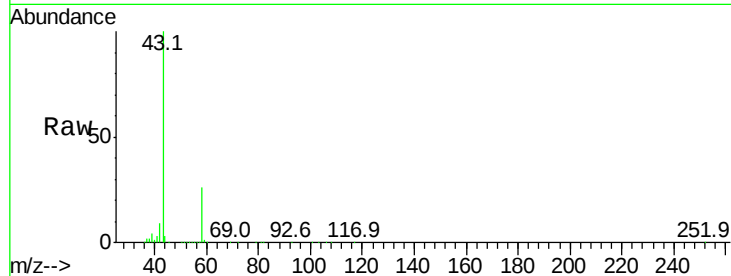
VL1107ABS01

Tgt Ion: 43 Resp: 1193304

Ion Ratio Lower Upper

43 100

58 27.0 22.1 33.1



#16

1,3-Butadiene

Concen: 10.767 ppbv

RT: 3.37 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL032714.D

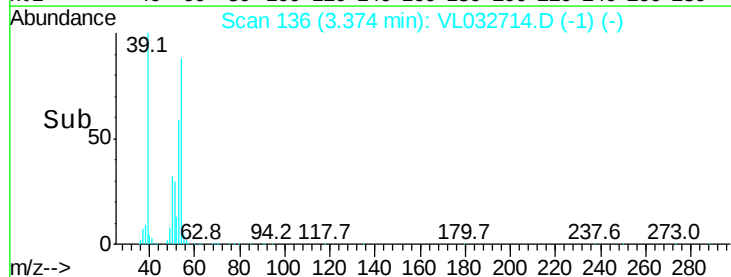
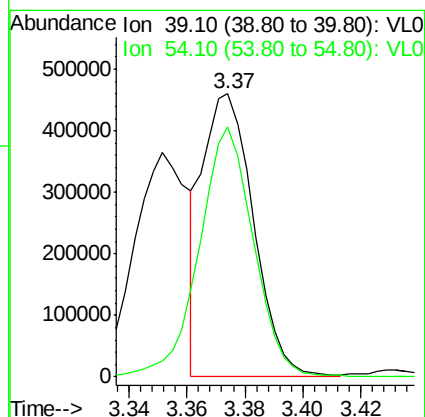
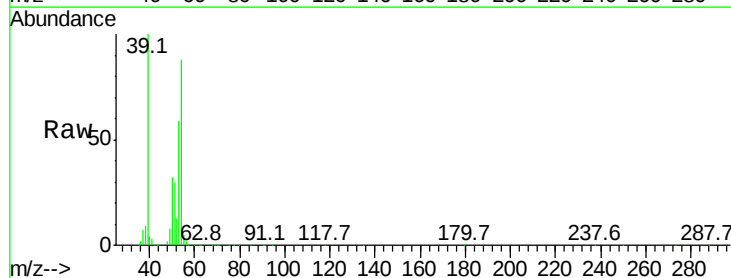
Acq: 7 Nov 2018 12:58

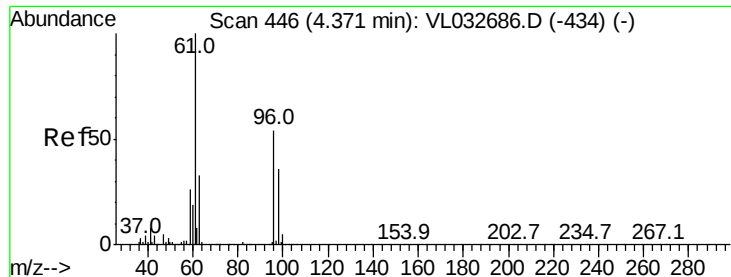
Tgt Ion: 39 Resp: 555895

Ion Ratio Lower Upper

39 100

54 95.9 90.4 135.6





#17

tert-Butyl alcohol

Concen: 12.303 ppbv

RT: 4.37 min Scan# 446

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

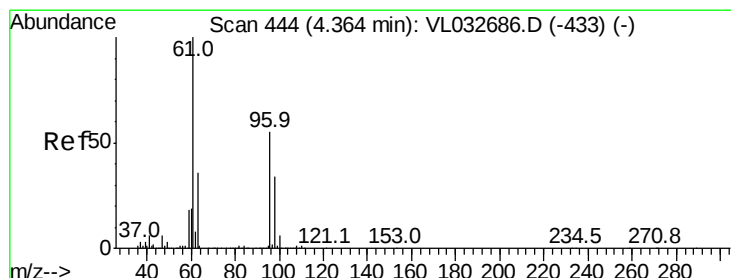
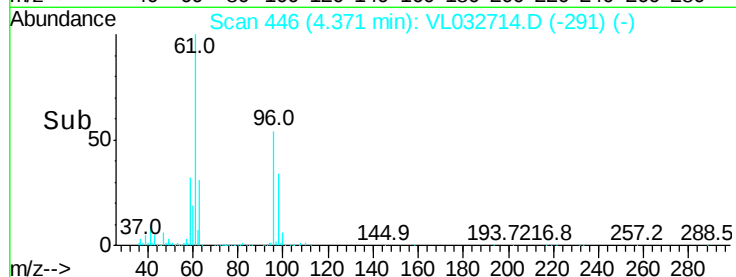
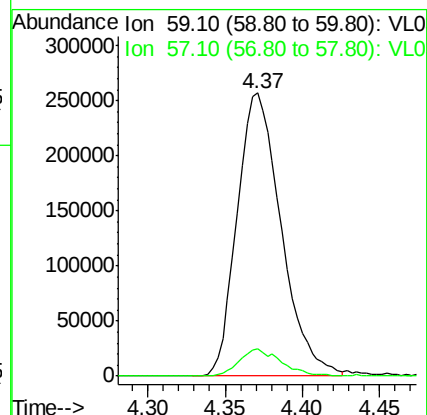
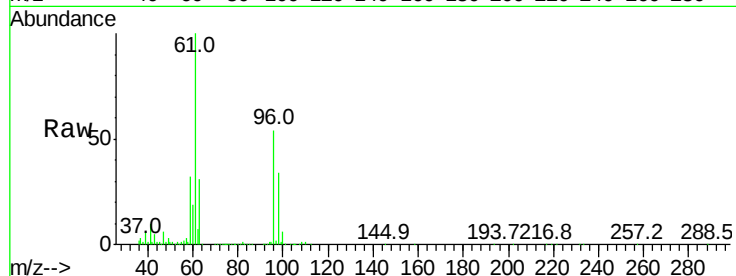
VL1107ABS01

Tgt Ion: 59 Resp: 507831

Ion Ratio Lower Upper

59 100

57 9.3 0.0 0.0#



#18

1,1-Dichloroethene

Concen: 11.272 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

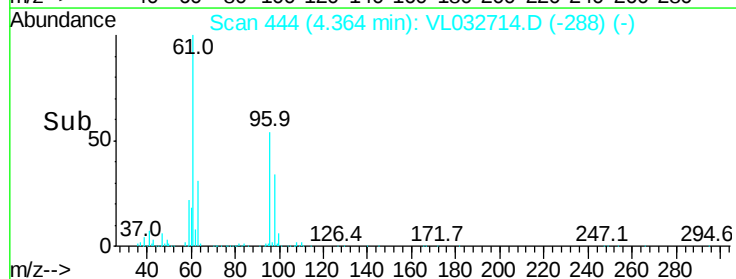
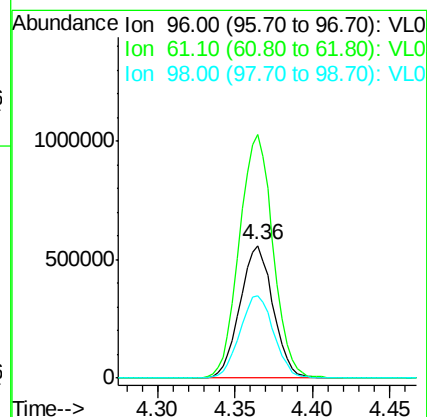
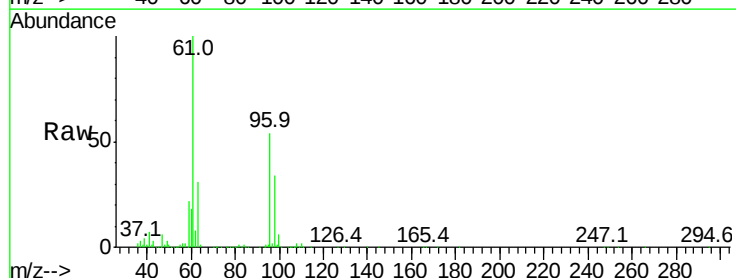
Tgt Ion: 96 Resp: 832951

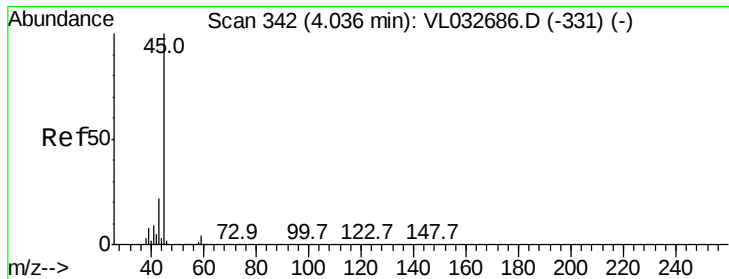
Ion Ratio Lower Upper

96 100

61 184.0 151.6 227.4

98 62.7 50.6 75.8





#19

Isopropyl Alcohol

Concen: 8.627 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

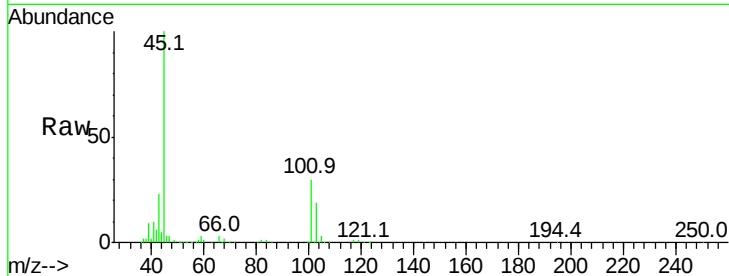
VL1107ABS01

Tgt Ion: 45 Resp: 862274

Ion Ratio Lower Upper

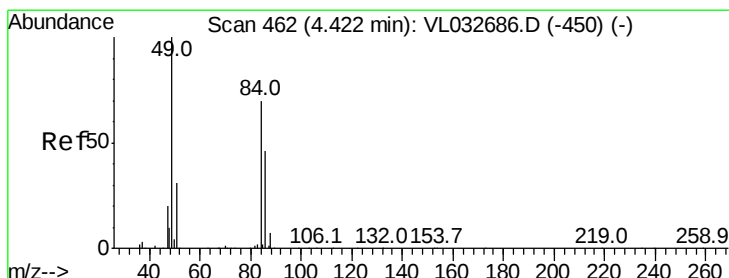
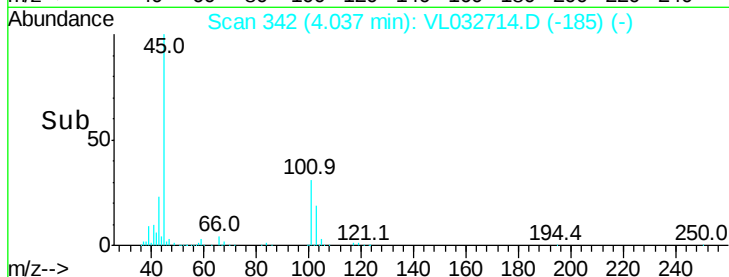
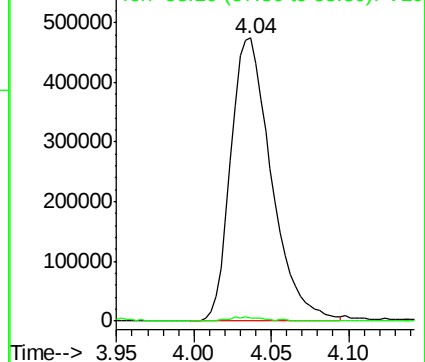
45 100

58 1.4 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.086 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion: 84 Resp: 718517

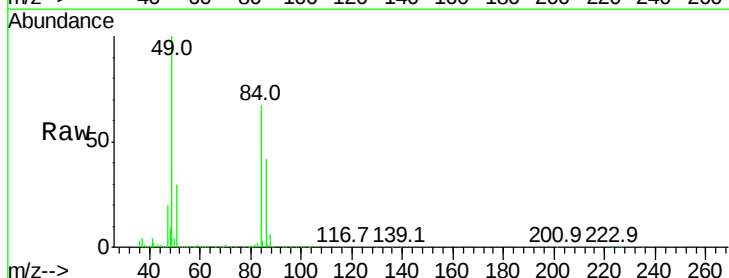
Ion Ratio Lower Upper

84 100

49 147.3 113.5 170.3

51 44.3 34.8 52.2

86 62.0 47.9 71.9

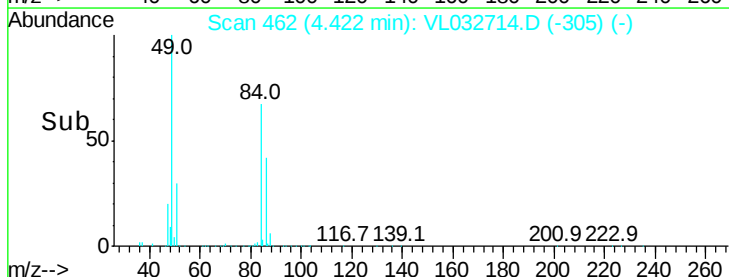
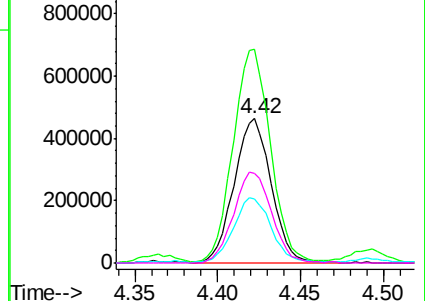


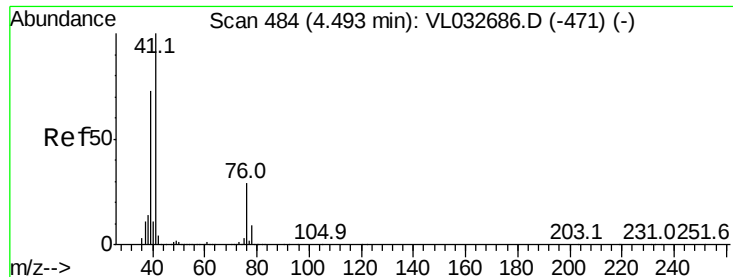
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allyl Chloride

Concen: 11.698 ppbv

RT: 4.49 min Scan# 483

Delta R.T. 0.00 min

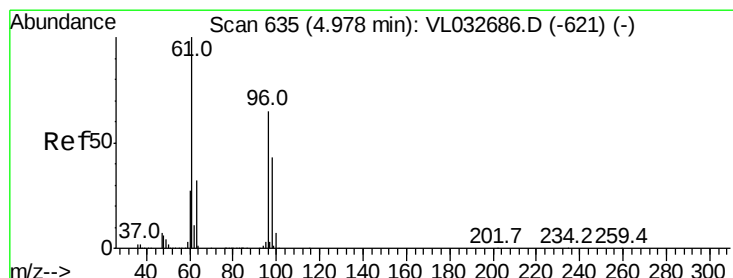
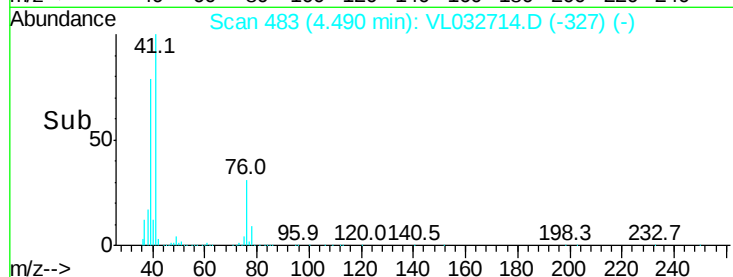
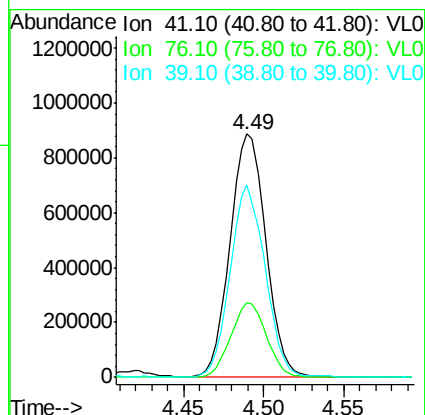
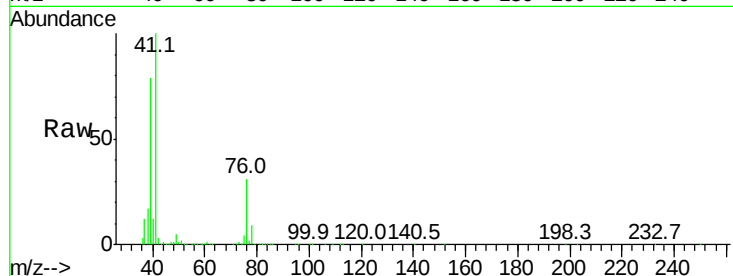
Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tgt Ion: 41 Resp: 1347937

Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.3	36.5
39	77.4	60.3	90.5



#22

trans-1,2-Dichloroethene

Concen: 10.459 ppbv

RT: 4.98 min Scan# 634

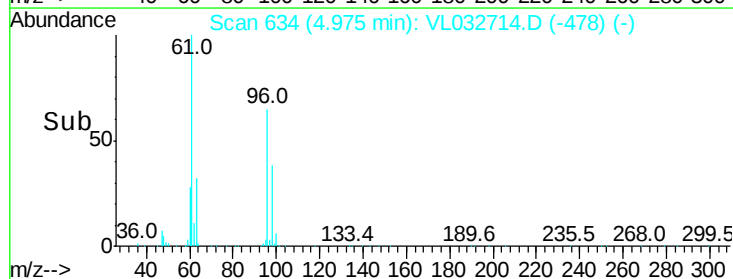
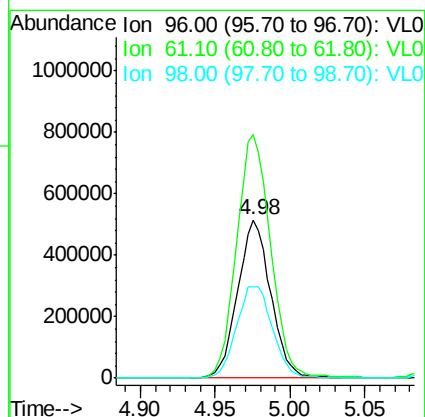
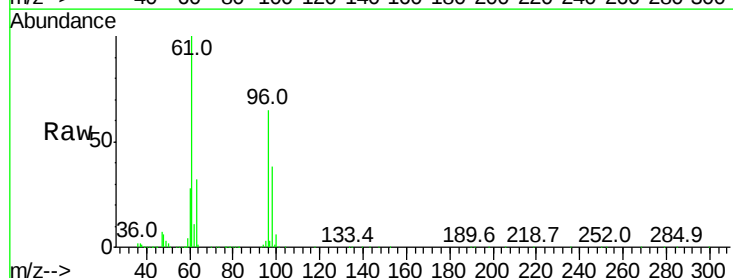
Delta R.T. 0.00 min

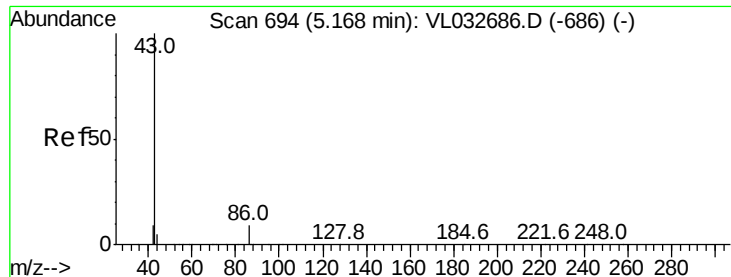
Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion: 96 Resp: 792701

Ion	Ratio	Lower	Upper
96	100		
61	154.1	140.4	210.6
98	58.0	55.0	82.6





#23

Vinyl Acetate

Concen: 10.892 ppbv

RT: 5.17 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tgt Ion: 43 Resp: 2708770

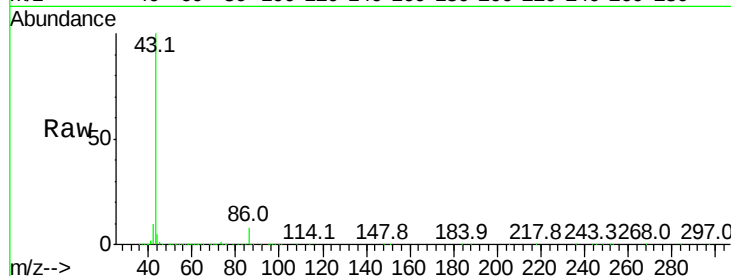
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.1	9.1
42	9.7	7.4	11.2
44	5.0	4.2	6.2

43 100

86 8.1 6.1 9.1

42 9.7 7.4 11.2

44 5.0 4.2 6.2



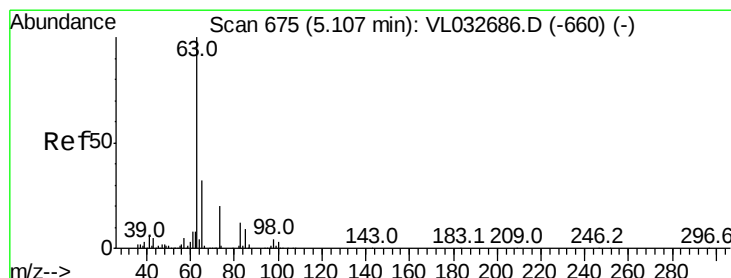
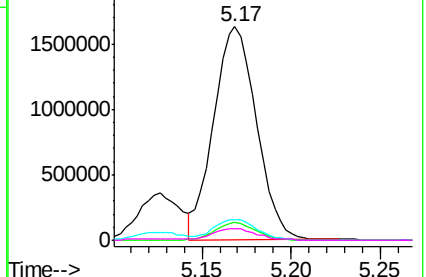
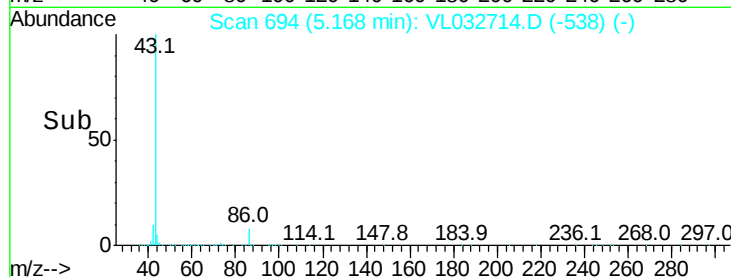
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

Time-->



#24

1,1-Dichloroethane

Concen: 10.035 ppbv

RT: 5.10 min Scan# 674

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

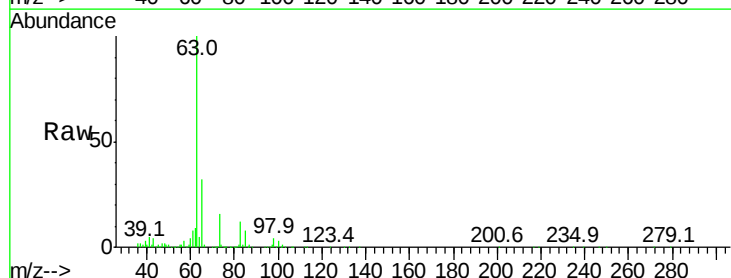
Tgt Ion: 63 Resp: 1959074

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.3
100	2.7	1.2	3.6

63 100

98 4.3 2.1 6.3

100 2.7 1.2 3.6

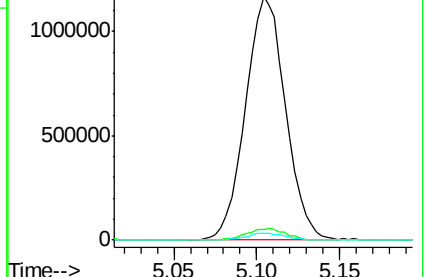
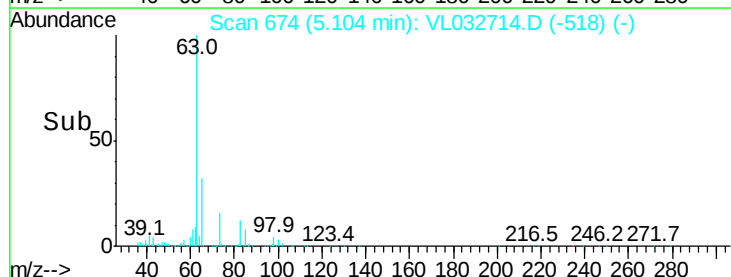


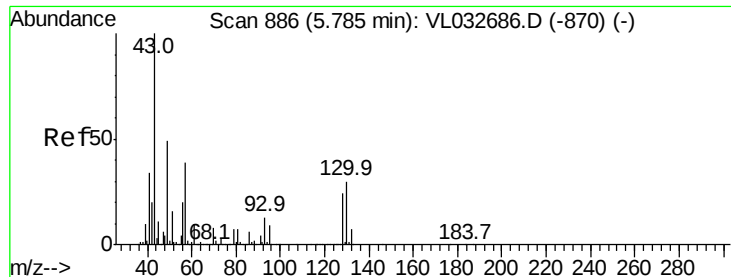
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

Time-->



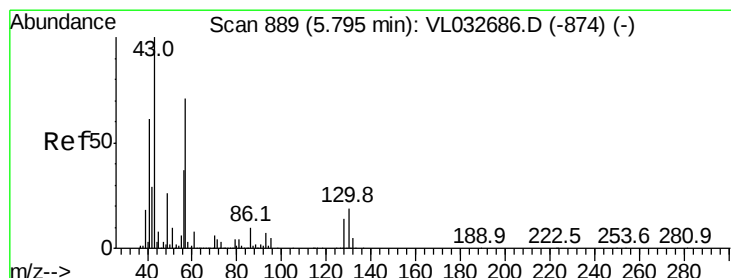
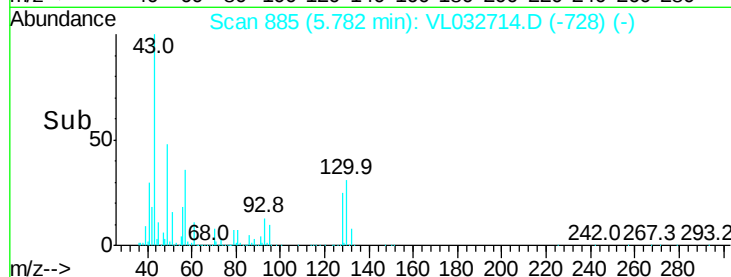
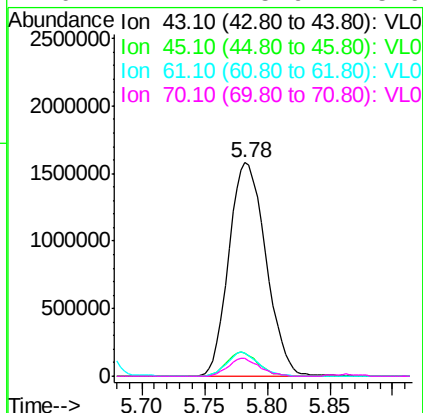
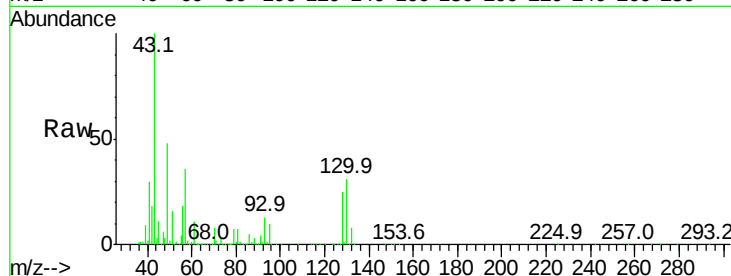


#25
Ethyl Acetate
Concen: 10.053 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tgt Ion: 43 Resp: 3247416

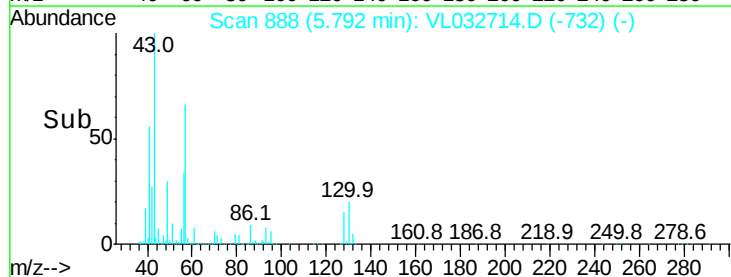
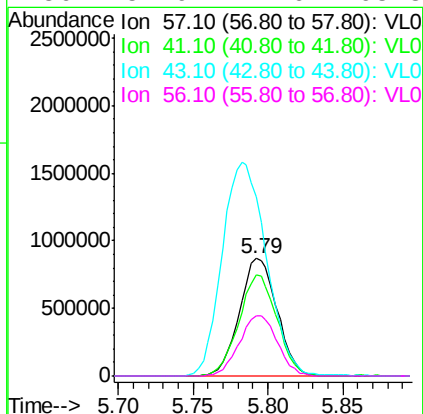
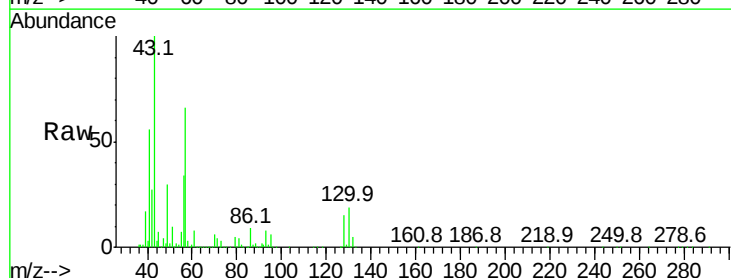
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.3	8.0	12.0
70	7.2	5.9	8.9

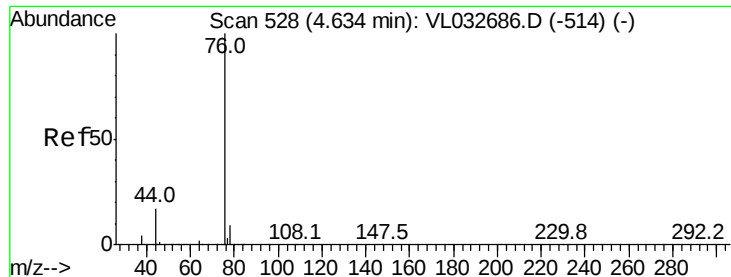


#26
Hexane
Concen: 9.989 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 57 Resp: 1526756

Ion	Ratio	Lower	Upper
57	100		
41	86.6	67.4	101.0
43	213.8	171.9	257.9
56	51.9	42.6	63.8





#27

Carbon Disulfide

Concen: 11.230 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

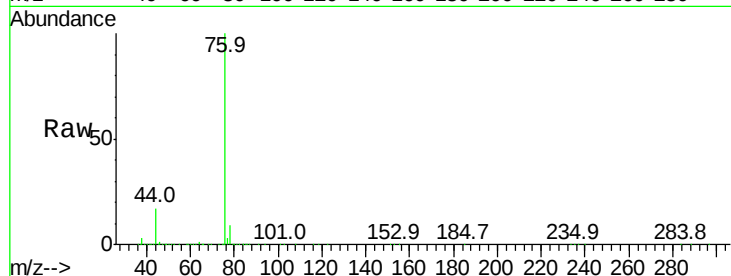
Tgt Ion: 76 Resp: 2082228

Ion Ratio Lower Upper

76 100

44 18.3 13.7 20.5

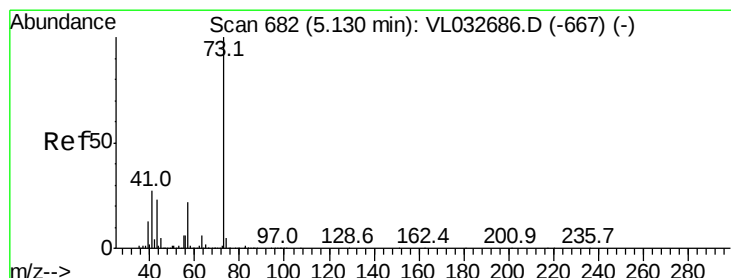
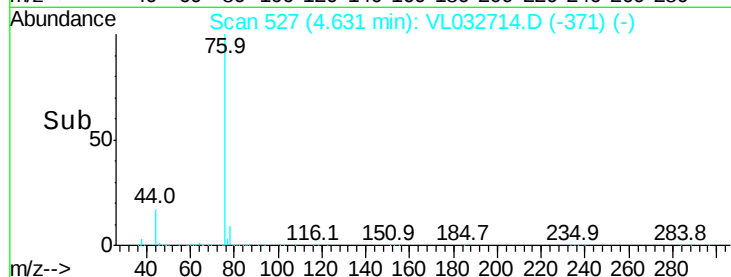
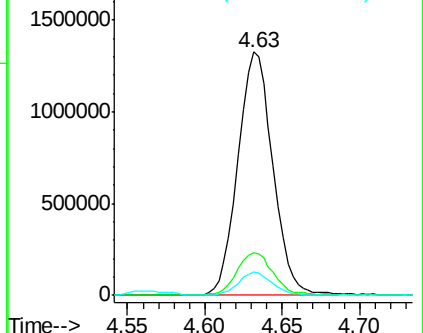
78 9.0 7.4 11.2



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: 11.288 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL032714.D

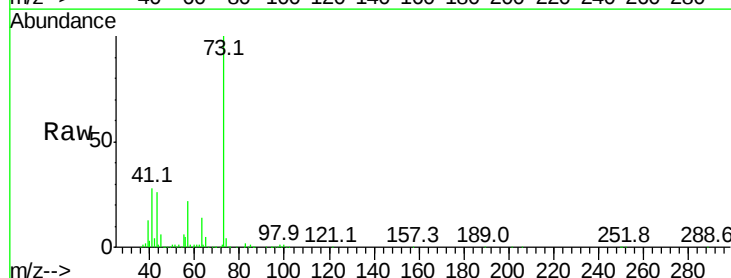
Acq: 7 Nov 2018 12:58

Tgt Ion: 73 Resp: 2479576

Ion Ratio Lower Upper

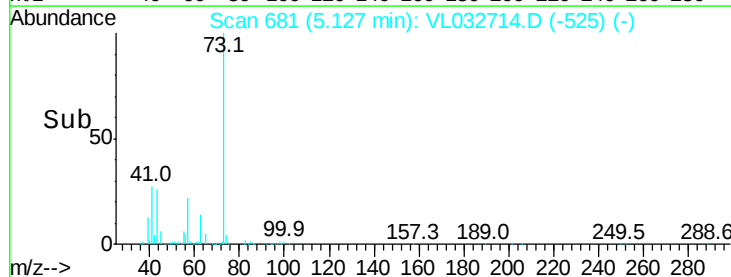
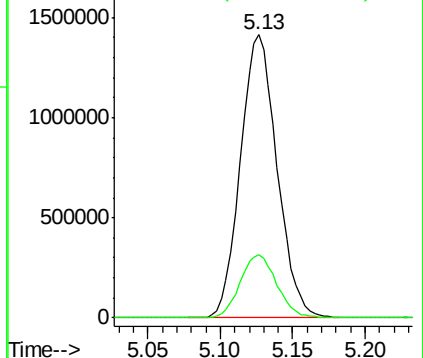
73 100

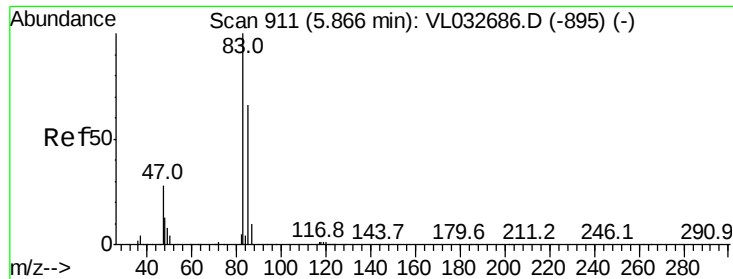
57 22.5 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.562 ppbv

RT: 5.87 min Scan# 911

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

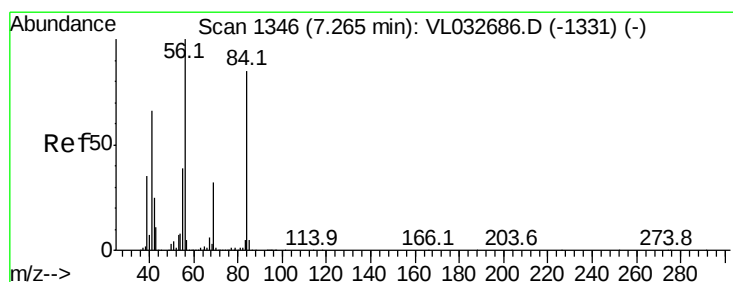
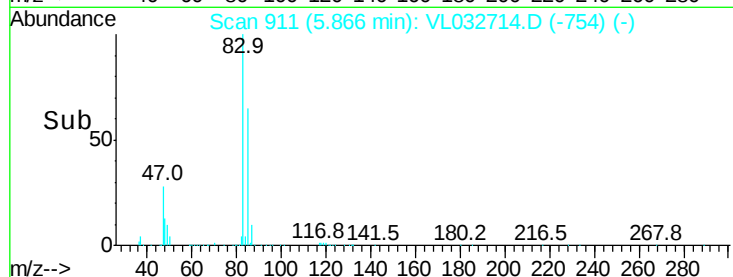
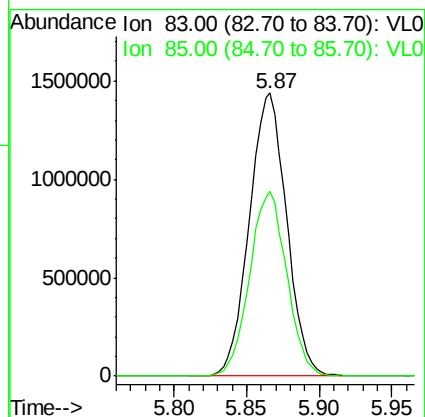
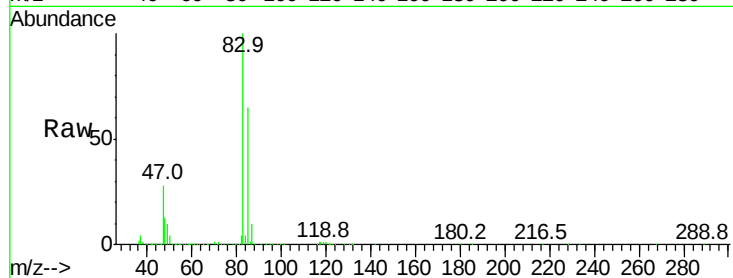
VL1107ABS01

Tgt Ion: 83 Resp: 2578756

Ion Ratio Lower Upper

83 100

85 65.2 53.0 79.6



#30

Cyclohexane

Concen: 11.386 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

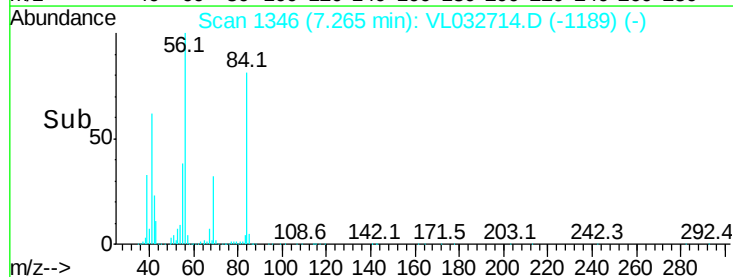
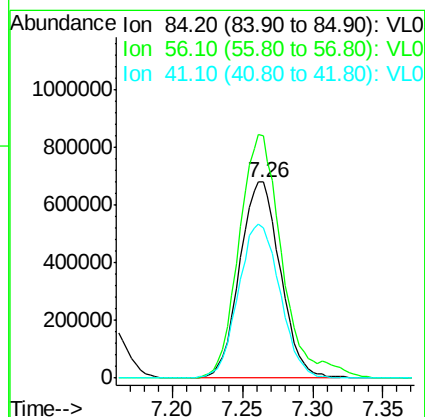
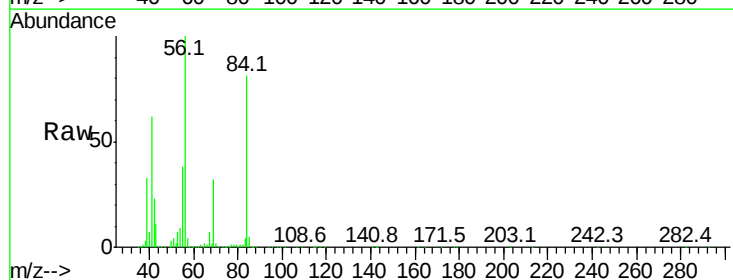
Tgt Ion: 84 Resp: 1377521

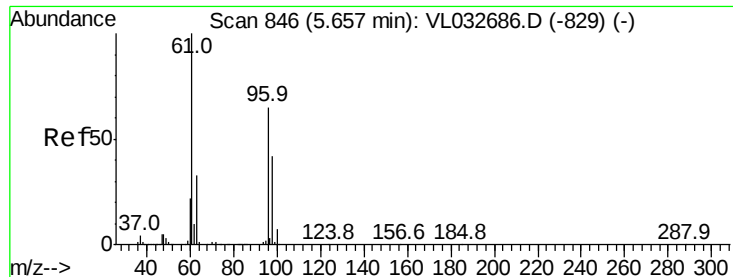
Ion Ratio Lower Upper

84 100

56 130.9 108.3 162.5

41 80.5 64.8 97.2





#31

cis-1,2-Dichloroethene

Concen: 10.824 ppbv

RT: 5.66 min Scan# 846

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

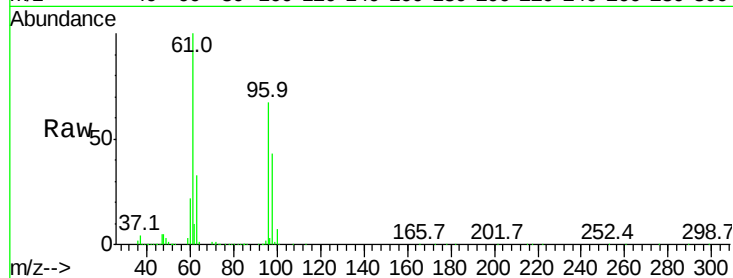
Tgt Ion: 61 Resp: 1534069

Ion Ratio Lower Upper

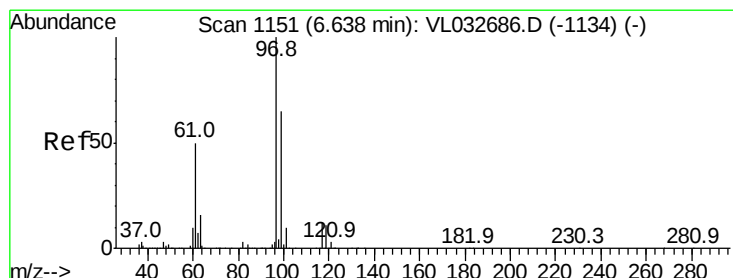
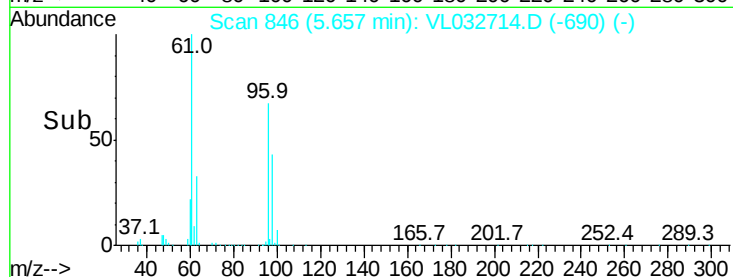
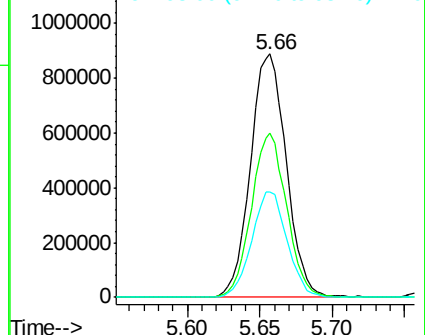
61 100

96 67.4 51.8 77.6

98 43.1 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: 10.499 ppbv

RT: 6.63 min Scan# 1150

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

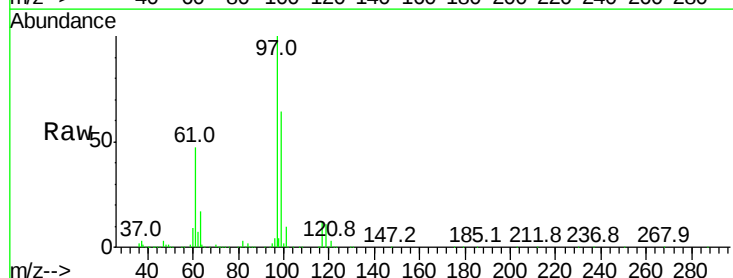
Tgt Ion: 97 Resp: 2604983

Ion Ratio Lower Upper

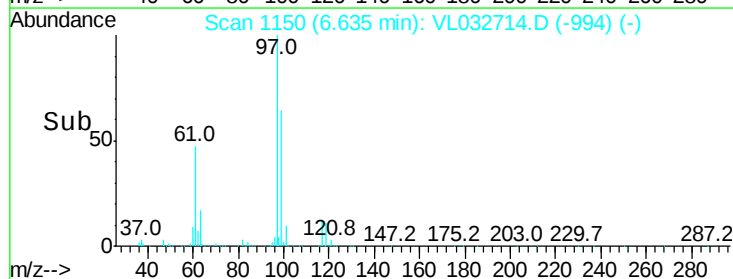
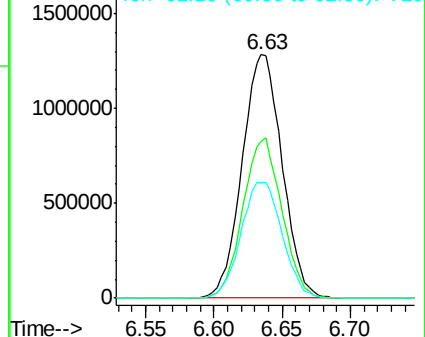
97 100

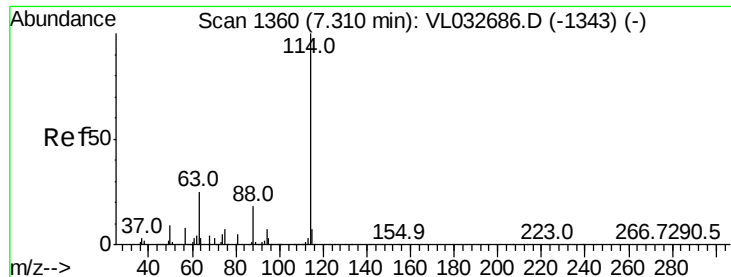
99 64.1 52.0 78.0

61 49.1 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# 1360

Delta R.T. 0.00 min

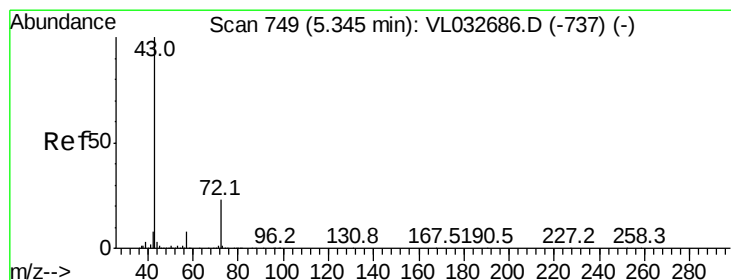
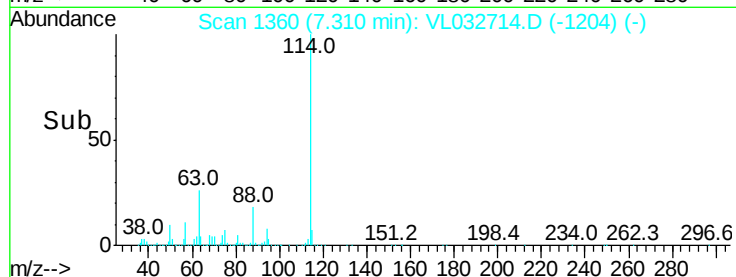
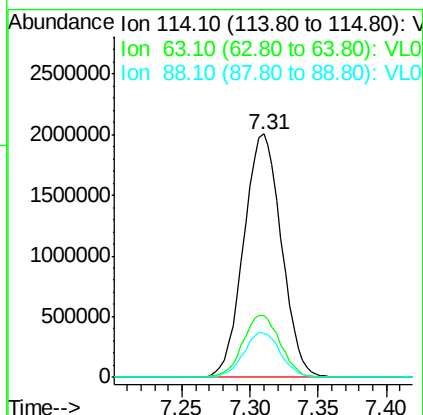
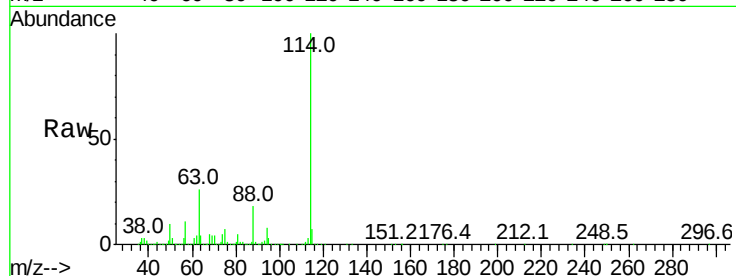
Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tgt Ion: 114 Resp: 3847275

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.7	32.5
88	18.0	14.9	22.3



#34

2-Butanone

Concen: 10.172 ppbv

RT: 5.35 min Scan# 749

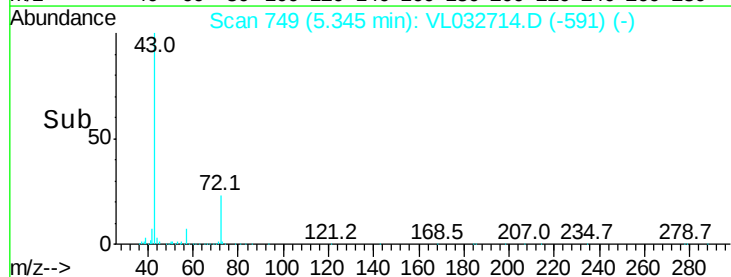
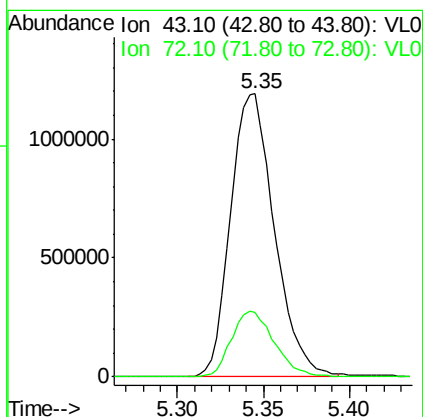
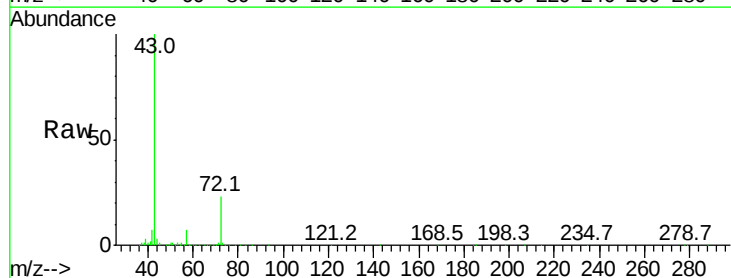
Delta R.T. 0.01 min

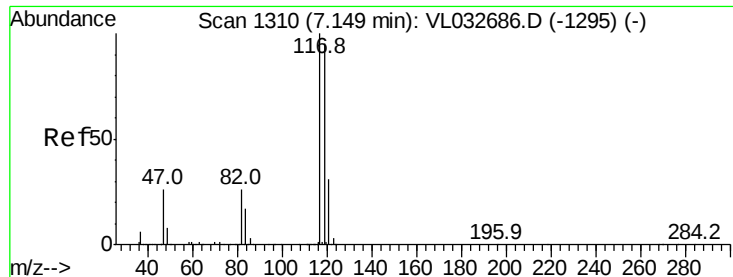
Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion: 43 Resp: 2097819

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.6	27.8





#35

Carbon Tetrachloride

Concen: 10.226 ppbv

RT: 7.15 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

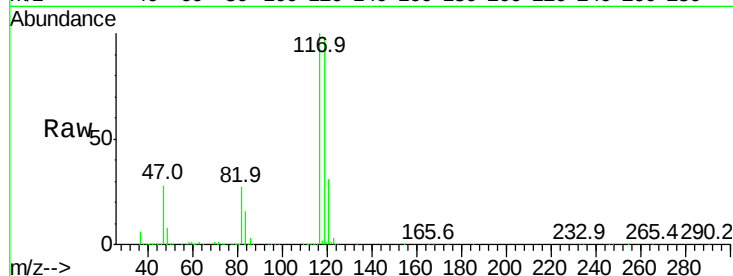
Tgt Ion:117 Resp: 2792240

Ion Ratio Lower Upper

117 100

119 98.4 75.7 113.5

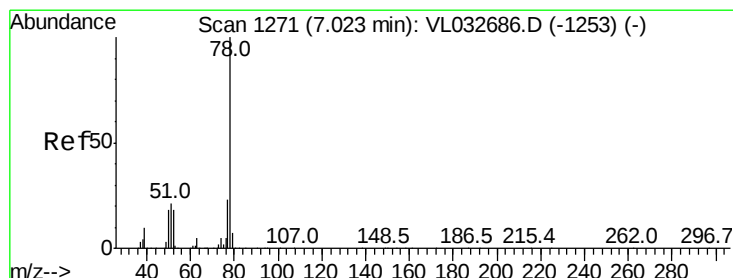
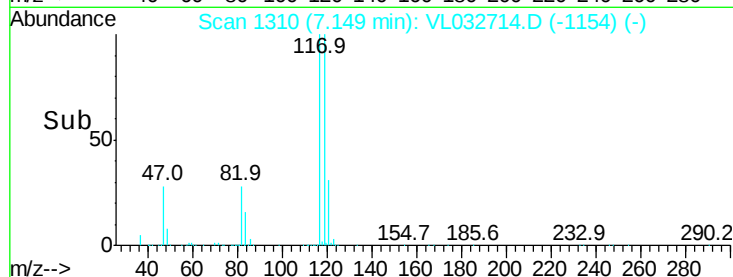
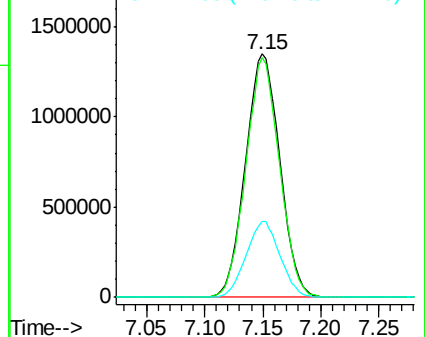
121 31.0 24.7 37.1



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: 10.483 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

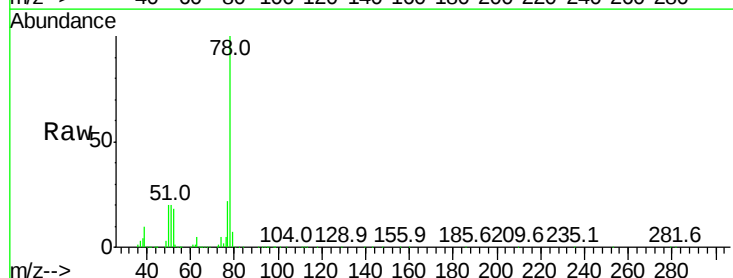
Tgt Ion: 78 Resp: 3275220

Ion Ratio Lower Upper

78 100

77 22.3 18.1 27.1

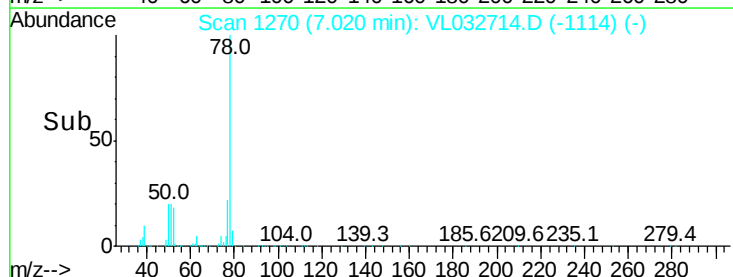
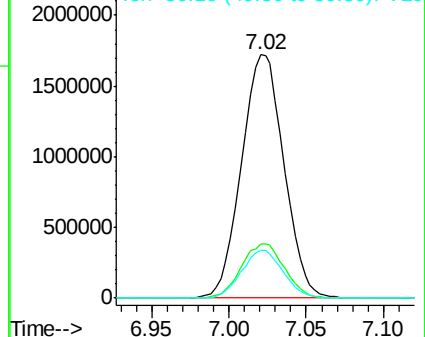
50 19.8 15.1 22.7

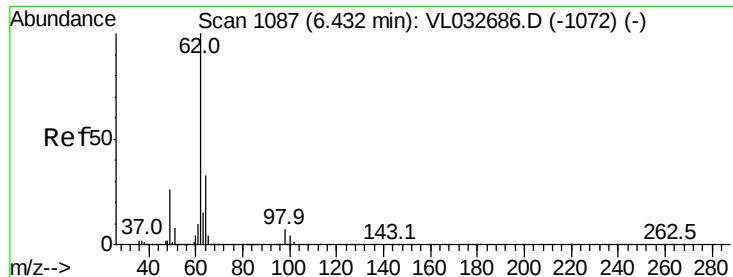


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.383 ppbv

RT: 6.43 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

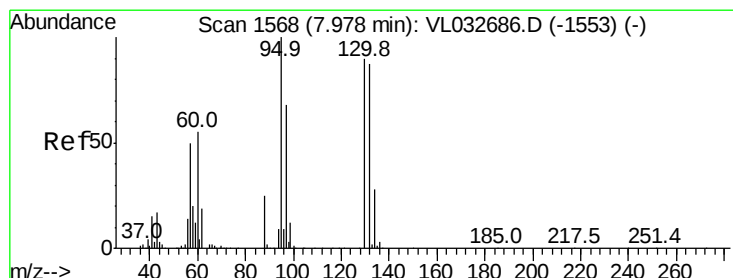
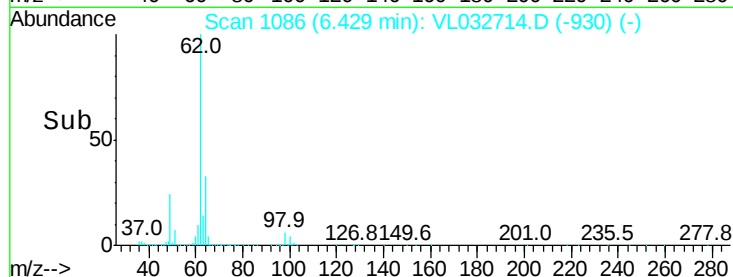
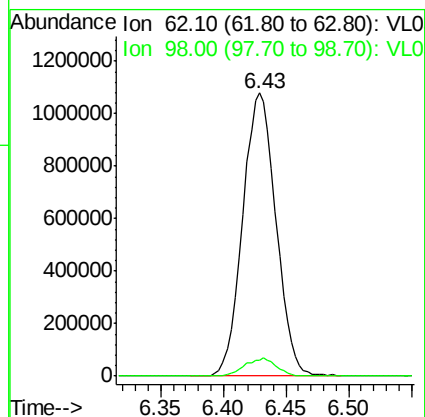
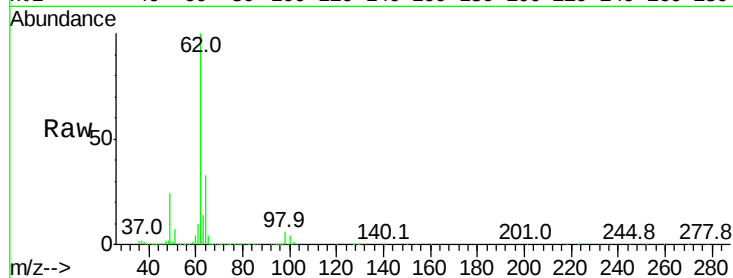
VL1107ABS01

Tgt Ion: 62 Resp: 1989605

Ion Ratio Lower Upper

62 100

98 6.1 4.4 6.6



#38

Trichloroethene

Concen: 11.114 ppbv

RT: 7.98 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion: 130 Resp: 1285378

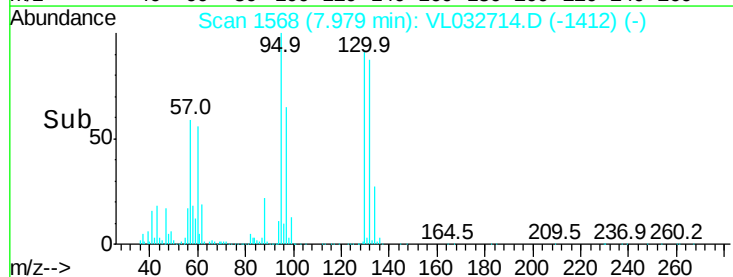
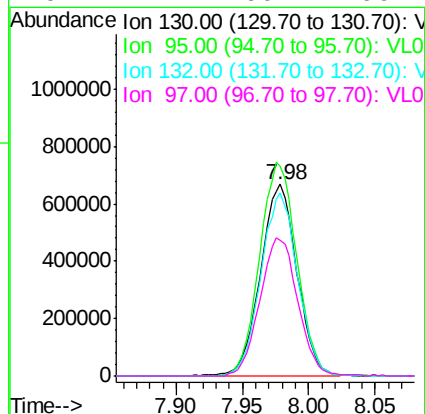
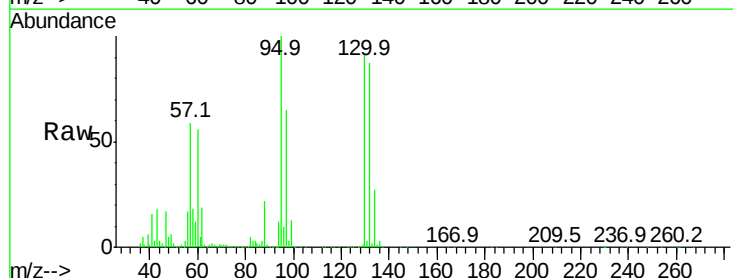
Ion Ratio Lower Upper

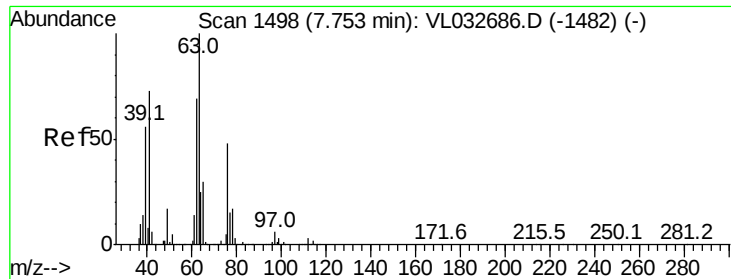
130 100

95 109.8 93.4 140.0

132 95.3 76.5 114.7

97 71.1 60.2 90.2





#39

1,2-Dichloropropane

Concen: 10.263 ppbv

RT: 7.75 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

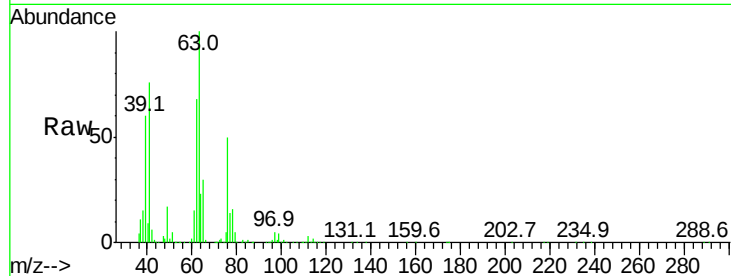
Tgt Ion: 63 Resp: 1238155

Ion Ratio Lower Upper

63 100

41 75.9 56.2 84.4

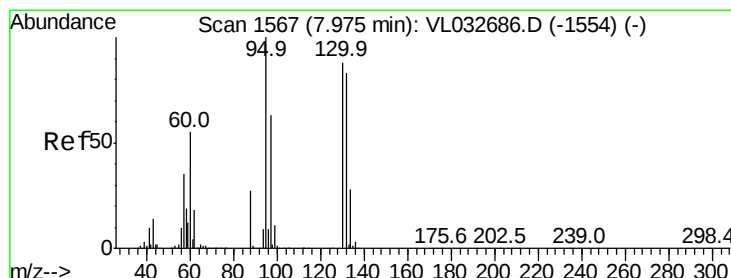
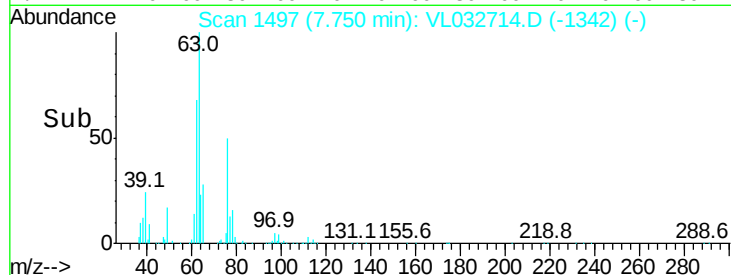
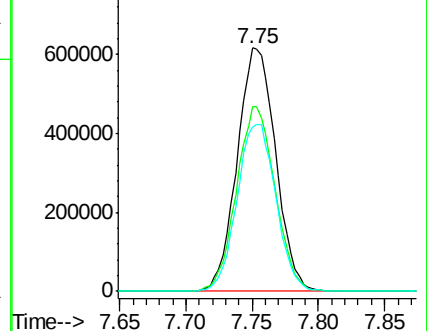
62 67.6 54.4 81.6



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: 10.529 ppbv

RT: 7.97 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion: 88 Resp: 433822

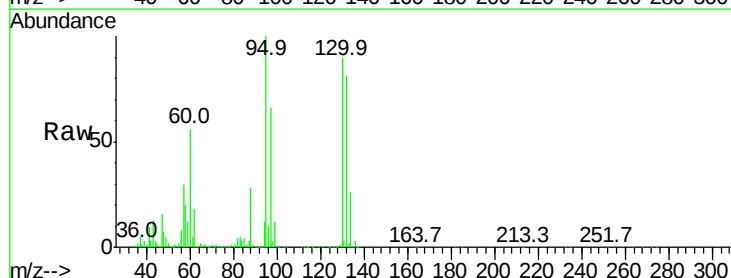
Ion Ratio Lower Upper

88 100

58 130.6 104.0 156.0

43 278.1 0.0 0.0#

57 1273.3 0.0 0.0#

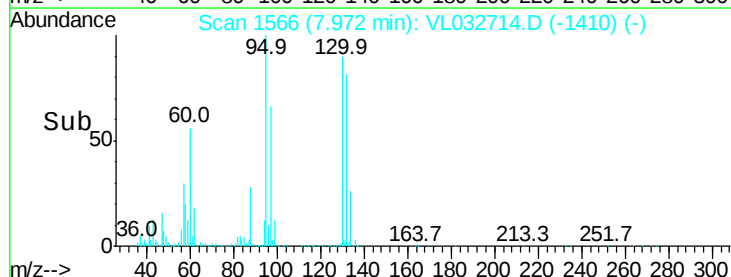
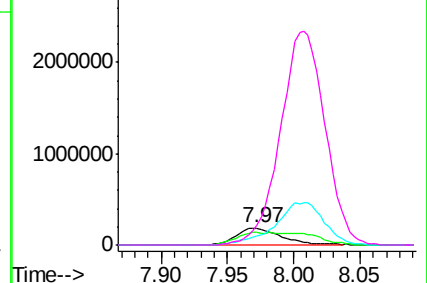


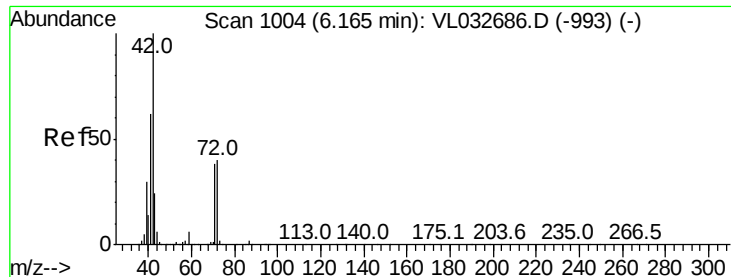
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 11.401 ppbv

RT: 6.16 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

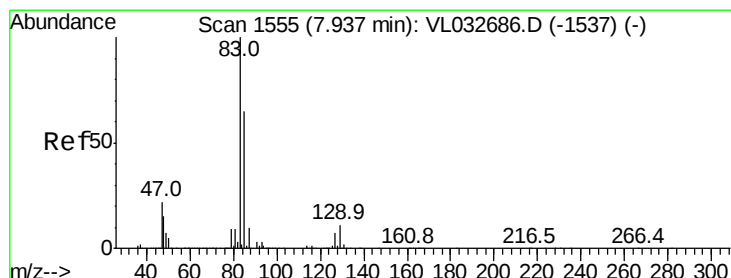
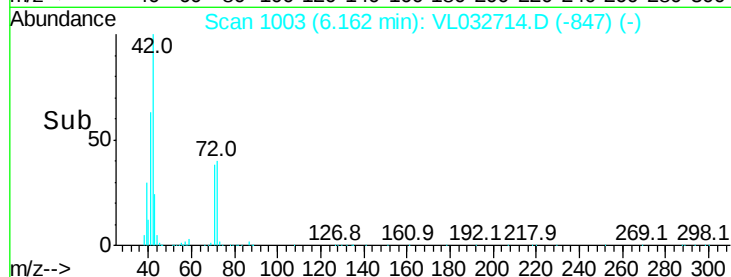
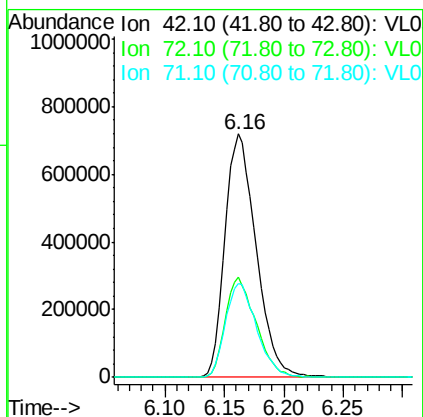
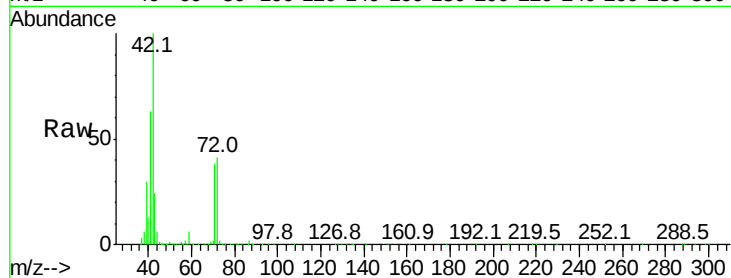
Tgt Ion: 42 Resp: 1310235

Ion Ratio Lower Upper

42 100

72 40.5 32.4 48.6

71 38.7 31.3 46.9



#42

Bromodichloromethane

Concen: 10.458 ppbv

RT: 7.93 min Scan# 1554

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

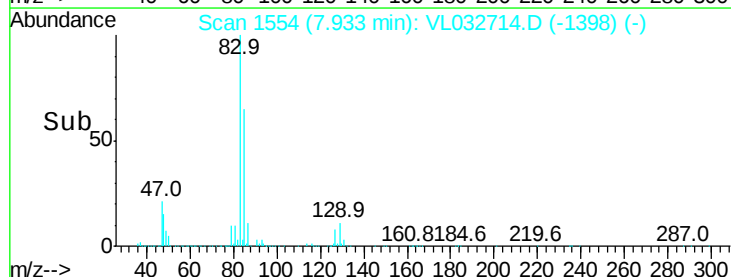
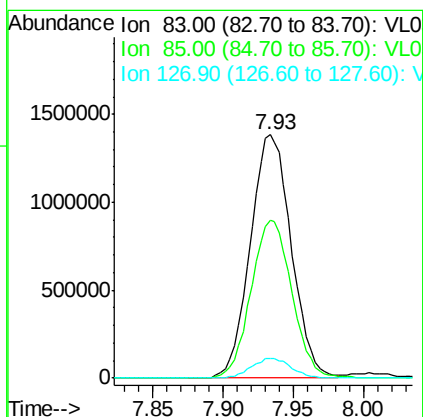
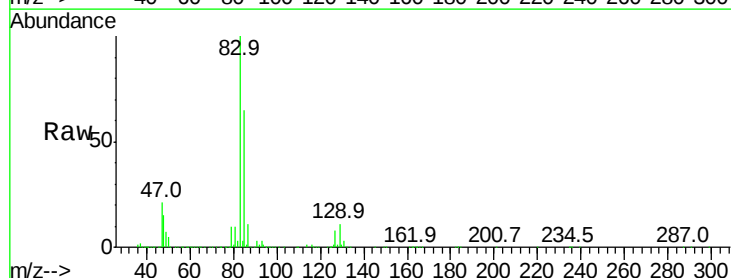
Tgt Ion: 83 Resp: 2807661

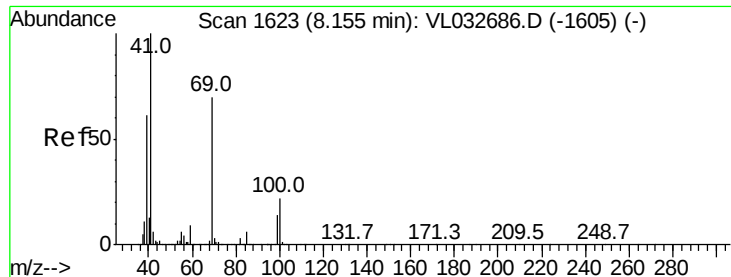
Ion Ratio Lower Upper

83 100

85 65.0 52.4 78.6

127 8.2 6.1 9.1

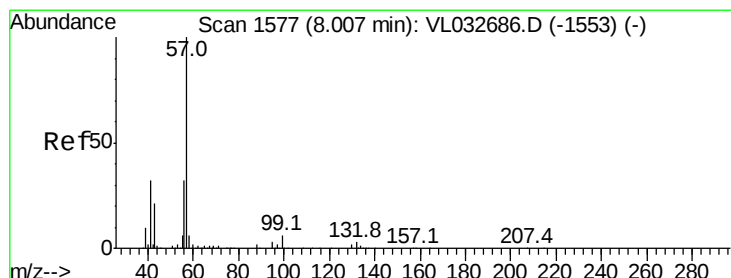
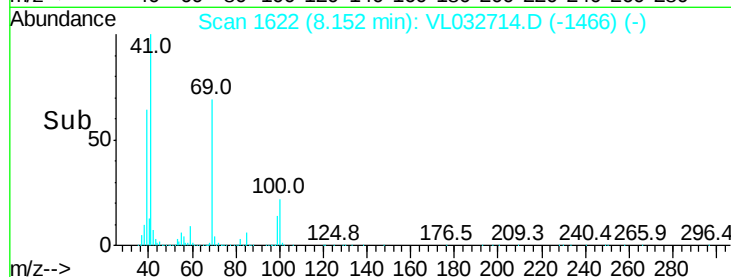
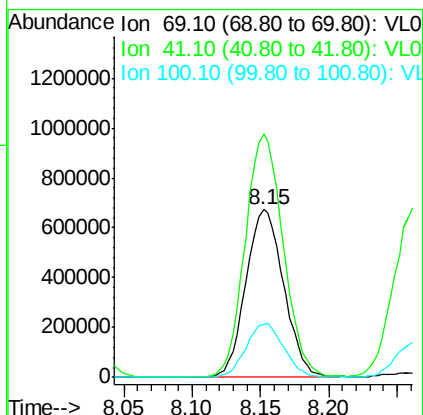
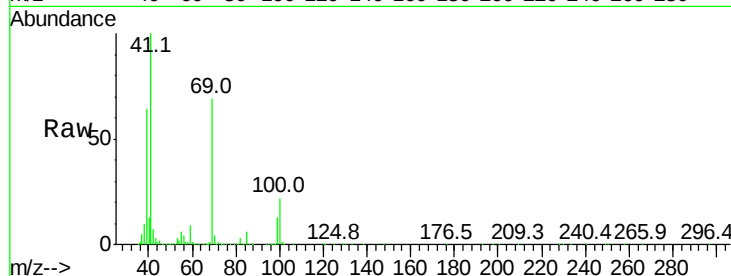




#43
Methyl Methacrylate
Concen: 11.352 ppbv
RT: 8.15 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

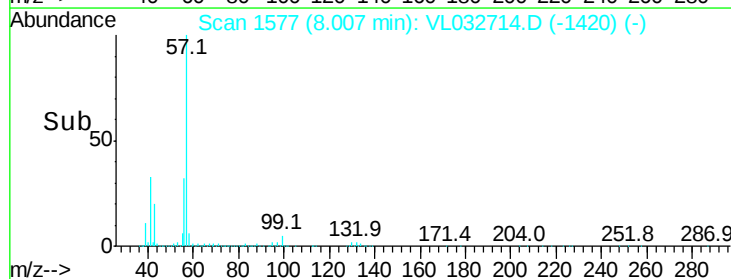
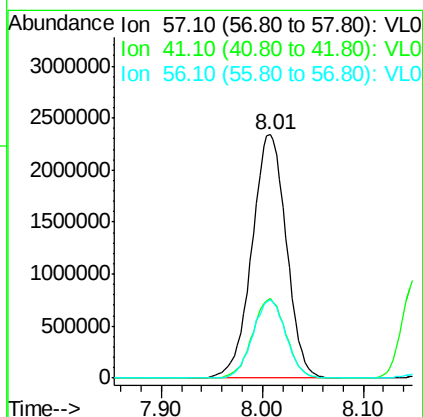
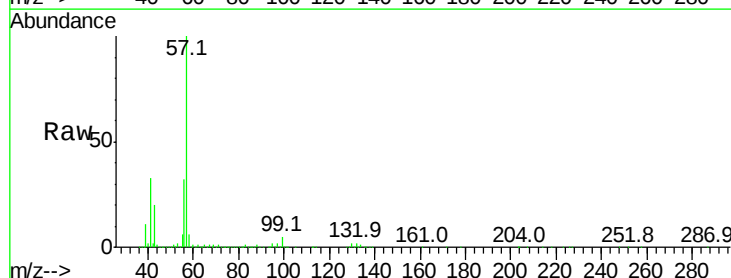
Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

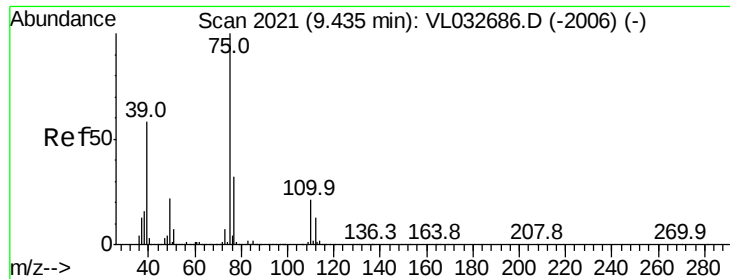
Tgt Ion: 69 Resp: 1299805
Ion Ratio Lower Upper
69 100
41 145.3 113.2 169.8
100 32.0 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 10.347 ppbv
RT: 8.01 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 57 Resp: 5518161
Ion Ratio Lower Upper
57 100
41 31.9 24.7 37.1
56 31.2 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 11.886 ppbv

RT: 9.43 min Scan# 2020

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

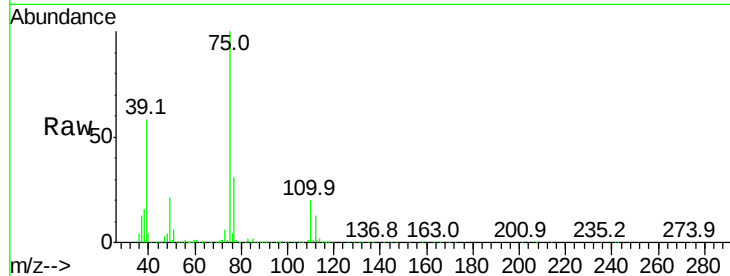
VL1107ABS01

Tgt Ion: 75 Resp: 1821628

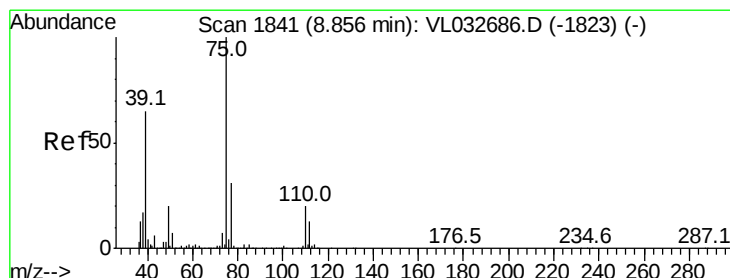
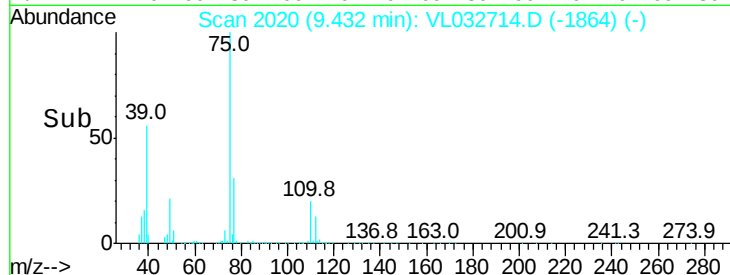
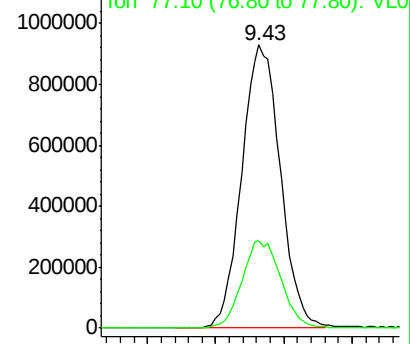
Ion Ratio Lower Upper

75 100

77 30.9 25.3 37.9



Abundance Ion 75.10 (74.80 to 75.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 12.594 ppbv

RT: 8.85 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

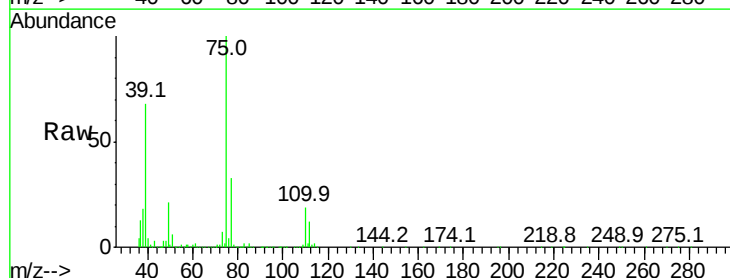
Tgt Ion: 75 Resp: 2205305

Ion Ratio Lower Upper

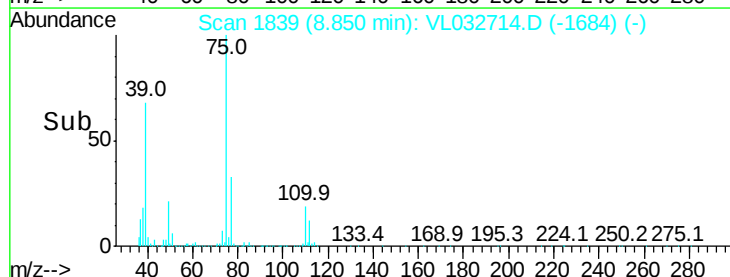
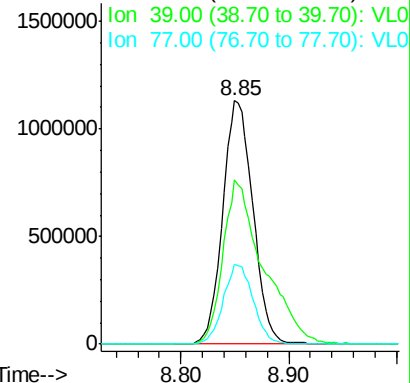
75 100

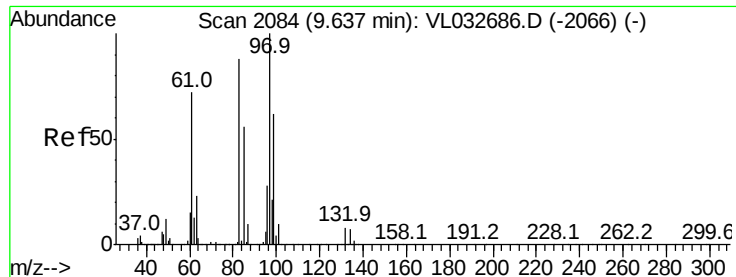
39 67.7 50.9 76.3

77 32.5 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VL0





#47

1,1,2-Trichloroethane

Concen: 10.108 ppbv

RT: 9.63 min Scan# 2083

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tgt Ion: 97 Resp: 1440970

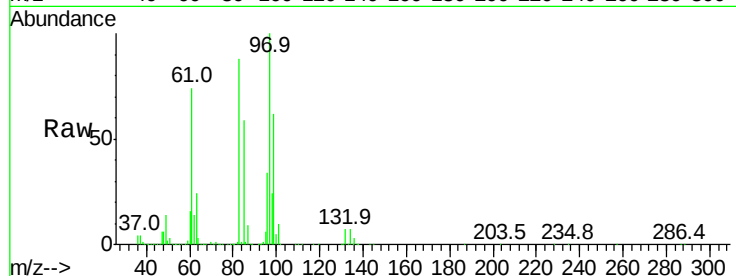
Ion Ratio Lower Upper

97 100

83 87.8 73.5 110.3

85 59.1 45.8 68.6

99 62.4 50.6 75.8

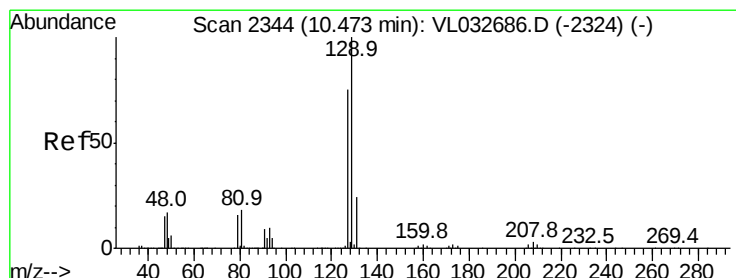
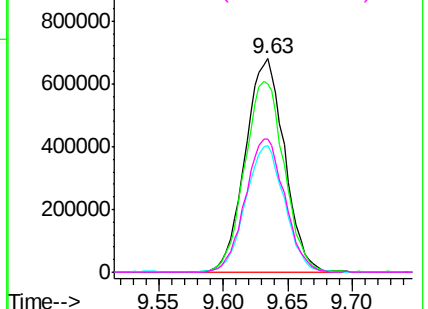
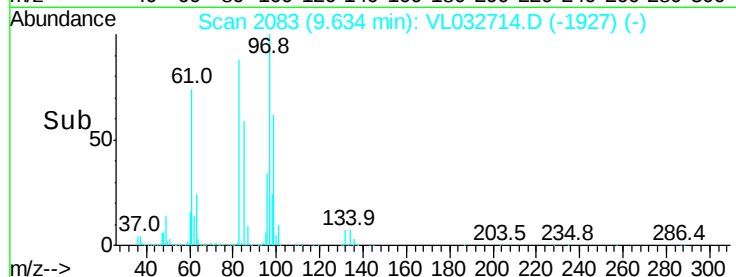


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.028 ppbv

RT: 10.47 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VL032714.D

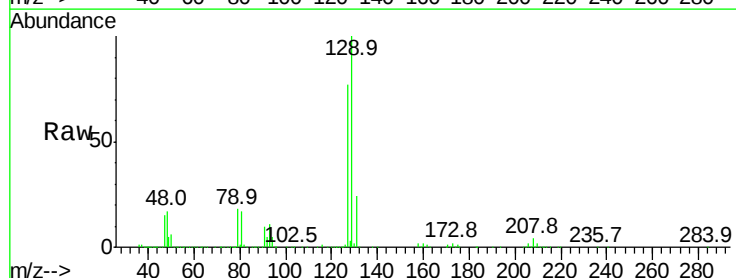
Acq: 7 Nov 2018 12:58

Tgt Ion: 129 Resp: 2382846

Ion Ratio Lower Upper

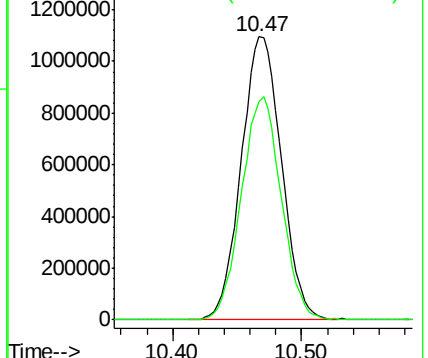
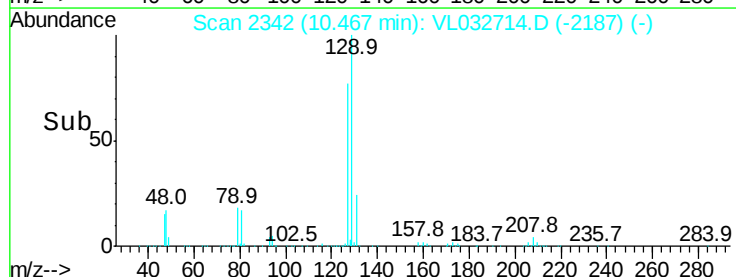
129 100

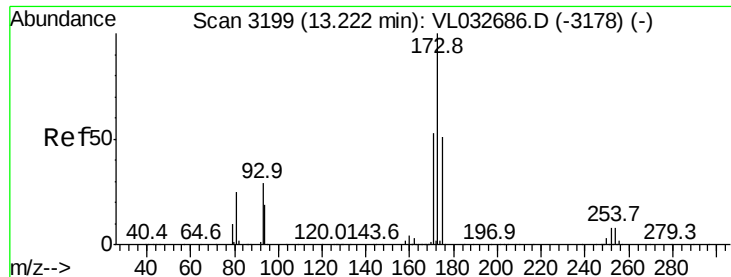
127 78.3 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.004 ppbv

RT: 13.22 min Scan# 3198

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

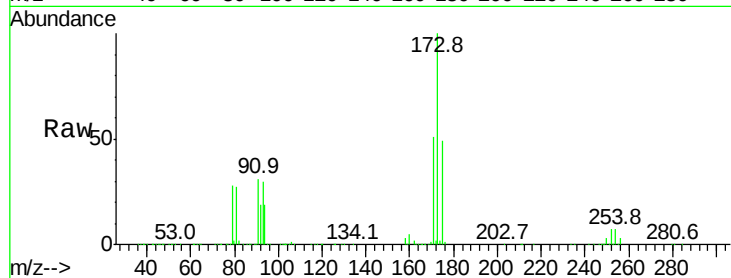
Tgt Ion:173 Resp: 2054685

Ion Ratio Lower Upper

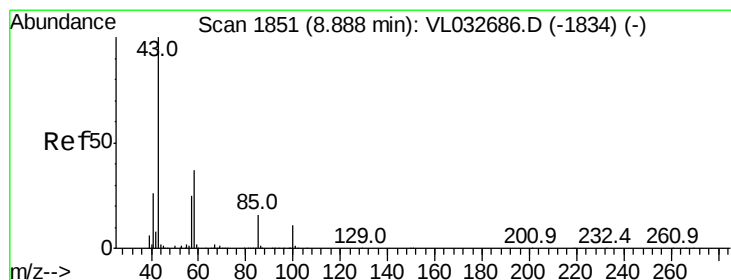
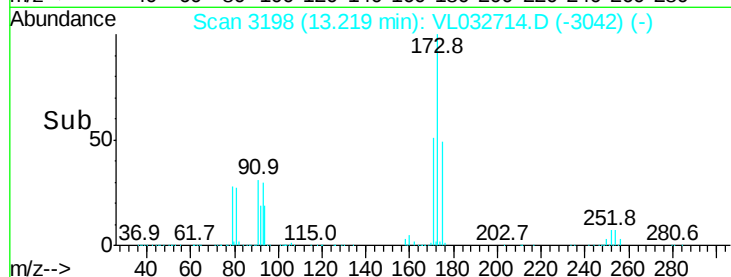
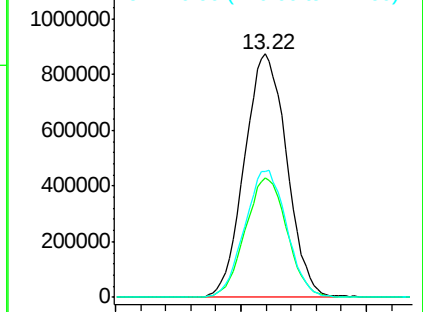
173 100

175 48.7 39.0 58.4

171 51.7 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: 11.444 ppbv

RT: 8.89 min Scan# 1850

Delta R.T. 0.00 min

Lab File: VL032714.D

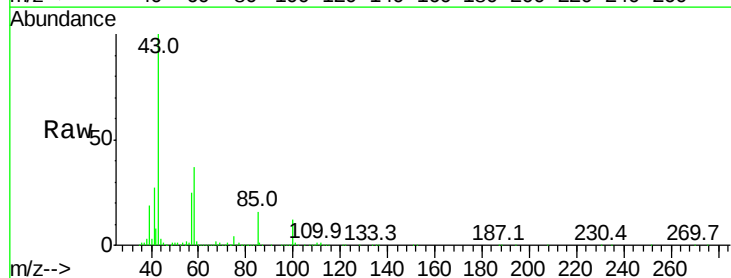
Acq: 7 Nov 2018 12:58

Tgt Ion: 43 Resp: 3496756

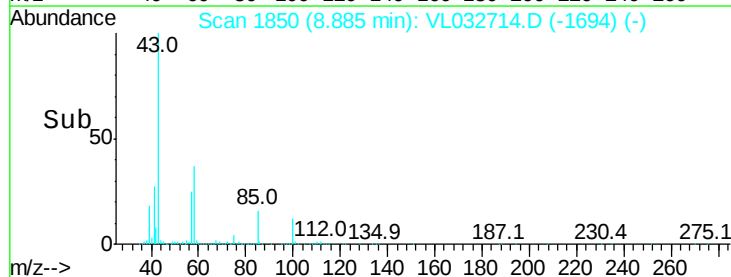
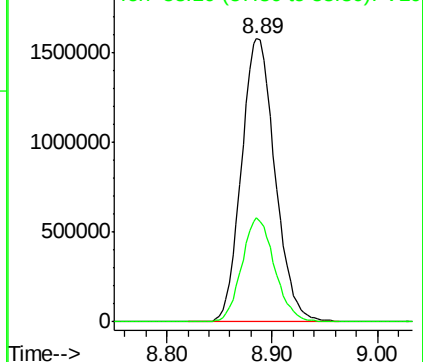
Ion Ratio Lower Upper

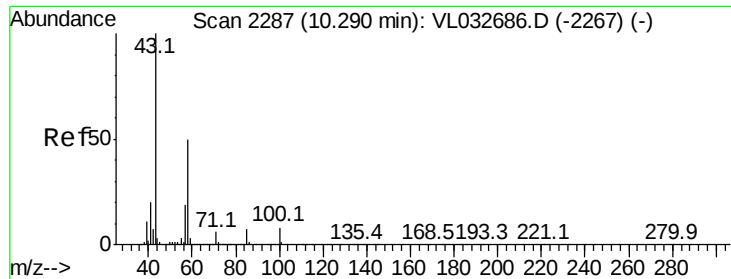
43 100

58 35.9 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: 10.751 ppbv

RT: 10.29 min Scan# 2287

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

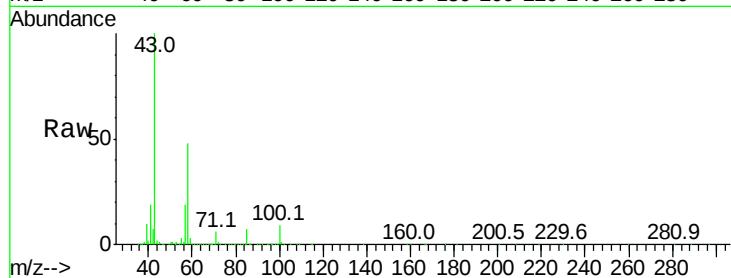
Tgt Ion: 43 Resp: 2441793

Ion Ratio Lower Upper

43 100

58 48.9 40.4 60.6

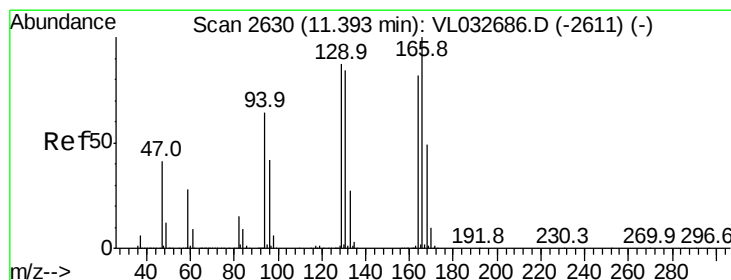
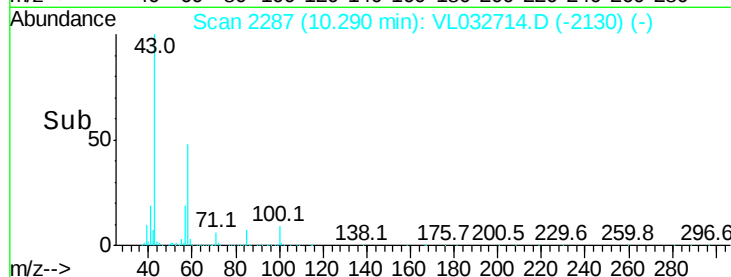
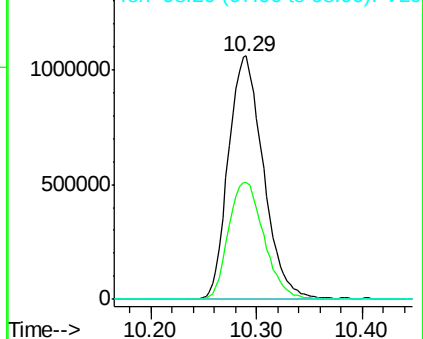
98 0.4 0.4 0.6#



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: 10.274 ppbv

RT: 11.39 min Scan# 2629

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion: 164 Resp: 1119081

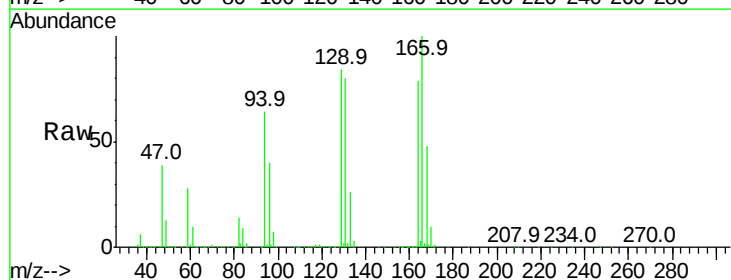
Ion Ratio Lower Upper

164 100

166 127.1 100.5 150.7

129 106.6 90.0 135.0

131 102.4 86.6 129.8

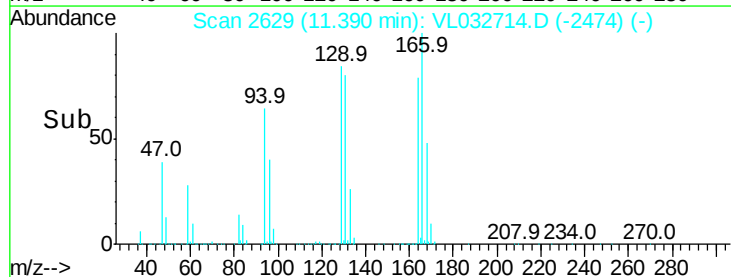
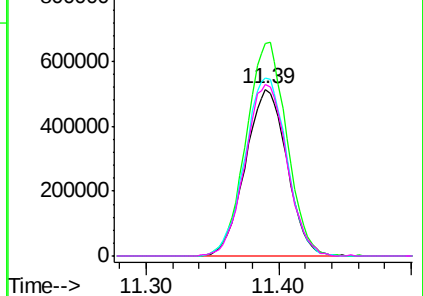


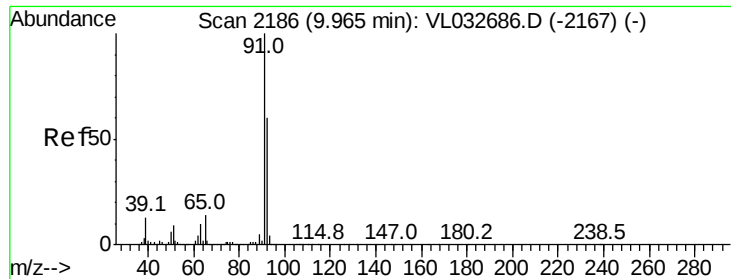
Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.588 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

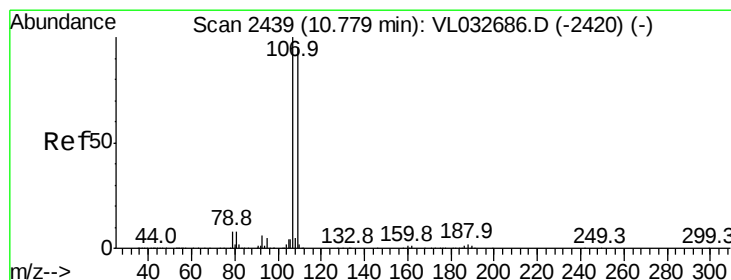
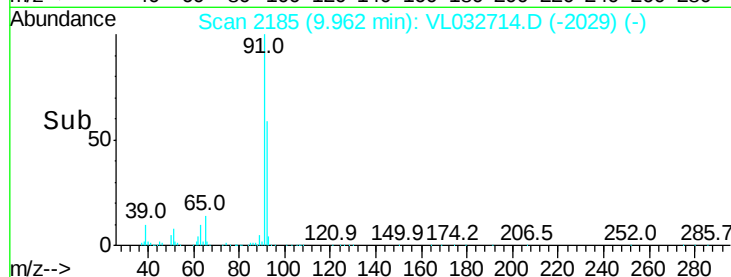
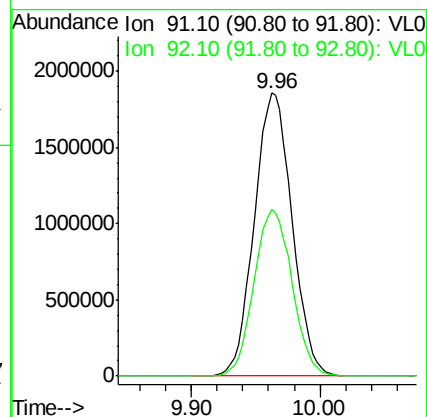
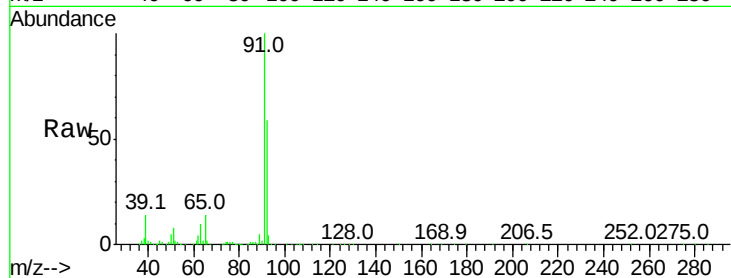
VL1107ABS01

Tgt Ion: 91 Resp: 3791810

Ion Ratio Lower Upper

91 100

92 59.4 48.4 72.6



#54

1,2-Dibromoethane

Concen: 10.582 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VL032714.D

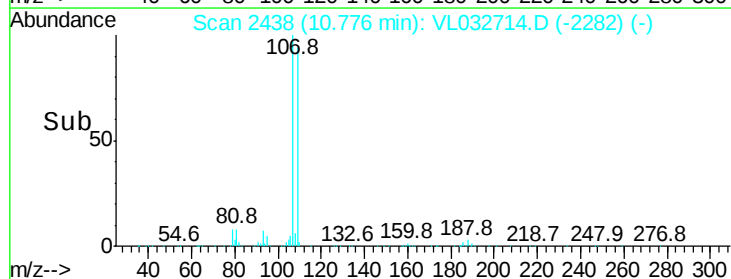
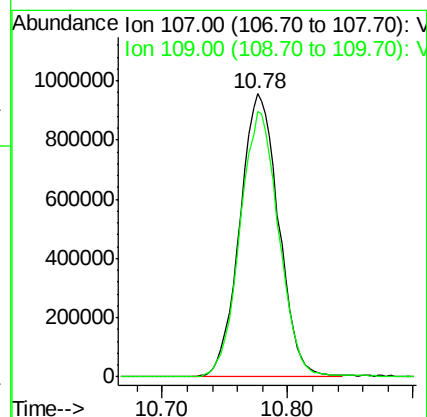
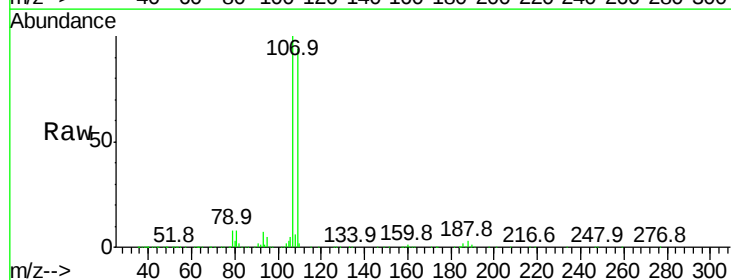
Acq: 7 Nov 2018 12:58

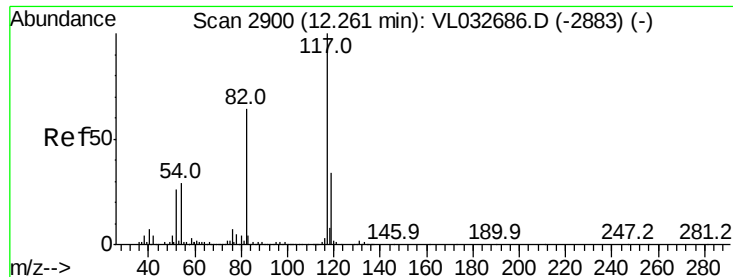
Tgt Ion: 107 Resp: 2050185

Ion Ratio Lower Upper

107 100

109 93.8 75.3 112.9

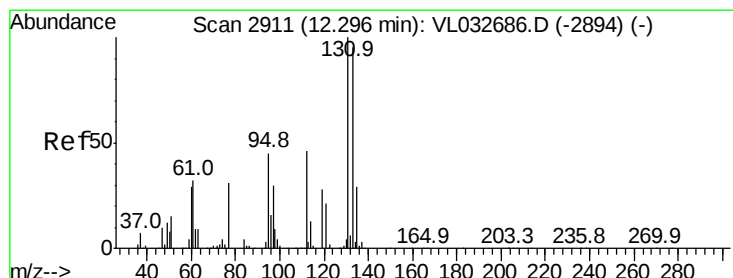
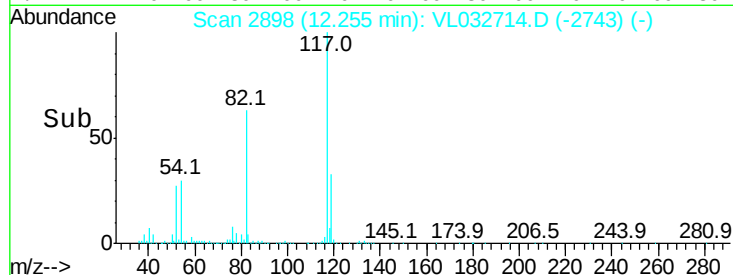
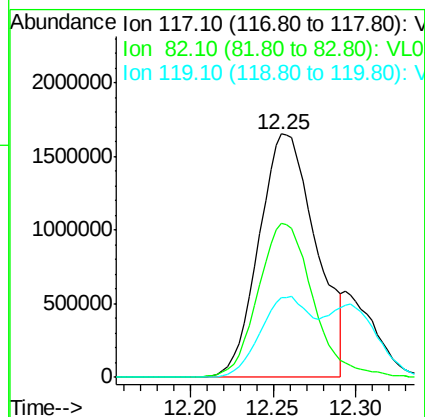
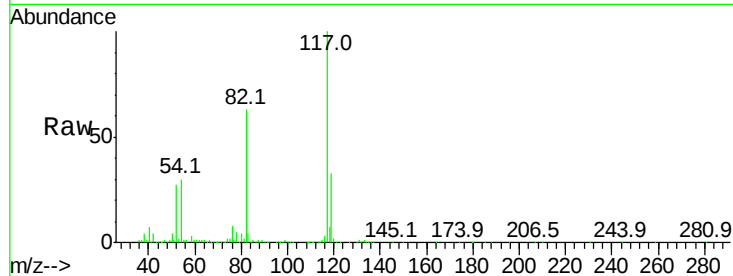




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

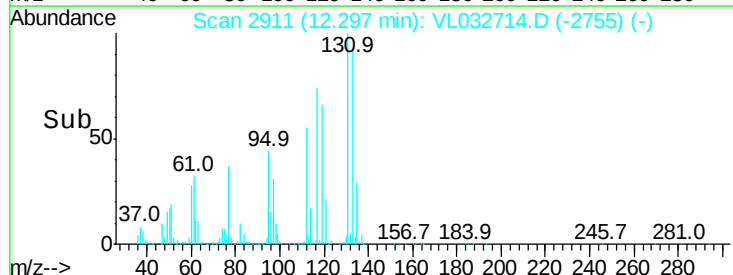
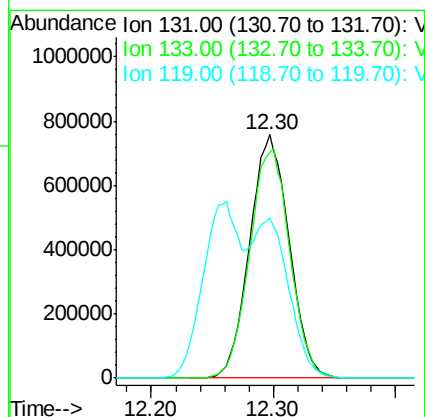
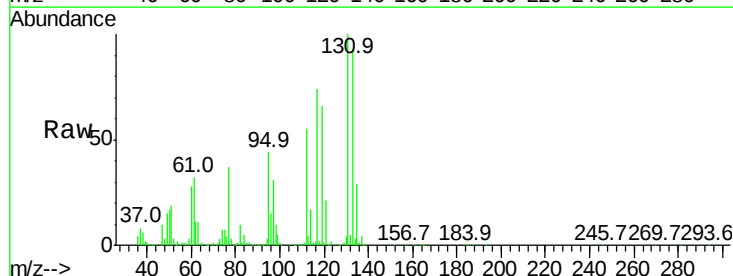
Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

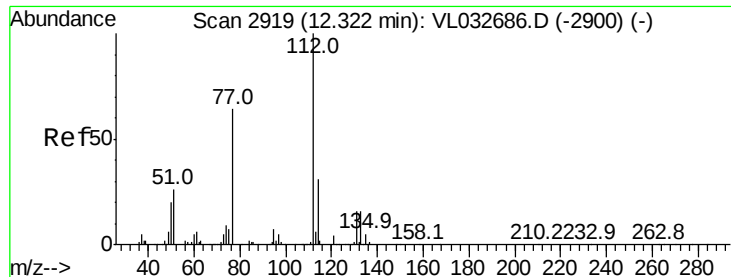
Tgt Ion:117 Resp: 3969230
Ion Ratio Lower Upper
117 100
82 61.0 52.7 79.1
119 31.9 26.7 40.1



#56
1,1,1,2-Tetrachloroethane
Concen: 9.745 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion:131 Resp: 1691419
Ion Ratio Lower Upper
131 100
133 96.1 75.4 113.2
119 62.3 49.1 73.7

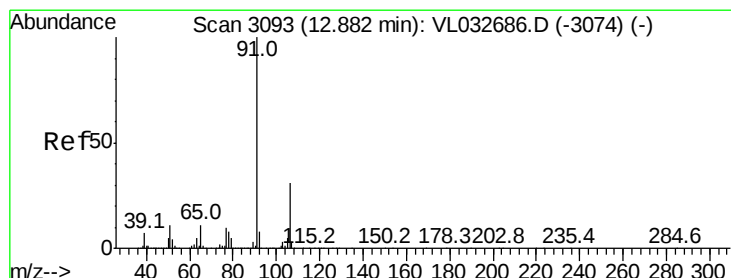
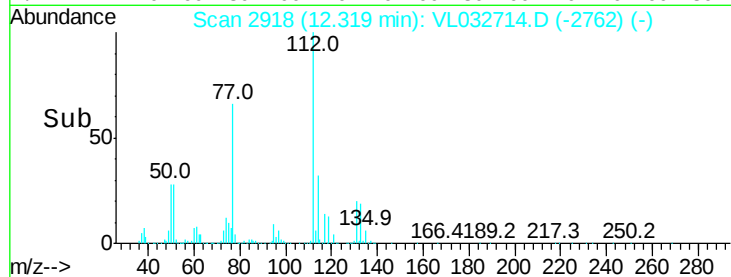
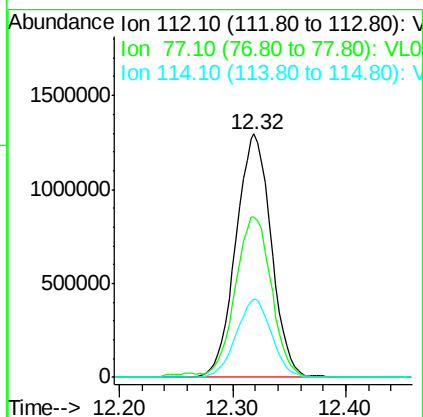
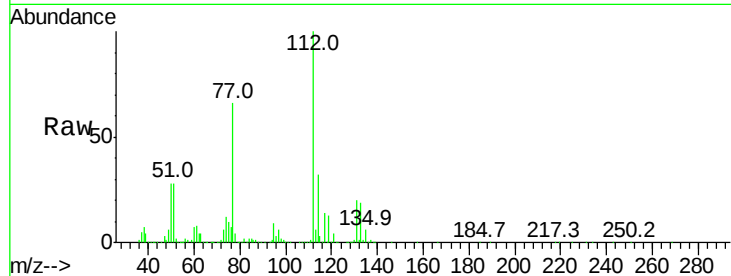




#57
Chlorobenzene
Concen: 9.669 ppbv
RT: 12.32 min Scan# 2918
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

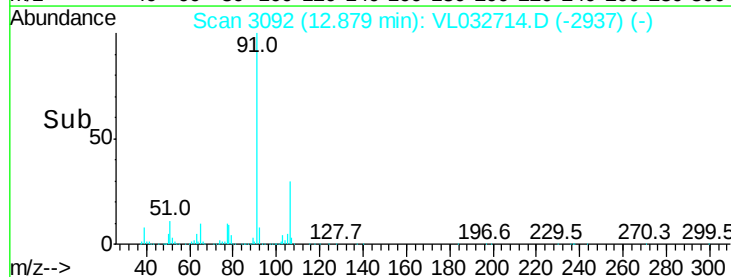
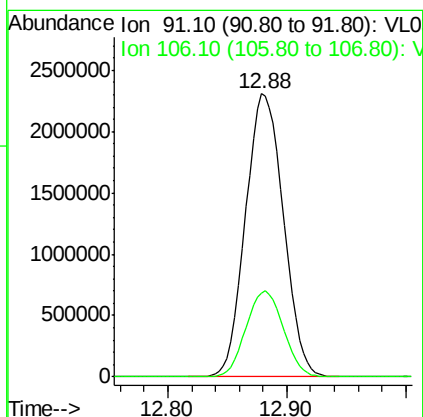
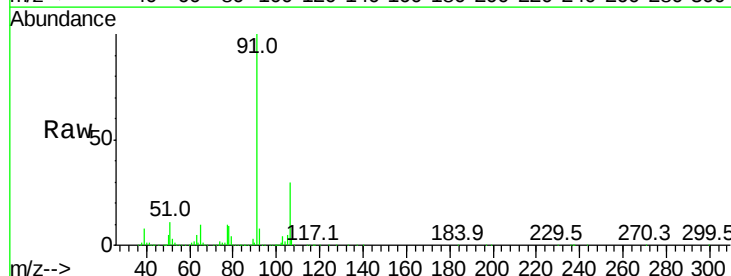
Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

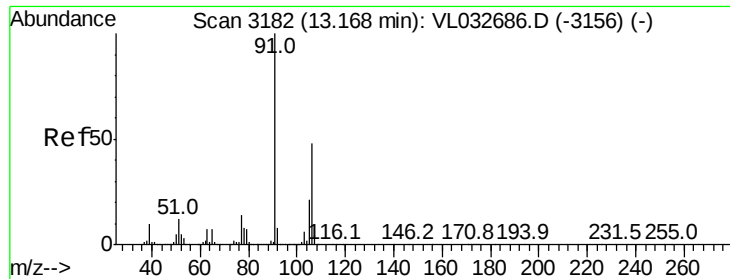
Tgt Ion: 112 Resp: 2822541
Ion Ratio Lower Upper
112 100
77 65.8 56.8 85.2
114 32.3 30.3 37.1



#58
Ethyl Benzene
Concen: 11.046 ppbv
RT: 12.88 min Scan# 3092
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 91 Resp: 5093638
Ion Ratio Lower Upper
91 100
106 29.7 24.2 36.2

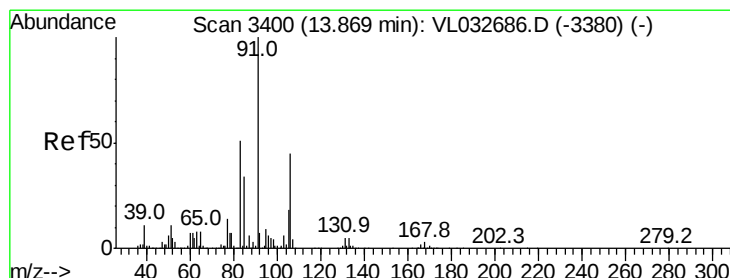
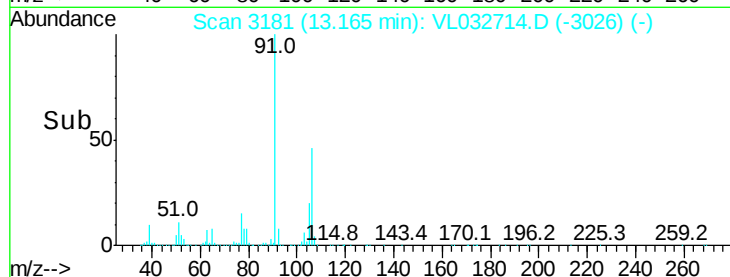
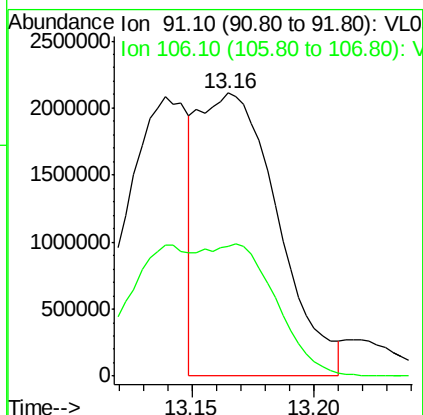
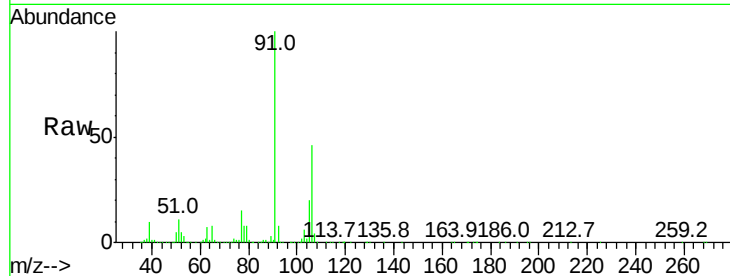




#59
m/p-Xylene
Concen: 11.592 ppbv
RT: 13.16 min Scan# 3181
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

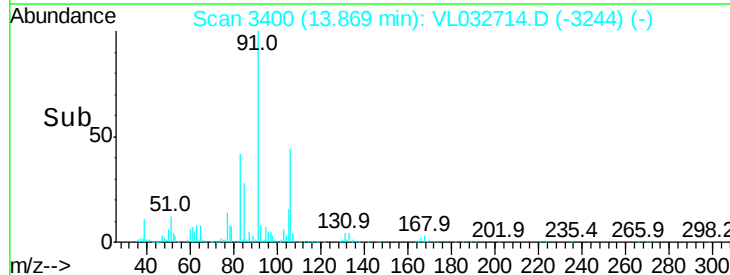
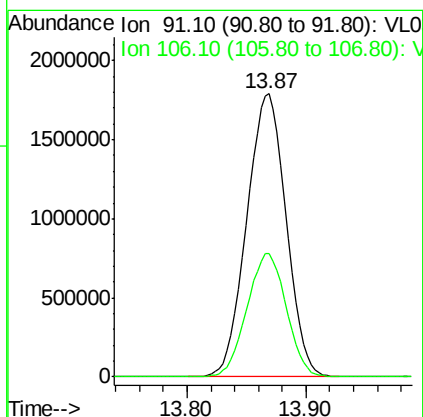
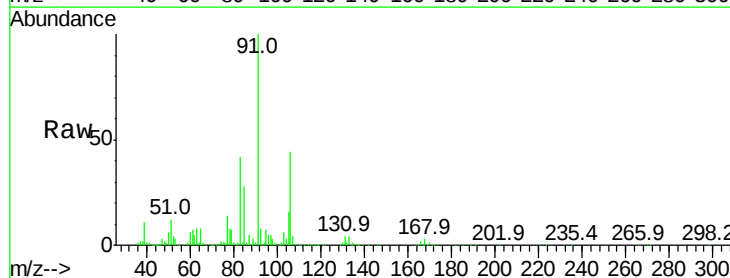
Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

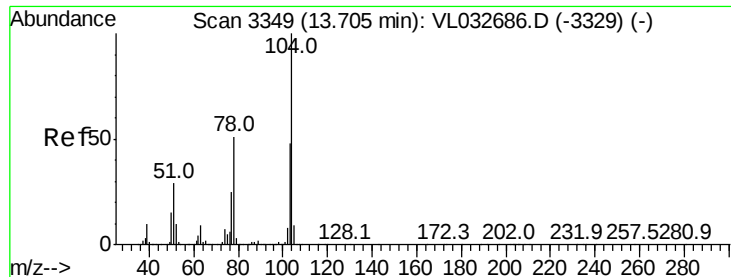
Tgt Ion: 91 Resp: 4760053
Ion Ratio Lower Upper
91 100
106 81.4 35.9 53.9#



#60
o-Xylene
Concen: 10.334 ppbv
RT: 13.87 min Scan# 3400
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 91 Resp: 4093269
Ion Ratio Lower Upper
91 100
106 43.5 22.1 66.1





#61

Styrene

Concen: 11.664 ppbv

RT: 13.70 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

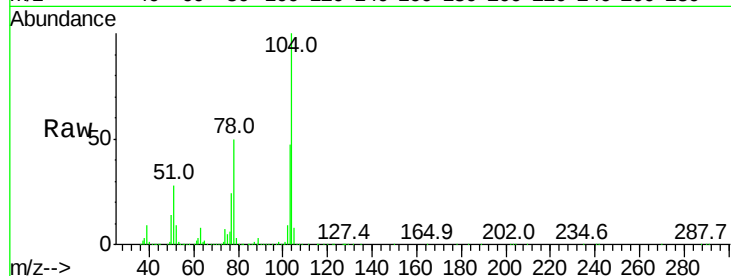
Tgt Ion:104 Resp: 3097826

Ion Ratio Lower Upper

104 100

78 51.7 42.8 64.2

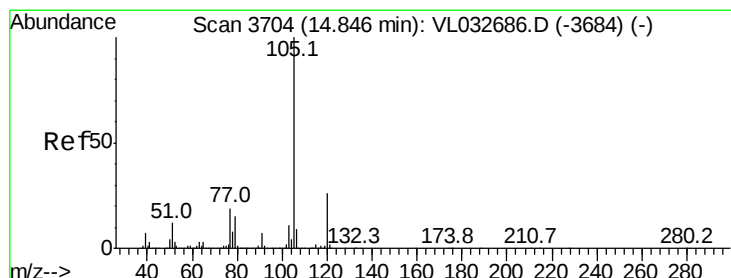
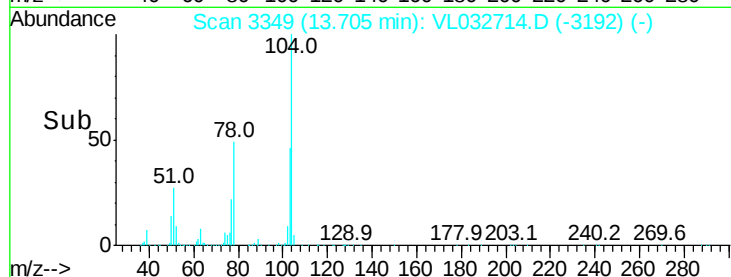
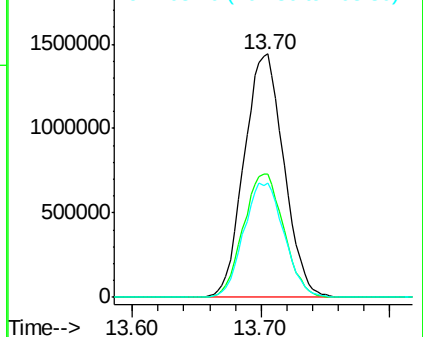
103 47.8 37.4 56.0



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: 10.359 ppbv

RT: 14.84 min Scan# 3703

Delta R.T. 0.00 min

Lab File: VL032714.D

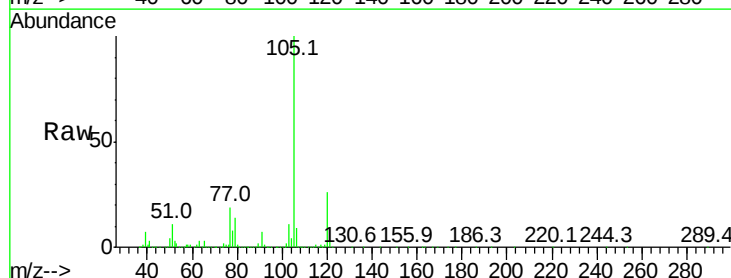
Acq: 7 Nov 2018 12:58

Tgt Ion:105 Resp: 5807337

Ion Ratio Lower Upper

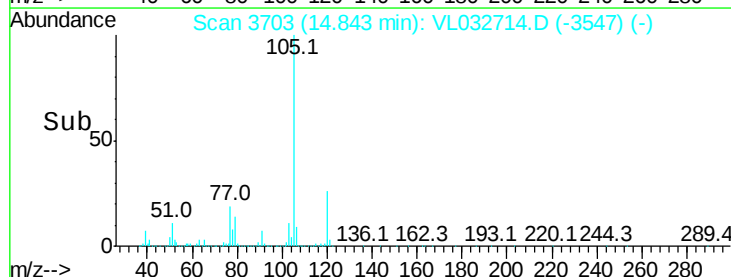
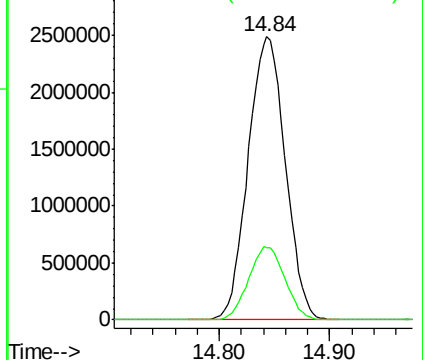
105 100

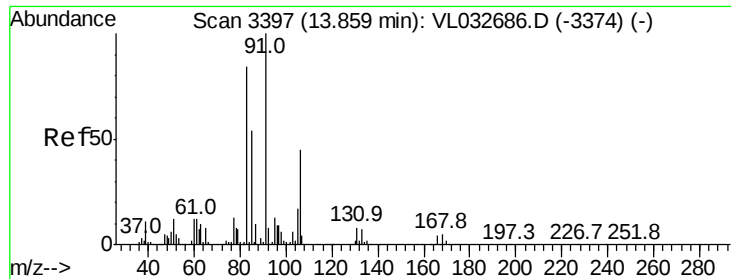
120 25.3 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

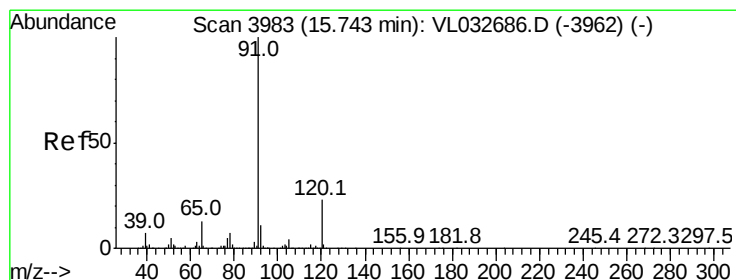
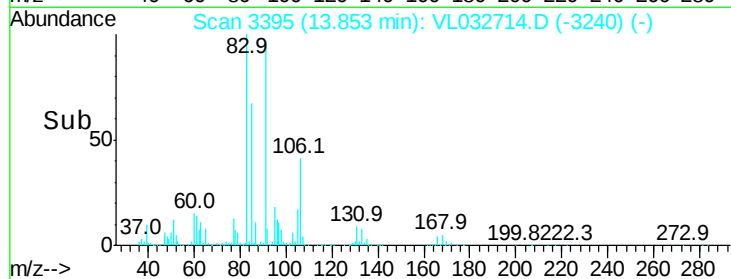
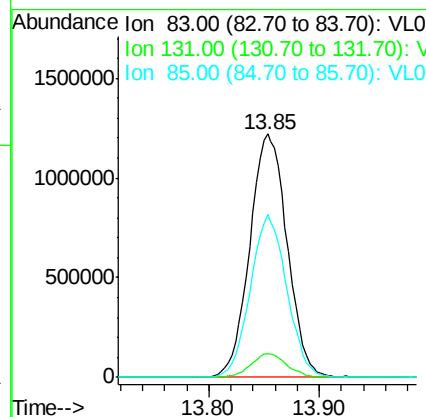
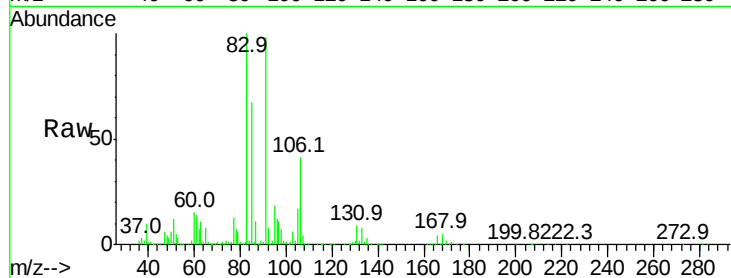




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.205 ppbv
 RT: 13.85 min Scan# 3395
 Delta R.T. -0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

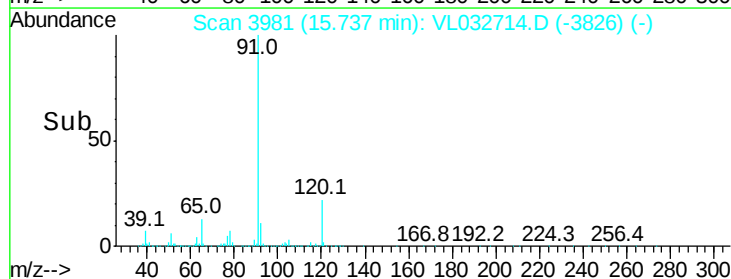
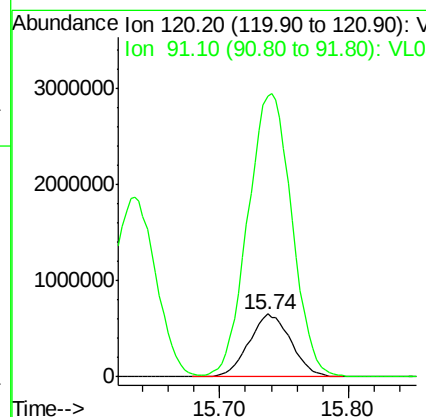
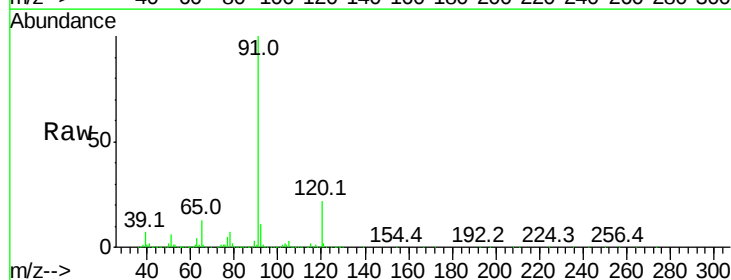
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

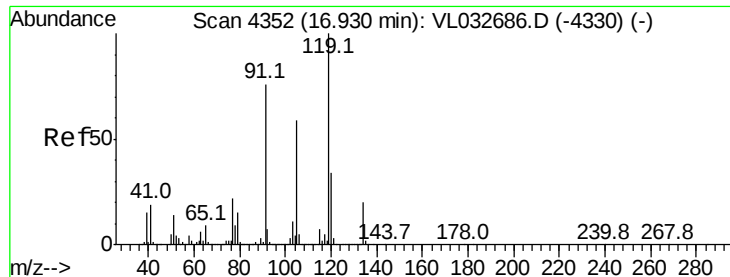
Tgt Ion: 83 Resp: 2856694
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.3 12.9
 85 65.5 32.3 96.9



#64
 n-propylbenzene
 Concen: 10.567 ppbv
 RT: 15.74 min Scan# 3981
 Delta R.T. -0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion: 120 Resp: 1472267
 Ion Ratio Lower Upper
 120 100
 91 476.0 390.2 585.2





#65

tert-Butylbenzene

Concen: 11.193 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

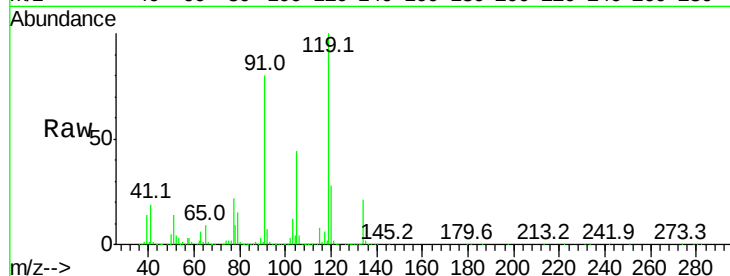
Tgt Ion:119 Resp: 5343738

Ion Ratio Lower Upper

119 100

91 81.9 67.8 101.8

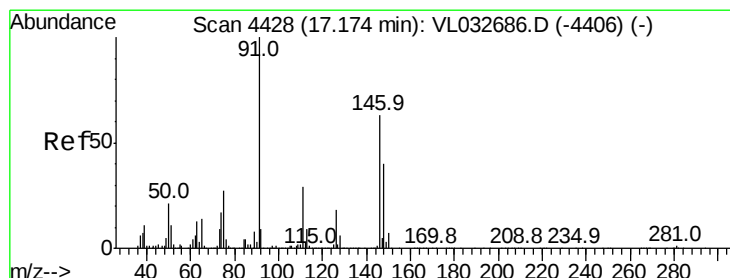
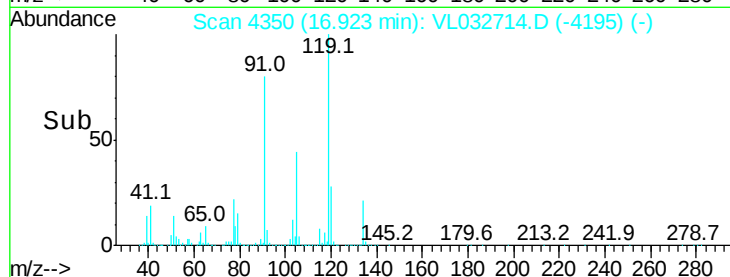
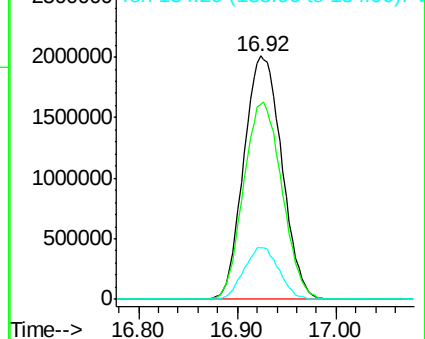
134 19.8 15.8 23.8



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: 13.152 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

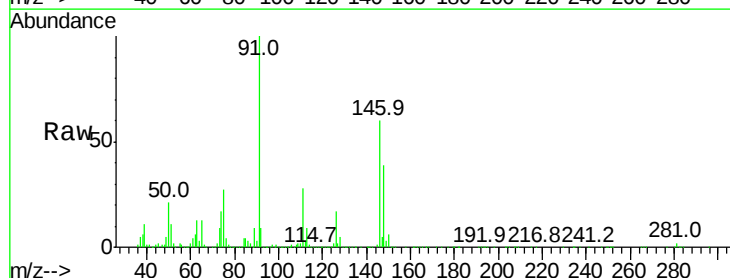
Tgt Ion: 91 Resp: 3241967

Ion Ratio Lower Upper

91 100

126 17.6 13.9 20.9

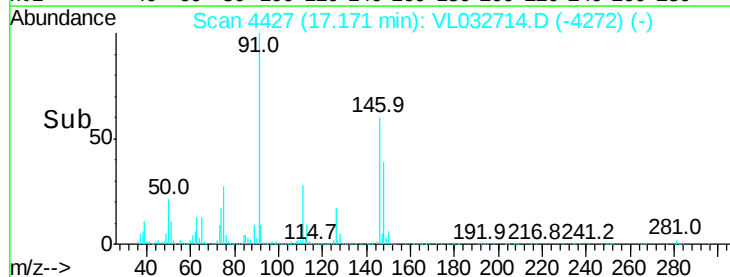
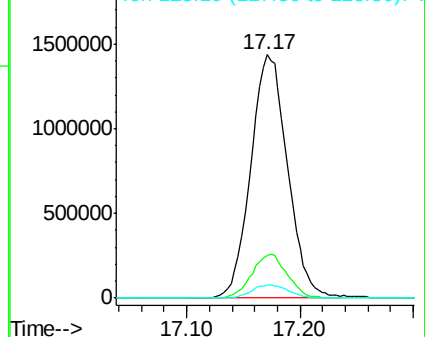
128 5.6 4.3 6.5

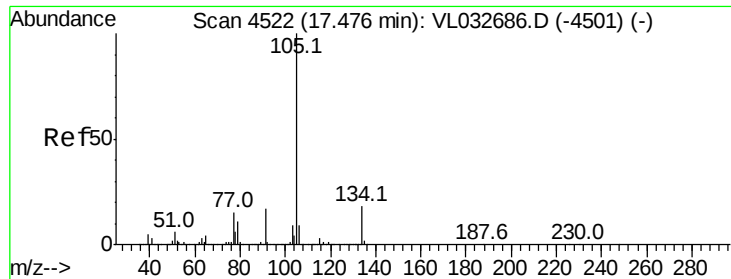


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

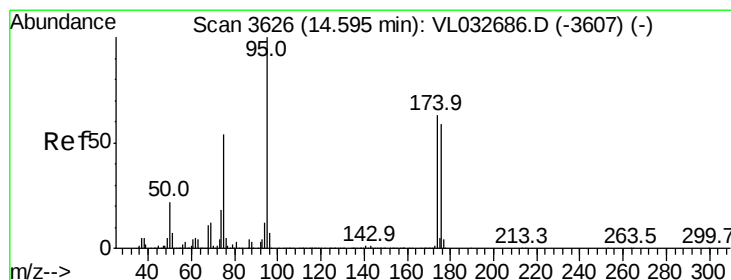
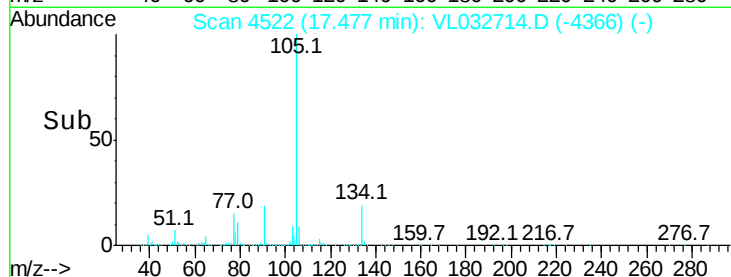
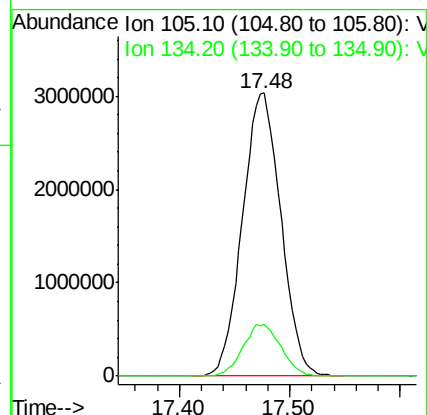
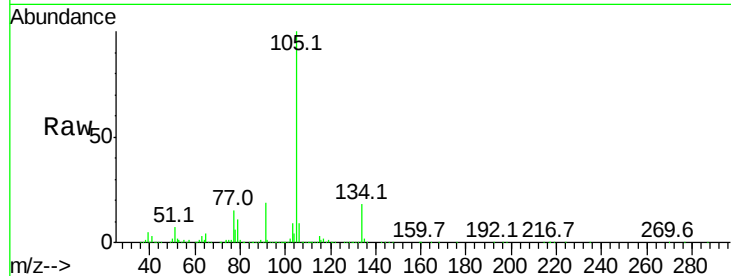




#67
 sec-Butylbenzene
 Concen: 10.758 ppbv
 RT: 17.48 min Scan# 4522
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

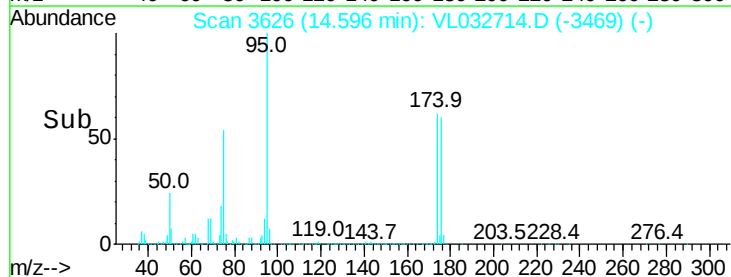
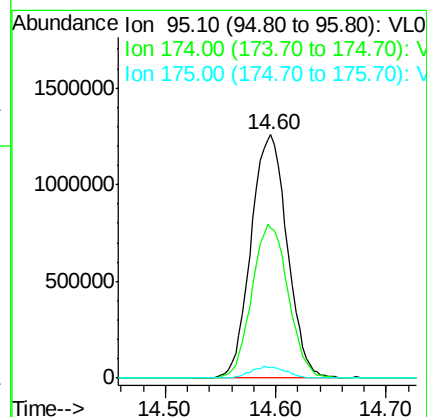
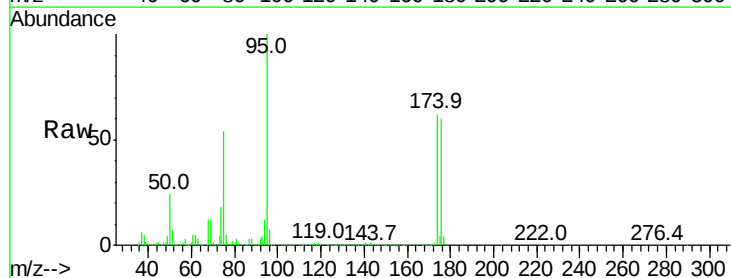
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

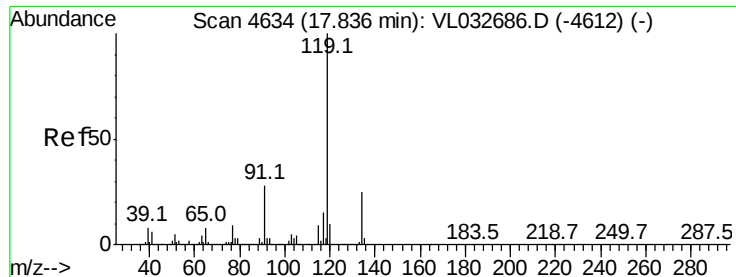
Tgt Ion: 105 Resp: 7304805
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.2 21.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.676 ppbv
 RT: 14.60 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion: 95 Resp: 2859677
 Ion Ratio Lower Upper
 95 100
 174 63.7 46.0 69.0
 175 4.7 3.4 5.0





#69

p-Isopropyltoluene

Concen: 10.691 ppbv

RT: 17.83 min Scan# 4633

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

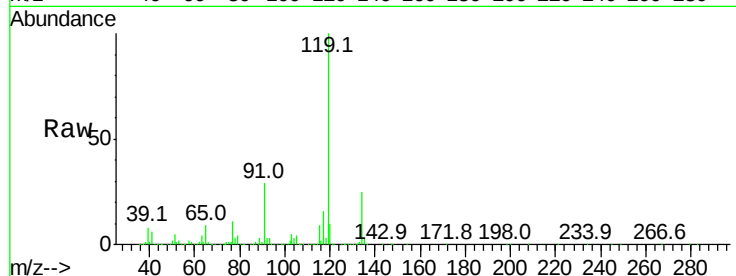
Tgt Ion: 119 Resp: 5752648

Ion Ratio Lower Upper

119 100

134 25.2 20.2 30.2

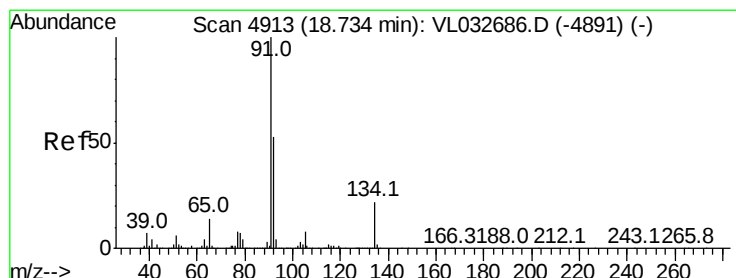
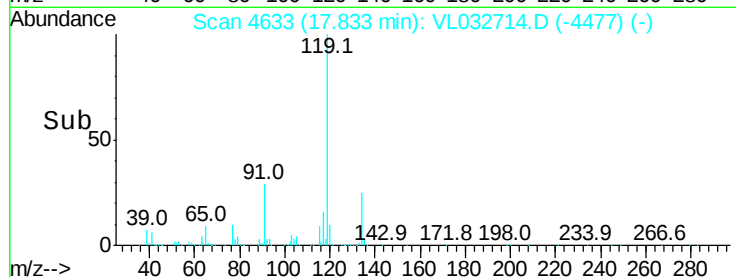
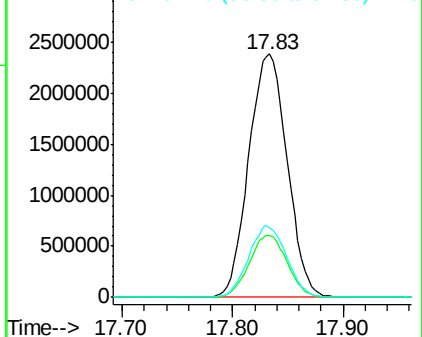
91 29.1 24.0 36.0



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: 11.459 ppbv

RT: 18.73 min Scan# 4912

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

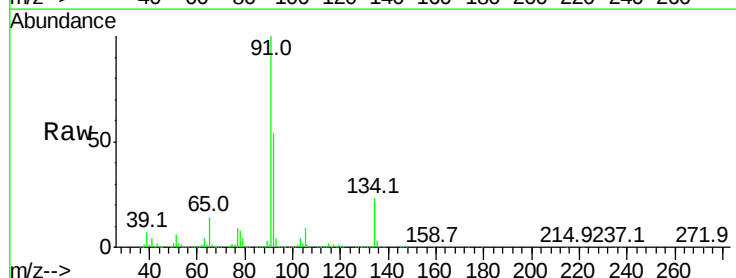
Tgt Ion: 91 Resp: 6347528

Ion Ratio Lower Upper

91 100

92 53.5 43.0 64.4

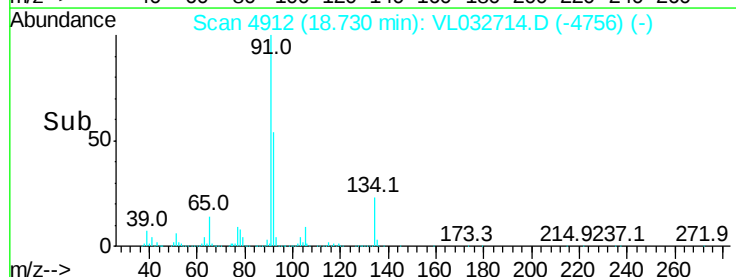
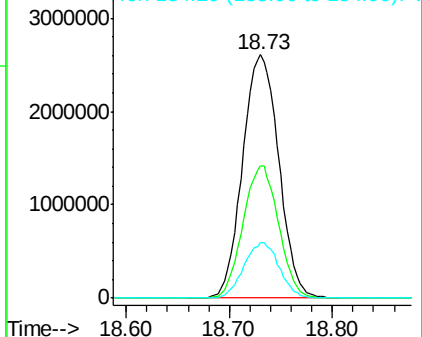
134 22.3 17.0 25.6

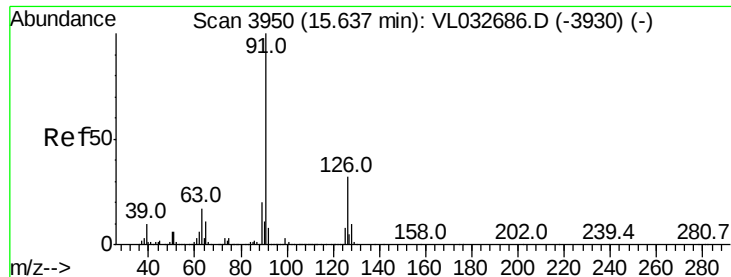


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.777 ppbv

RT: 15.63 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

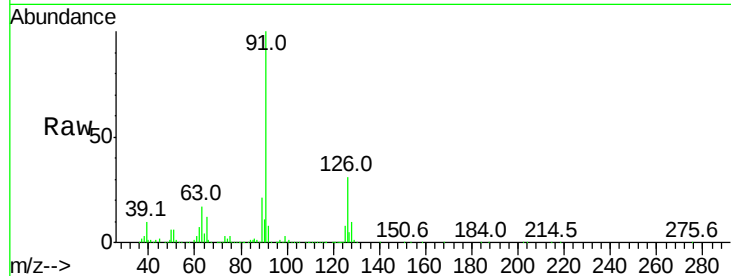
VL1107ABS01

Tgt Ion: 91 Resp: 4293633

Ion Ratio Lower Upper

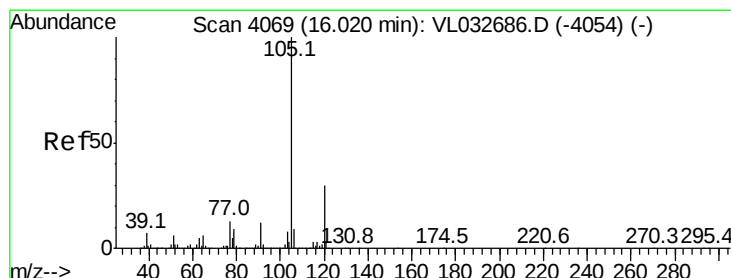
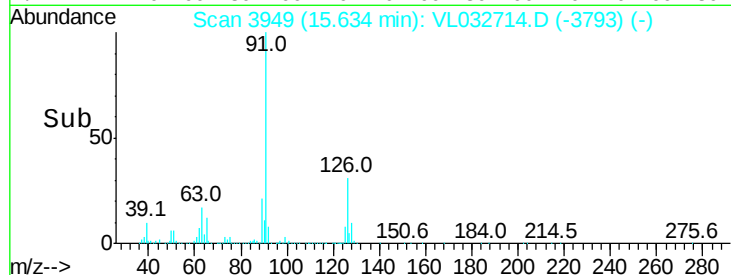
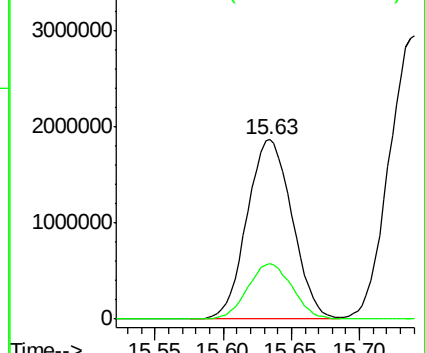
91 100

126 30.5 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: 11.106 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion:105 Resp: 4685300

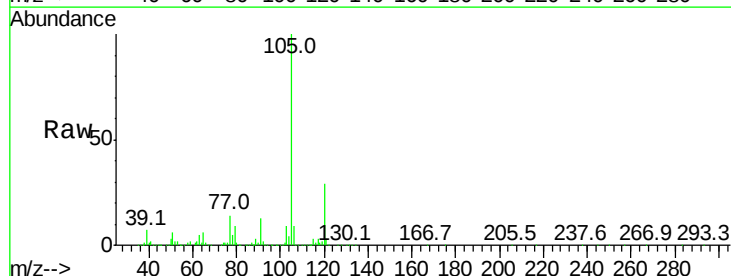
Ion Ratio Lower Upper

105 100

120 28.7 23.7 35.5

91 13.0 10.4 15.6

77 14.0 11.4 17.2

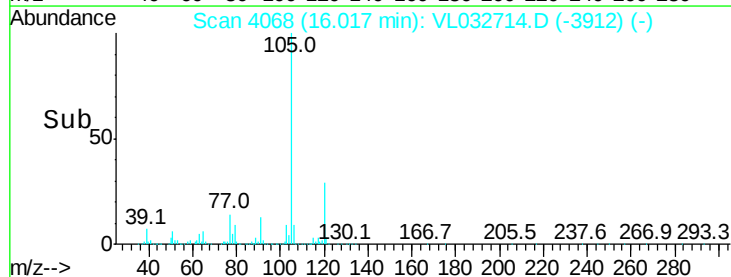
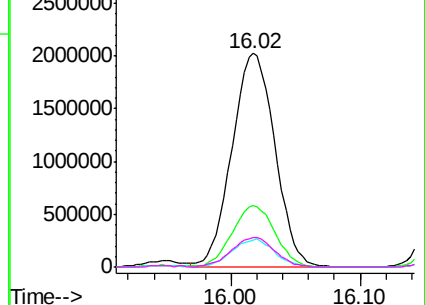


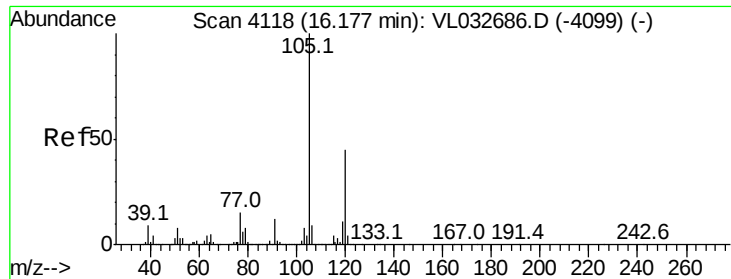
Abundance Ion 105.10 (104.80 to 105.80): V

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

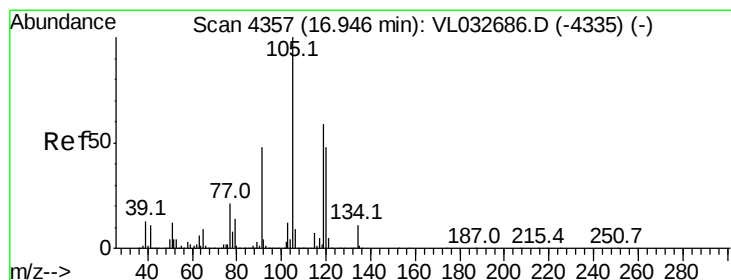
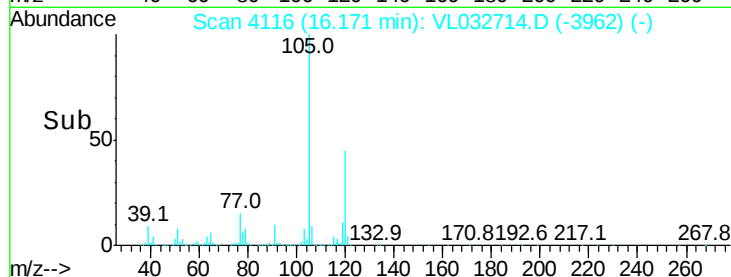
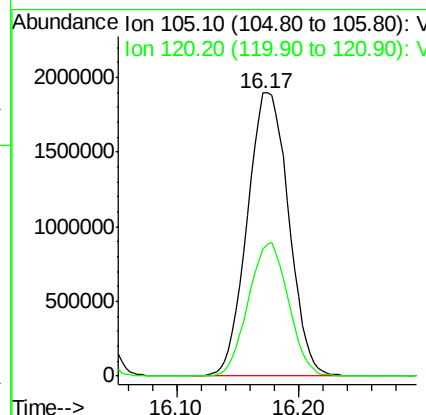
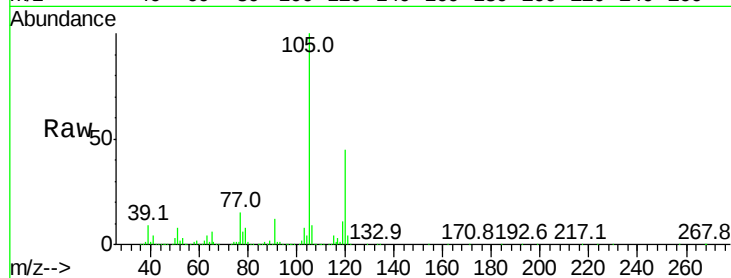




#73
 1,3,5-Trimethylbenzene
 Concen: 10.809 ppbv
 RT: 16.17 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

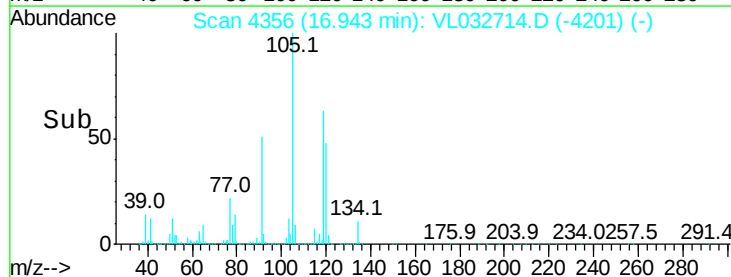
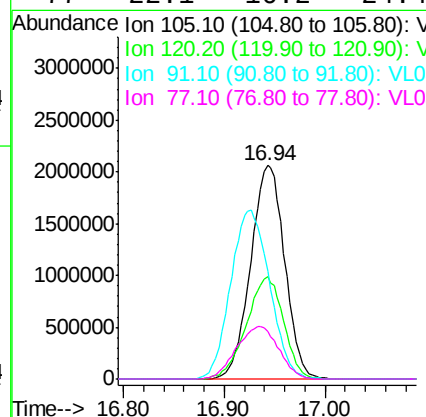
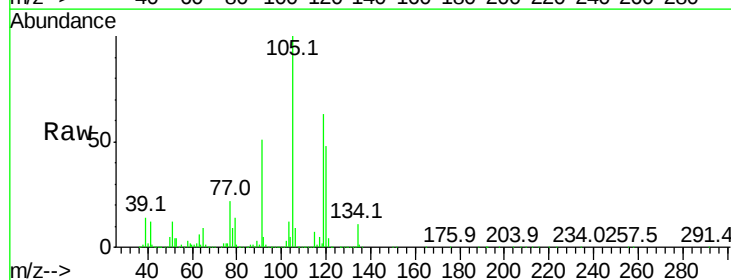
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

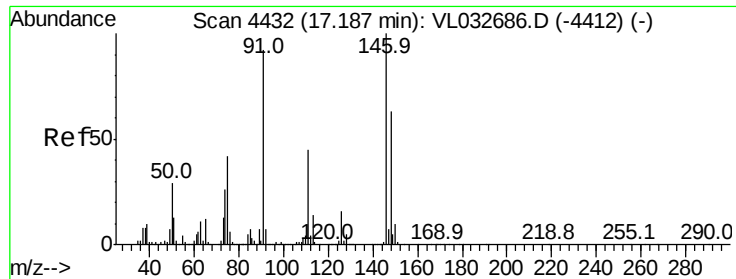
Tgt Ion:105 Resp: 4441375
 Ion Ratio Lower Upper
 105 100
 120 44.8 35.4 53.2



#74
 1,2,4-Trimethylbenzene
 Concen: 10.968 ppbv
 RT: 16.94 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion:105 Resp: 4813025
 Ion Ratio Lower Upper
 105 100
 120 48.1 35.8 53.8
 91 50.4 33.2 49.8#
 77 22.1 16.2 24.4





#75

1,3-Dichlorobenzene

Concen: 10.685 ppbv

RT: 17.18 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

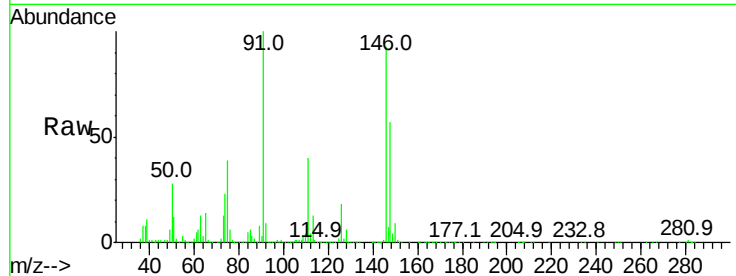
Tgt Ion:146 Resp: 2696117

Ion Ratio Lower Upper

146 100

111 46.8 24.4 73.2

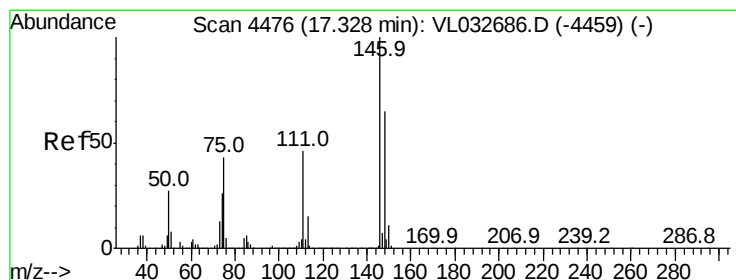
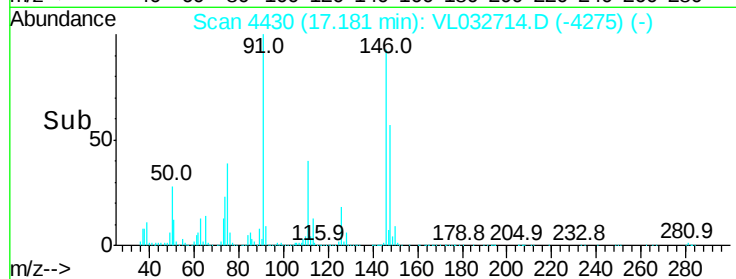
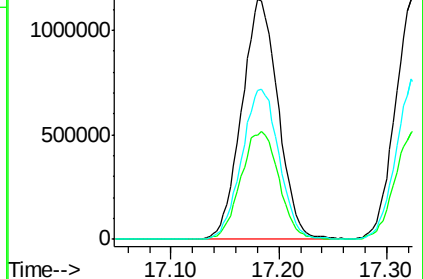
148 64.0 31.9 95.9



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: 11.402 ppbv

RT: 17.33 min Scan# 4475

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

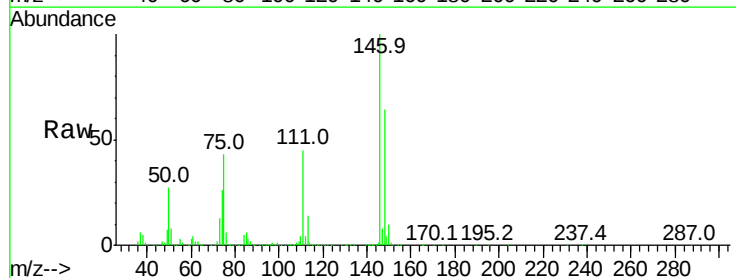
Tgt Ion:146 Resp: 2655187

Ion Ratio Lower Upper

146 100

111 45.3 23.7 71.1

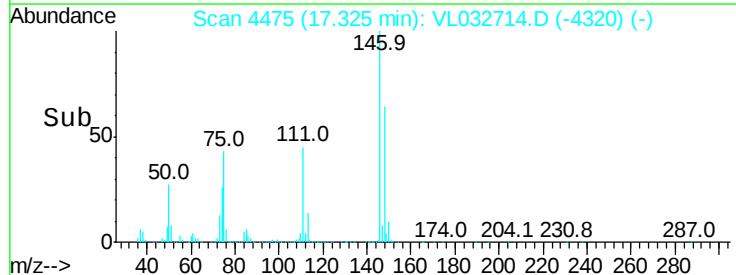
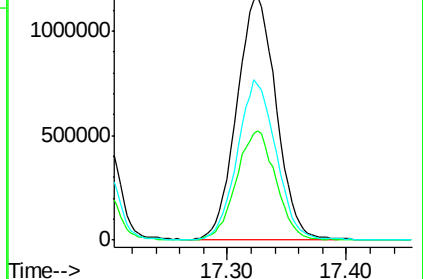
148 65.0 32.1 96.3

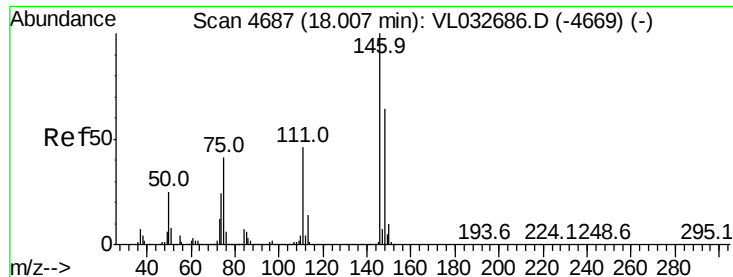


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 10.109 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

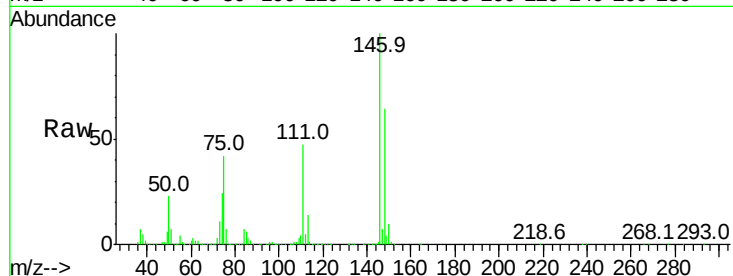
Tgt Ion:146 Resp: 2416666

Ion Ratio Lower Upper

146 100

111 48.3 25.3 75.8

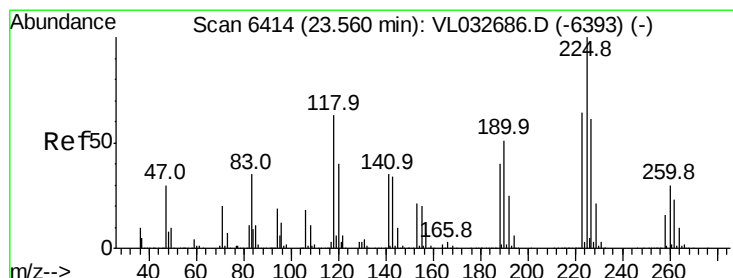
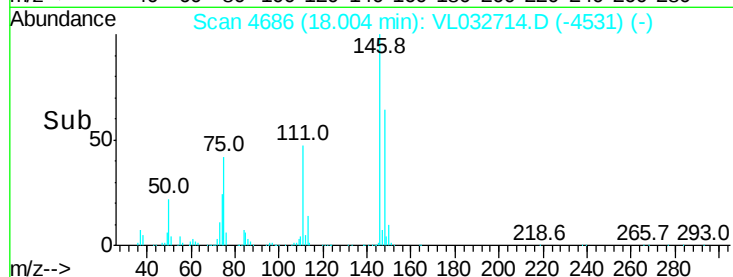
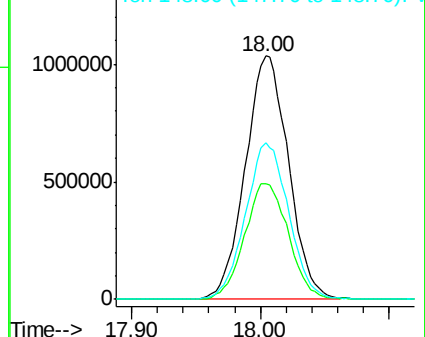
148 64.5 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.340 ppbv

RT: 23.56 min Scan# 6413

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

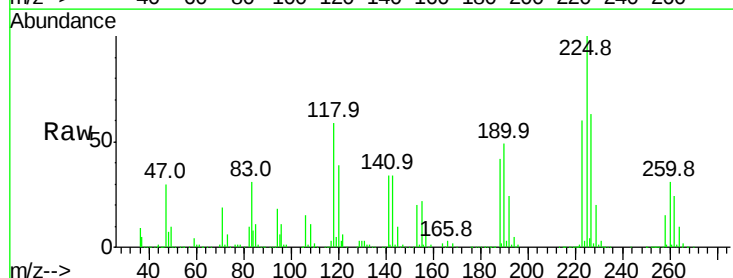
Tgt Ion:225 Resp: 1280887

Ion Ratio Lower Upper

225 100

223 63.1 50.7 76.1

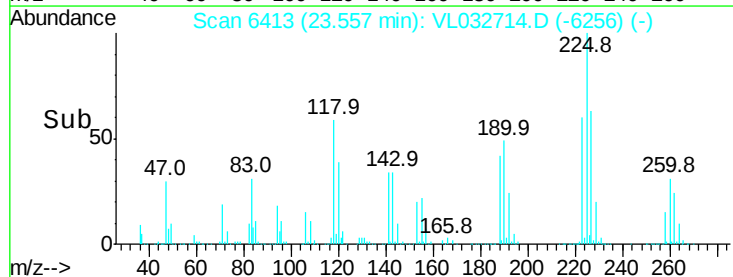
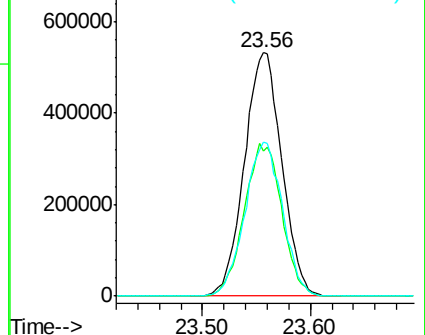
227 63.5 50.7 76.1

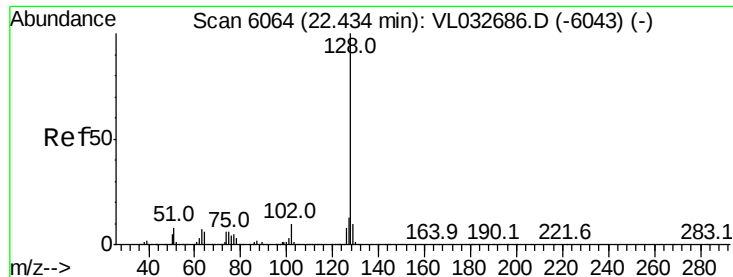


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.659 ppbv

RT: 22.43 min Scan# 6062

Delta R.T. -0.01 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

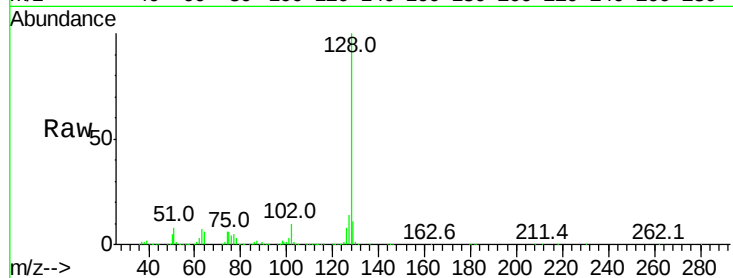
Tgt Ion:128 Resp: 3452760

Ion Ratio Lower Upper

128 100

127 13.6 10.3 15.5

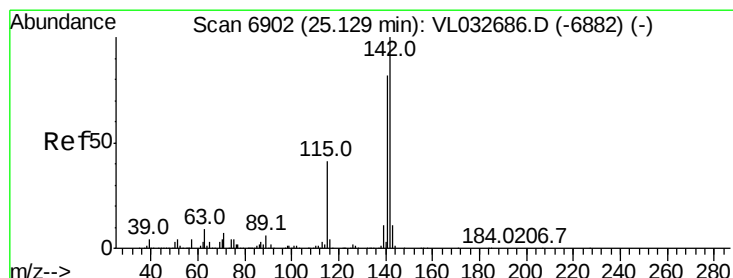
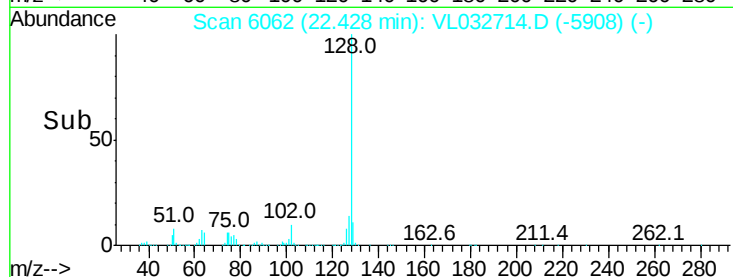
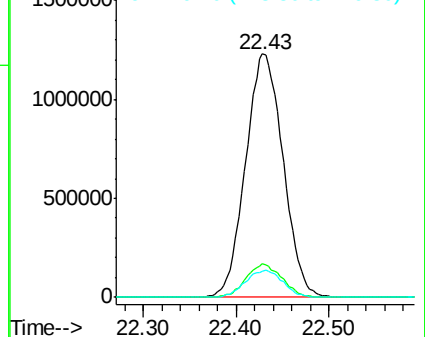
129 10.9 8.6 13.0



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: 18.762 ppbv

RT: 25.13 min Scan# 6901

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

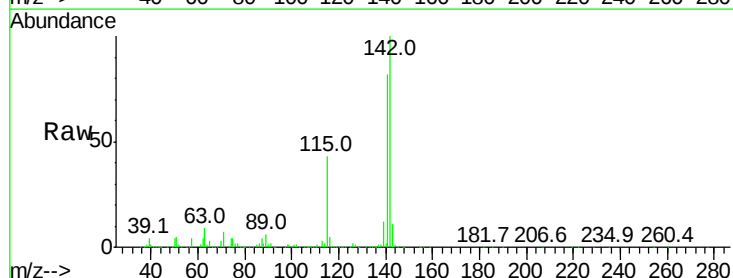
Tgt Ion:142 Resp: 1244380

Ion Ratio Lower Upper

142 100

141 84.0 67.5 101.3

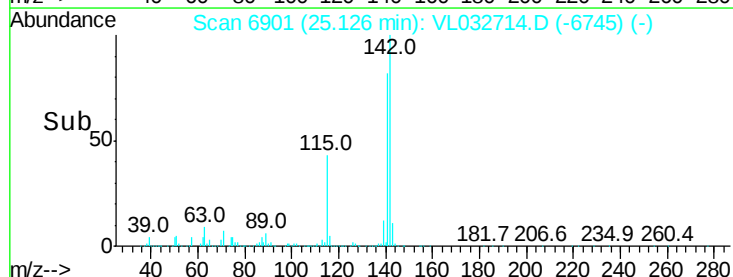
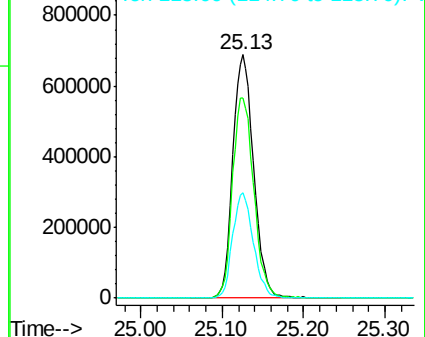
115 43.0 33.5 50.3

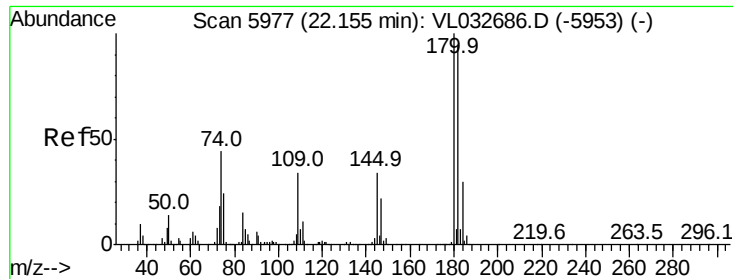


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 12.023 ppbv

RT: 22.15 min Scan# 5977

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

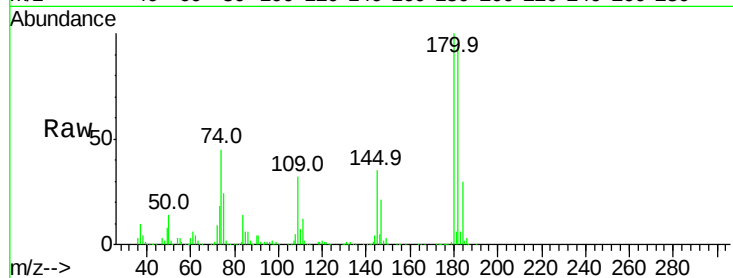
Tgt Ion:180 Resp: 1698391

Ion Ratio Lower Upper

180 100

182 95.7 76.5 114.7

184 30.4 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

