

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032437.D
 Acq On : 31 Aug 2018 4:27
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Aug 31 04:59:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 04:25:10 2018
 QLast Update : Fri Aug 31 04:25:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	2032019	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	4287889	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	5792587	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	3176019	7.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	73.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	2223385	12.219	ppbv	99
3) Chlorodifluoromethane	3.04	51	2555453	14.526	ppbv	100
4) Chloromethane	3.20	50	1590213	14.757	ppbv	97
5) Vinyl Chloride	3.32	62	1505353	15.792	ppbv	99
6) Bromomethane	3.55	94	842102	14.524	ppbv	99
7) Chloroethane	3.64	64	553277	14.765	ppbv	100
8) Dichlorotetrafluoroethane	3.25	85	3043586	13.614	ppbv	100
9) Propene	3.07	41	1218520	17.521	ppbv	99
10) Heptane	8.30	43	4147257	16.504	ppbv	99
11) Trichlorofluoromethane	4.04	101	3125982	13.707	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.59	101	2127301	13.955	ppbv	99
13) Ethanol	3.68	45	266175	11.823	ppbv	96
14) Bromoethene	3.82	108	990126	14.968	ppbv	100
15) Acetone	3.94	43	2455709	12.669	ppbv	100
16) 1,3-Butadiene	3.40	39	1299454	16.076	ppbv	91
17) tert-Butyl alcohol	4.40	59	416976	13.115	ppbv	98
18) 1,1-Dichloroethene	4.40	96	1045006	14.945	ppbv	96
19) Isopropyl Alcohol	4.06	45	1739773	14.244	ppbv #	98
20) Methylene Chloride	4.45	84	920650	12.793	ppbv	94
21) Allyl Chloride	4.52	41	1843742	15.078	ppbv	100
22) trans-1,2-Dichloroethene	5.01	96	1097925	14.556	ppbv	97
23) Vinyl Acetate	5.20	43	4680093	15.670	ppbv	98
24) 1,1-Dichloroethane	5.14	63	3351705	13.991	ppbv	100
25) Ethyl Acetate	5.82	43	6025368	14.722	ppbv	100
26) Hexane	5.83	57	2802523	15.281	ppbv	100
27) Carbon Disulfide	4.66	76	2759646	15.676	ppbv	99
28) Methyl tert-Butyl Ether	5.16	73	3611735	15.963	ppbv	100
29) Chloroform	5.90	83	4092711	14.446	ppbv	99
30) Cyclohexane	7.30	84	2284693	16.866	ppbv	99
31) cis-1,2-Dichloroethene	5.69	61	2787441	16.648	ppbv	99
32) 1,1,1-Trichloroethane	6.68	97	3781803	15.461	ppbv	99
34) 2-Butanone	5.38	43	3914506	14.343	ppbv	100
35) Carbon Tetrachloride	7.19	117	3786885	14.262	ppbv	99
36) Benzene	7.06	78	5395644	15.199	ppbv	99
37) 1,2-Dichloroethane	6.47	62	3096826	14.081	ppbv	100
38) Trichloroethene	8.02	130	1862655	15.708	ppbv	99
39) 1,2-Dichloropropane	7.79	63	2228912	14.948	ppbv	99
40) 1,4-Dioxane	8.01	88	608648	13.690	ppbv #	1
41) Tetrahydrofuran	6.20	42	2477142	16.957	ppbv	99
42) Bromodichloromethane	7.97	83	4257536	14.164	ppbv	98
43) Methyl Methacrylate	8.19	69	2549009	17.433	ppbv	100

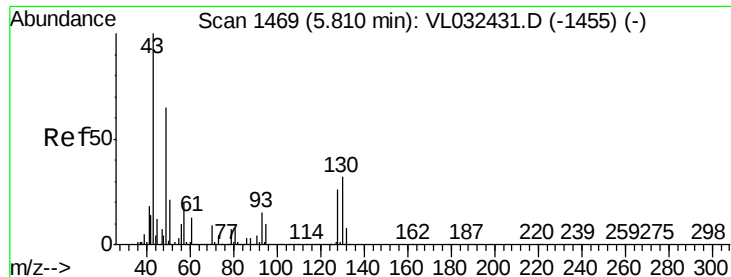
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 04:25:10 2018
 QLast Update : Fri Aug 31 04:25:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.04	57	9395687	14.181	ppbv	99
45) t-1,3-Dichloropropene	9.47	75	3082337	17.743	ppbv	98
46) cis-1,3-Dichloropropene	8.89	75	3556076	16.728	ppbv	100
47) 1,1,2-Trichloroethane	9.67	97	2336166	14.631	ppbv	99
48) Dibromochloromethane	10.51	129	3313062	14.726	ppbv	100
49) Bromoform	13.26	173	2868339	14.516	ppbv	99
50) 4-Methyl-2-Pentanone	8.92	43	6366187	15.041	ppbv	99
51) 2-Hexanone	10.33	43	4599655	16.455	ppbv	99
52) Tetrachloroethene	11.43	164	1602800	15.738	ppbv	98
53) Toluene	10.01	91	6500485	17.481	ppbv	99
54) 1,2-Dibromoethane	10.82	107	3122986	13.543	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.34	131	2454608	9.847	ppbv #	69
57) Chlorobenzene	12.36	112	4391925	9.896	ppbv	99
58) Ethyl Benzene	12.93	91	8049560	12.186	ppbv	99
59) m/p-Xylene	13.21	91	5971468	10.147	ppbv #	11
60) o-Xylene	13.91	91	6302787	11.149	ppbv	98
61) Styrene	13.75	104	4911838	12.929	ppbv	100
62) Isopropylbenzene	14.89	105	8940084	11.170	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	4826447	9.771	ppbv	100
64) n-propylbenzene	15.78	120	2382917	11.387	ppbv	97
65) tert-Butylbenzene	16.97	119	7379994	10.738	ppbv	100
66) Benzyl Chloride	17.22	91	4736440	11.112	ppbv	100
67) sec-Butylbenzene	17.52	105	11033468	10.793	ppbv	100
69) p-Isopropyltoluene	17.88	119	8904326	11.361	ppbv	100
70) n-Butylbenzene	18.77	91	9765833	11.236	ppbv	99
71) 2-Chlorotoluene	15.68	91	7166498	11.716	ppbv	100
72) 4-Ethyltoluene	16.06	105	7553467	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	7138763	12.132	ppbv	98
74) 1,2,4-Trimethylbenzene	16.99	105	6902826	10.868	ppbv	94
75) 1,3-Dichlorobenzene	17.23	146	3932064	9.707	ppbv	100
76) 1,4-Dichlorobenzene	17.37	146	4035135	10.836	ppbv	100
77) 1,2-Dichlorobenzene	18.05	146	4055014	10.423	ppbv	100
78) Hexachloro-1,3-Butadiene	23.59	225	1489480	8.872	ppbv	99
79) Naphthalene	22.48	128	6939665	16.432	ppbv	98
80) Naphthalene,2-methyl-	25.15	142	2692027	24.352	ppbv	99
81) 1,2,4-Trichlorobenzene	22.20	180	3239042	14.141	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1469

Delta R.T. 0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC015

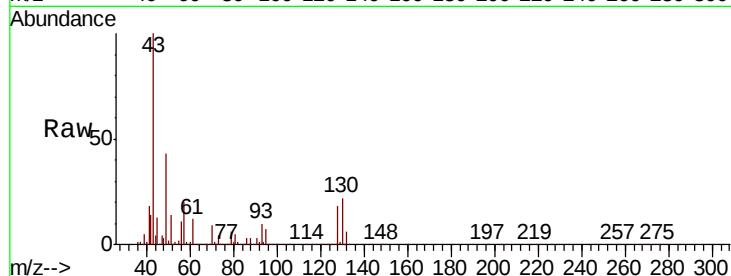
Tgt Ion: 49 Resp: 2032019

Ion Ratio Lower Upper

49 100

128 41.6 20.7 62.1

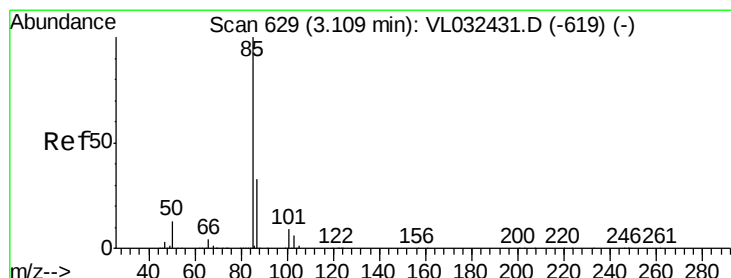
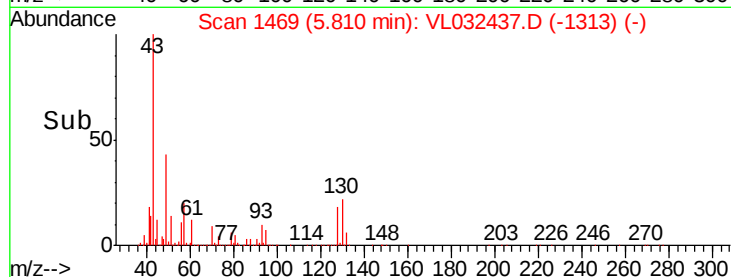
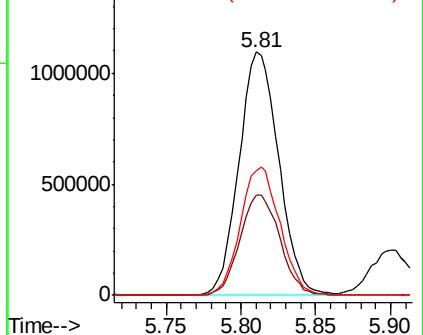
130 53.0 26.7 80.0



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: 12.219 ppbv

RT: 3.11 min Scan# 628

Delta R.T. -0.00 min

Lab File: VL032437.D

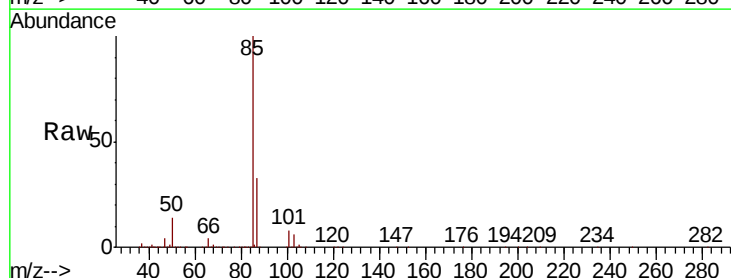
Acq: 31 Aug 2018 4:27

Tgt Ion: 85 Resp: 2223385

Ion Ratio Lower Upper

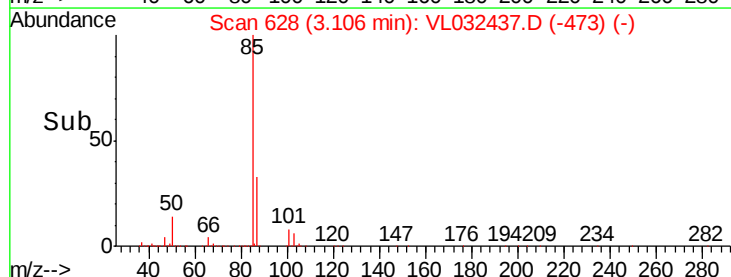
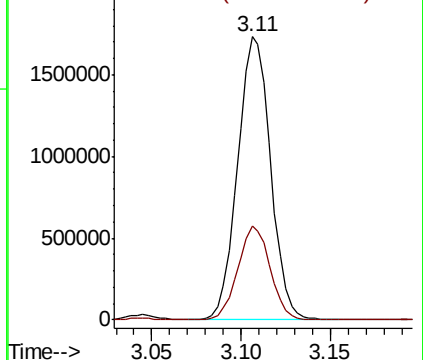
85 100

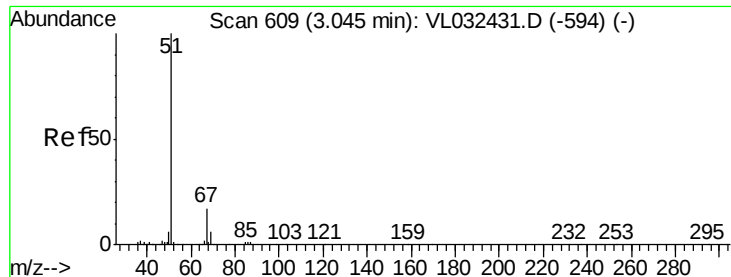
87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 14.526 ppbv

RT: 3.04 min Scan# 609

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

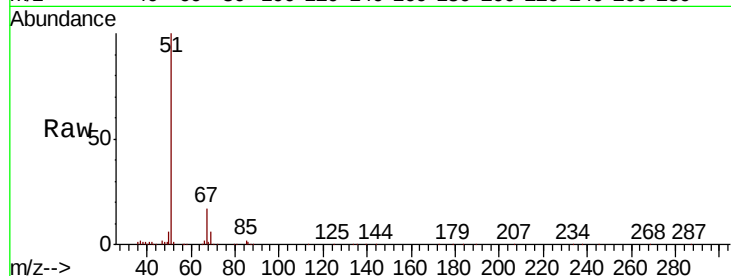
VSTDIC015

Tgt Ion: 51 Resp: 2555453

Ion Ratio Lower Upper

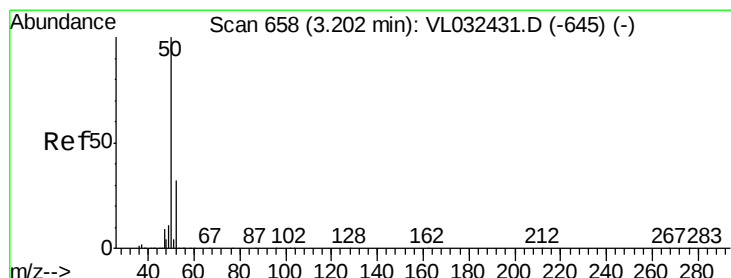
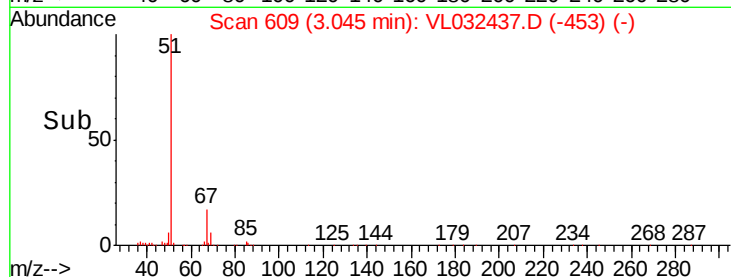
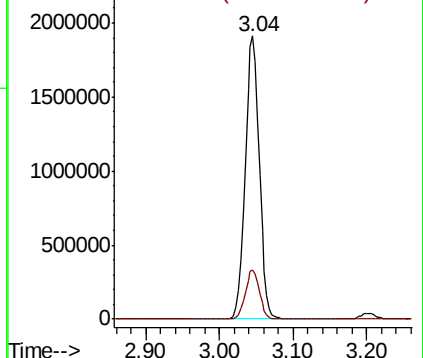
51 100

67 17.5 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.757 ppbv

RT: 3.20 min Scan# 658

Delta R.T. 0.00 min

Lab File: VL032437.D

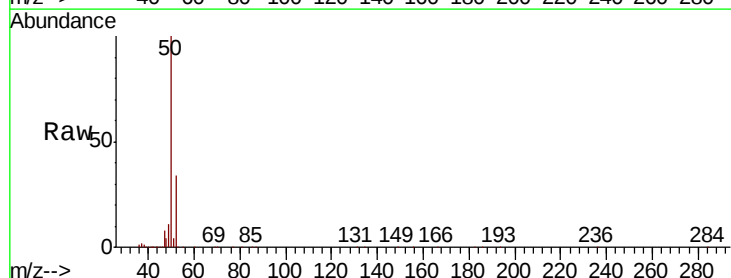
Acq: 31 Aug 2018 4:27

Tgt Ion: 50 Resp: 1590213

Ion Ratio Lower Upper

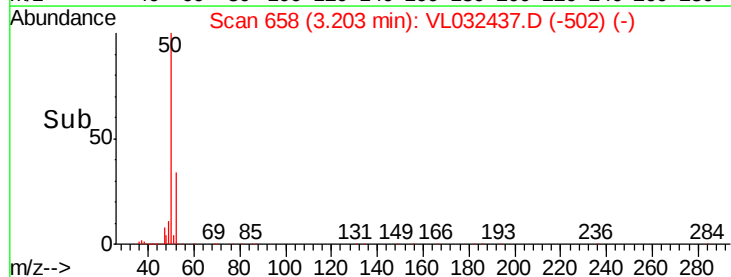
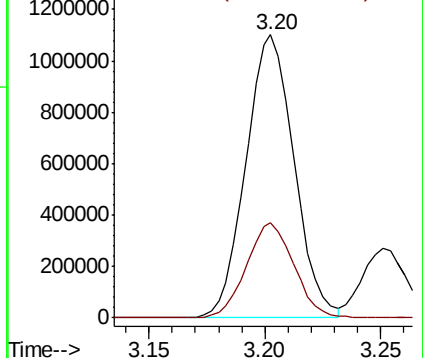
50 100

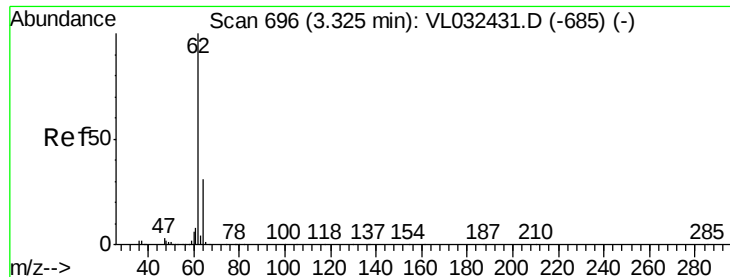
52 33.5 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 15.792 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

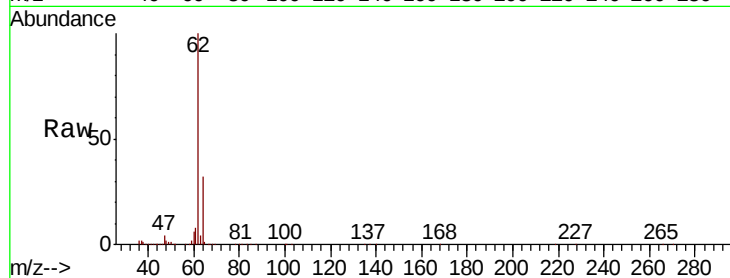
VSTDIC015

Tgt Ion: 62 Resp: 1505353

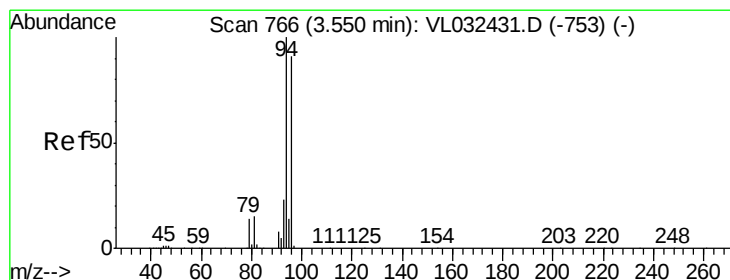
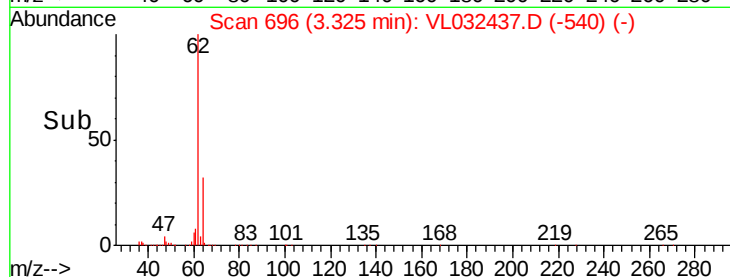
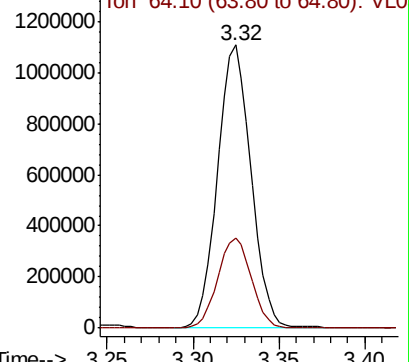
Ion Ratio Lower Upper

62 100

64 31.8 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0



#6

Bromomethane

Concen: 14.524 ppbv

RT: 3.55 min Scan# 766

Delta R.T. 0.00 min

Lab File: VL032437.D

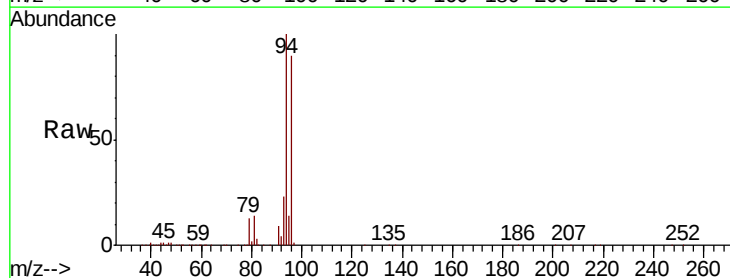
Acq: 31 Aug 2018 4:27

Tgt Ion: 94 Resp: 842102

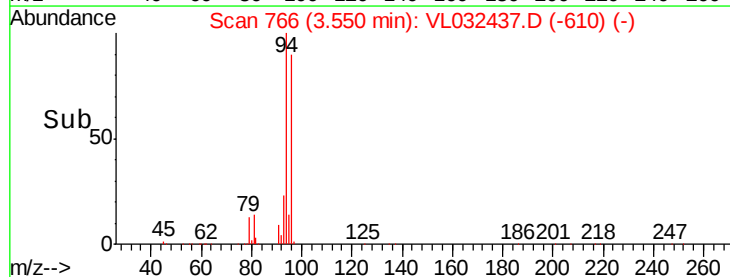
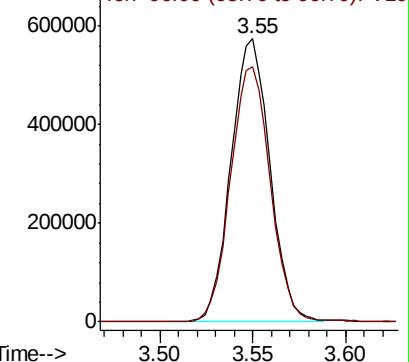
Ion Ratio Lower Upper

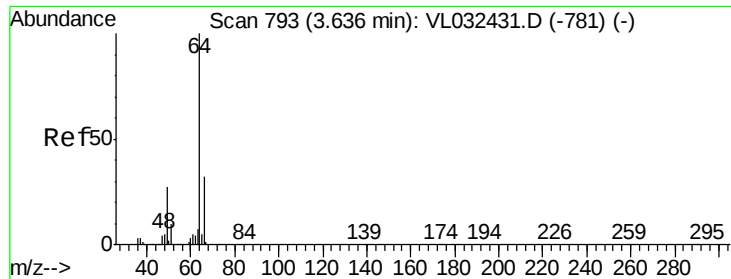
94 100

96 90.3 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0





#7

Chloroethane

Concen: 14.765 ppbv

RT: 3.64 min Scan# 793

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

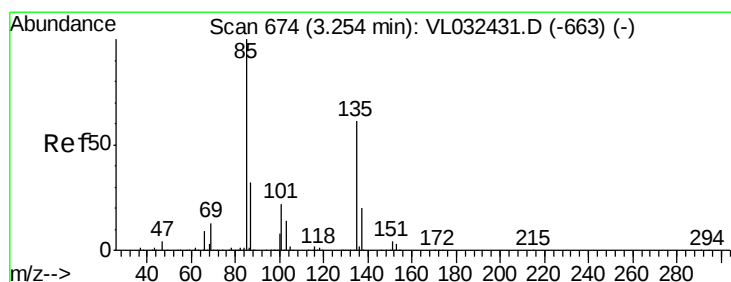
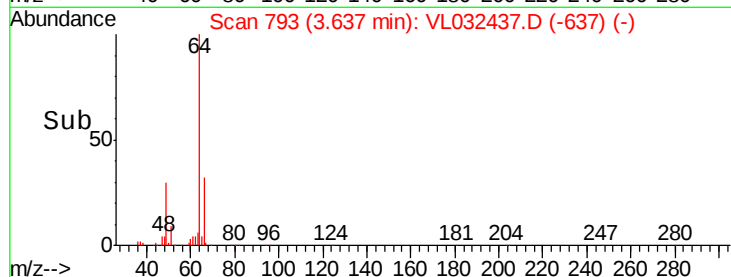
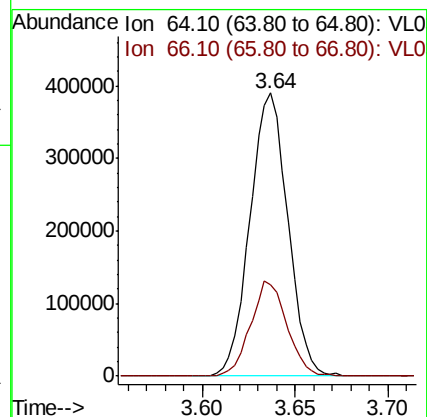
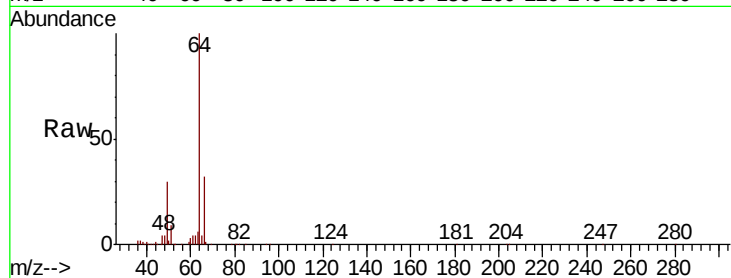
VSTDIC015

Tgt Ion: 64 Resp: 553277

Ion Ratio Lower Upper

64 100

66 32.4 25.8 38.6



#8

Dichlorotetrafluoroethane

Concen: 13.614 ppbv

RT: 3.25 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032437.D

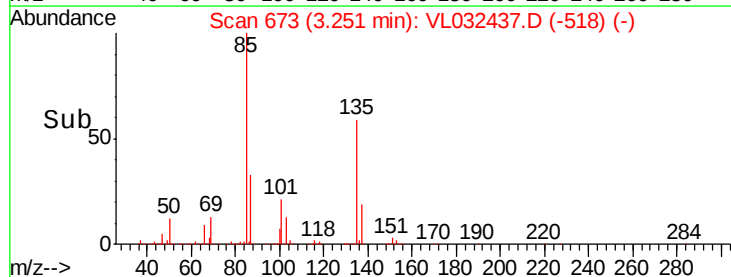
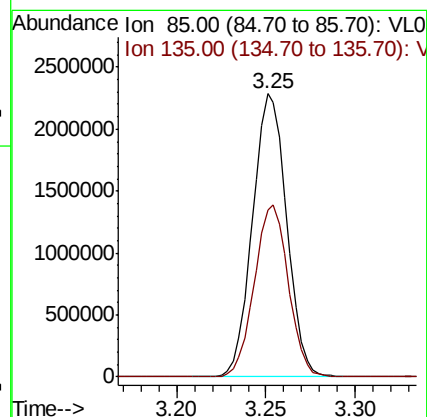
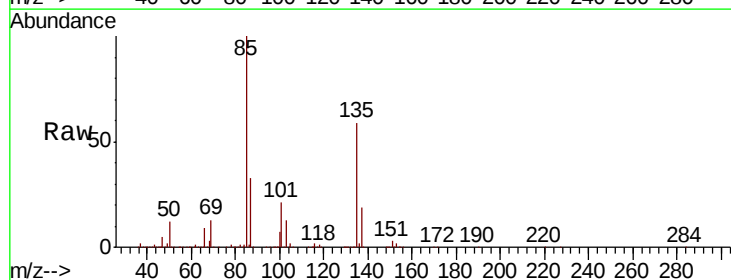
Acq: 31 Aug 2018 4:27

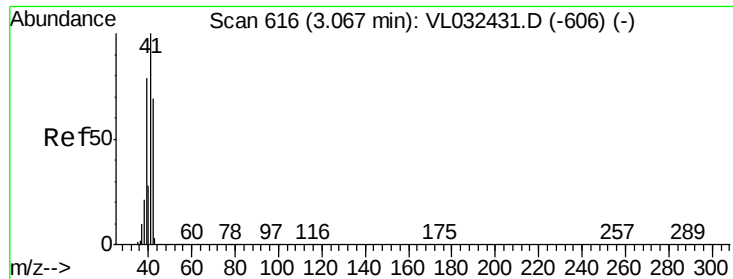
Tgt Ion: 85 Resp: 3043586

Ion Ratio Lower Upper

85 100

135 60.9 48.6 72.8





#9

Propene

Concen: 17.521 ppbv

RT: 3.07 min Scan# 616

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

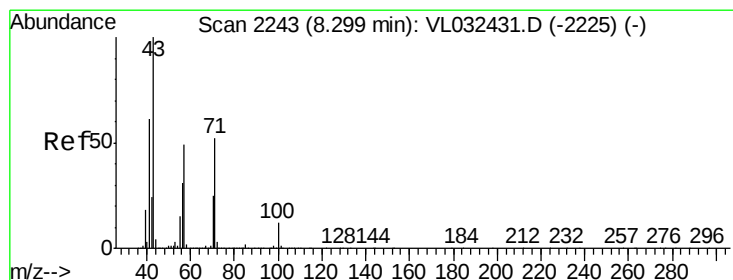
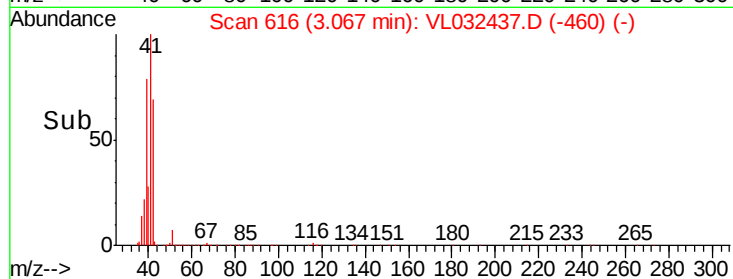
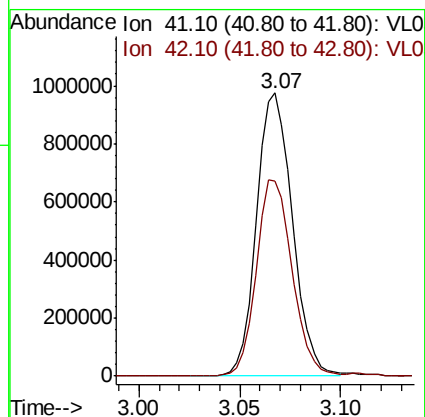
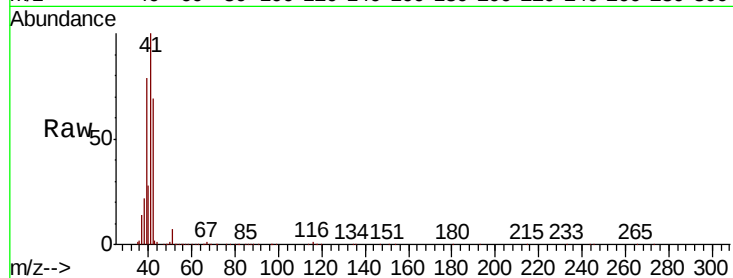
VSTDIC015

Tgt Ion: 41 Resp: 1218520

Ion Ratio Lower Upper

41 100

42 70.1 56.6 84.8



#10

Heptane

Concen: 16.504 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VL032437.D

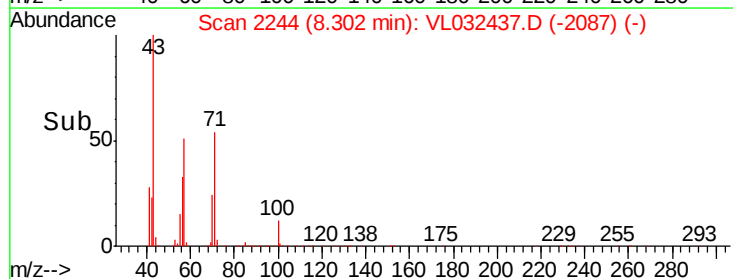
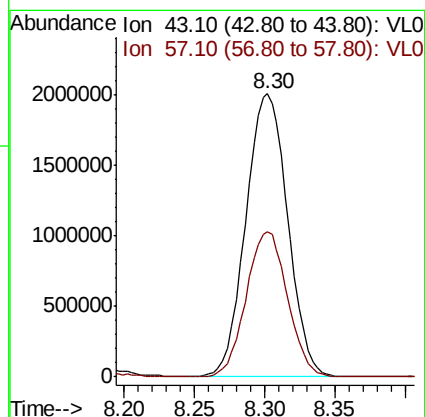
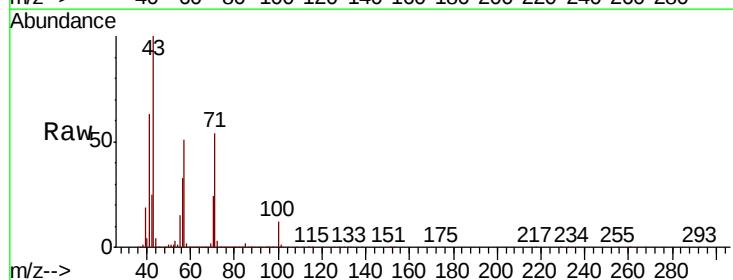
Acq: 31 Aug 2018 4:27

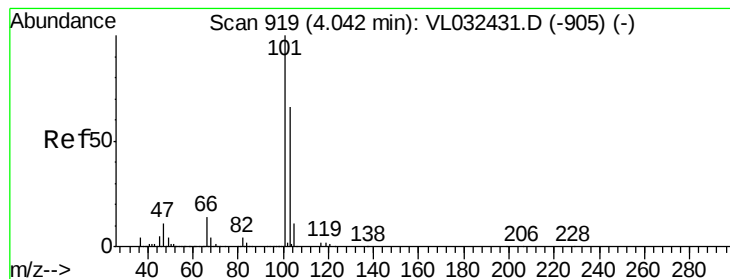
Tgt Ion: 43 Resp: 4147257

Ion Ratio Lower Upper

43 100

57 50.6 39.8 59.6





#11

Trichlorofluoromethane

Concen: 13.707 ppbv

RT: 4.04 min Scan# 919

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

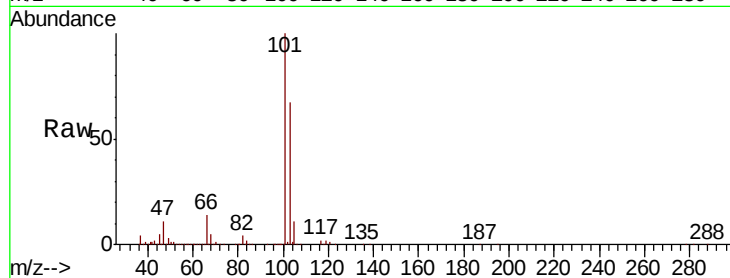
VSTDIC015

Tgt Ion:101 Resp: 3125982

Ion Ratio Lower Upper

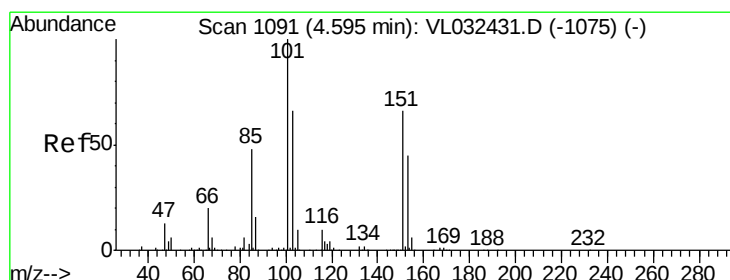
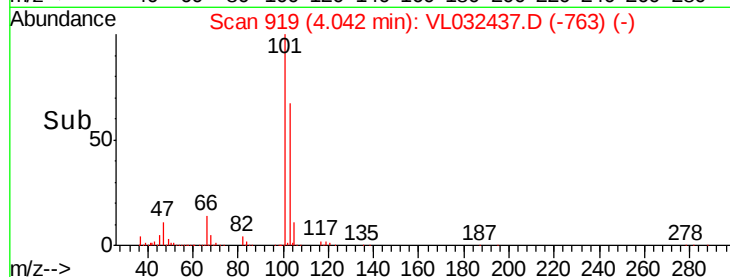
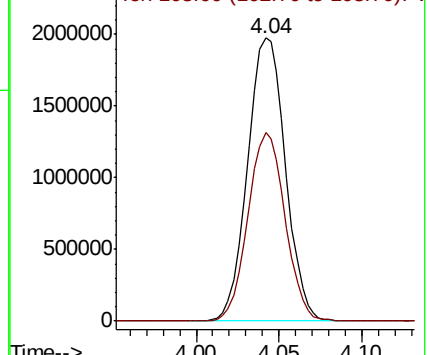
101 100

103 66.7 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 13.955 ppbv

RT: 4.59 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VL032437.D

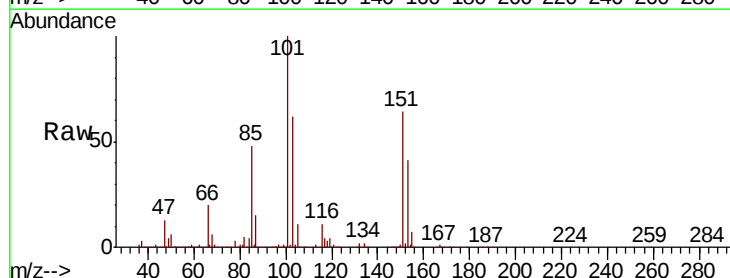
Acq: 31 Aug 2018 4:27

Tgt Ion:101 Resp: 2127301

Ion Ratio Lower Upper

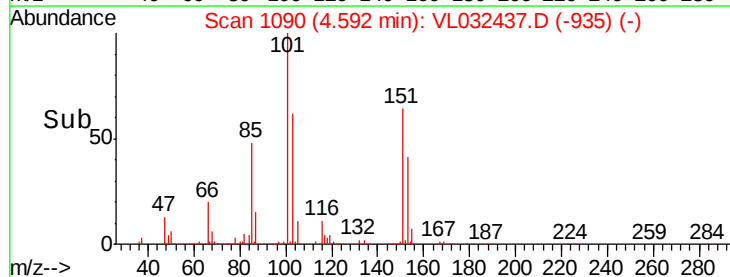
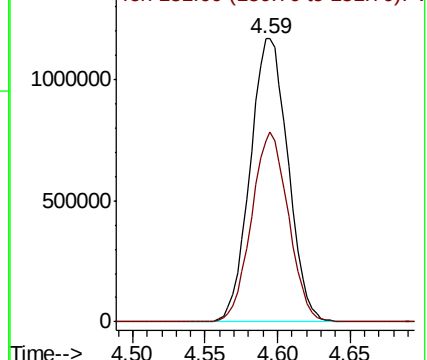
101 100

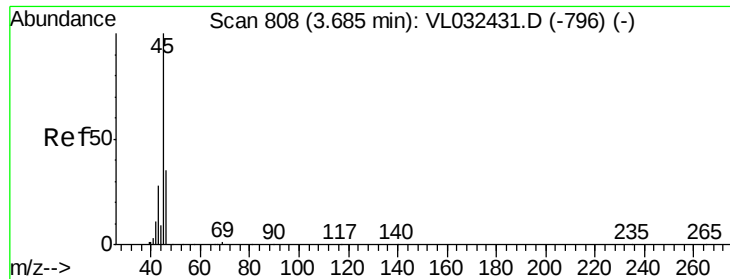
151 65.2 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 11.823 ppbv

RT: 3.68 min Scan# 808

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

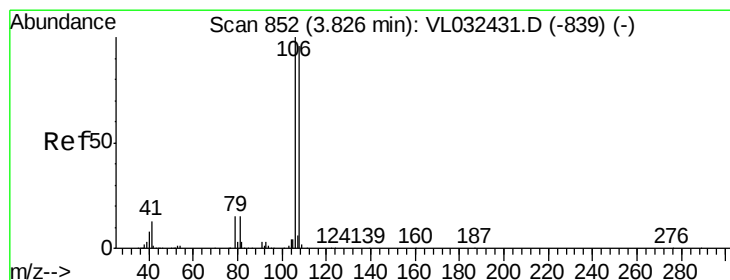
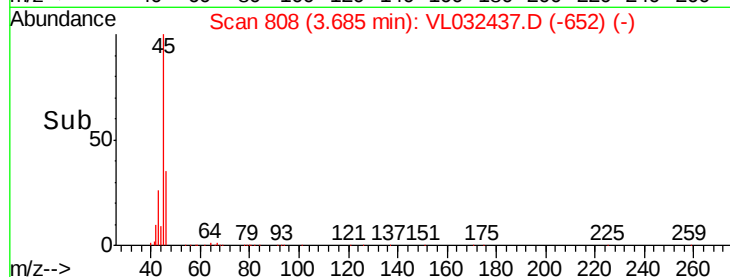
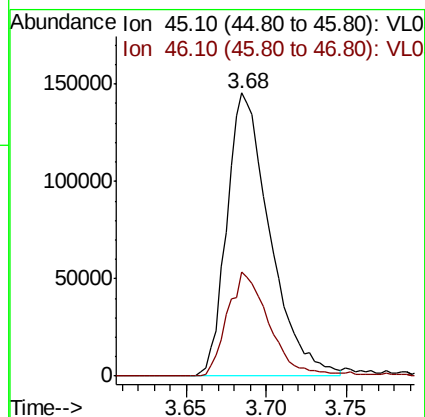
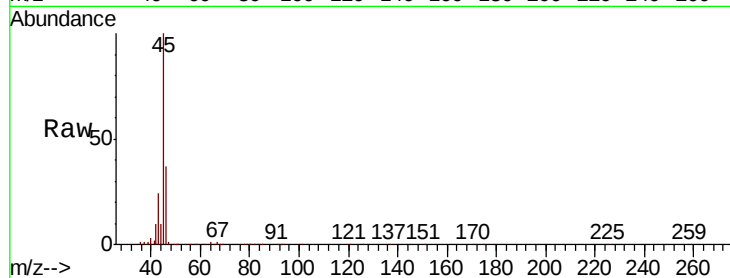
VSTDIC015

Tgt Ion: 45 Resp: 266175

Ion Ratio Lower Upper

45 100

46 37.3 13.9 55.7



#14

Bromoethene

Concen: 14.968 ppbv

RT: 3.82 min Scan# 851

Delta R.T. -0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

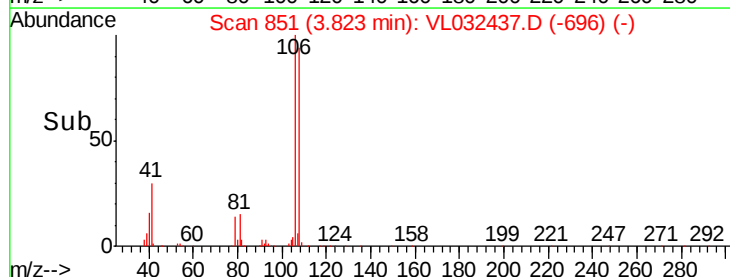
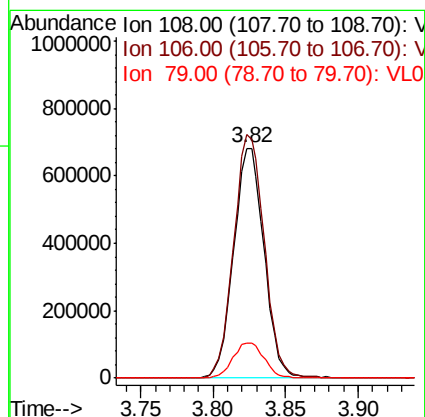
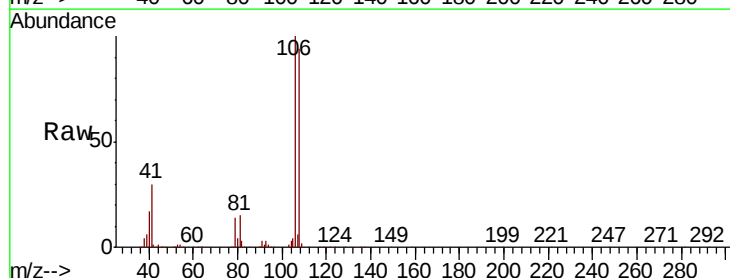
Tgt Ion: 108 Resp: 990126

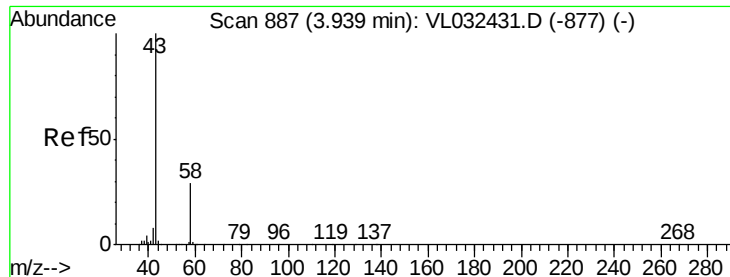
Ion Ratio Lower Upper

108 100

106 107.3 85.5 128.3

79 16.1 13.0 19.6





#15

Acetone

Concen: 12.669 ppbv

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

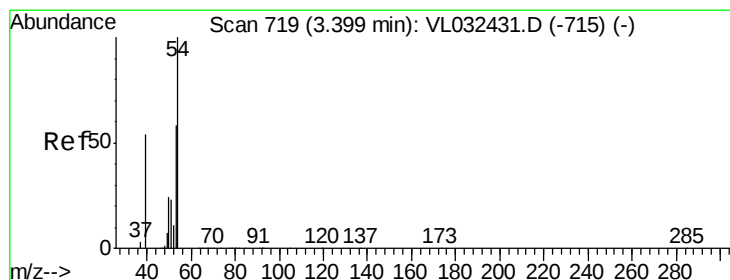
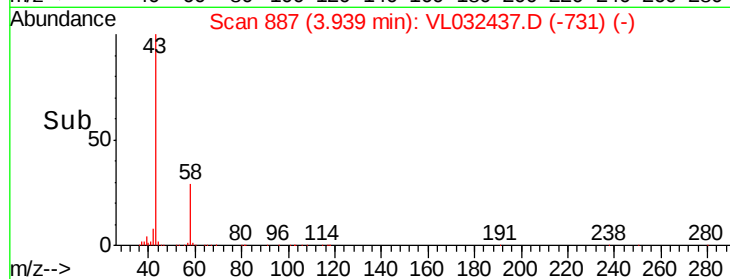
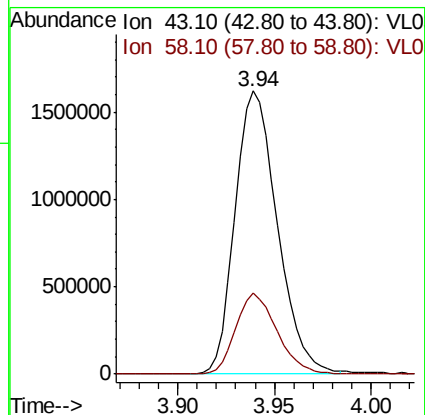
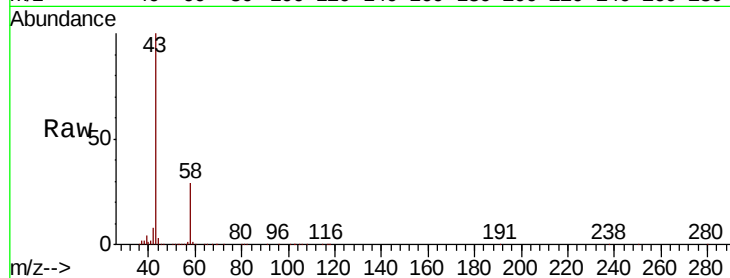
VSTDIC015

Tgt Ion: 43 Resp: 2455709

Ion Ratio Lower Upper

43 100

58 28.1 22.6 33.8



#16

1,3-Butadiene

Concen: 16.076 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL032437.D

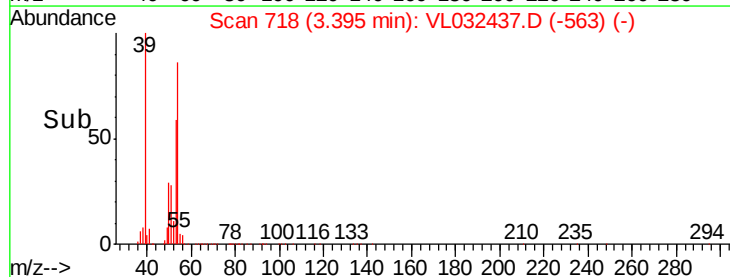
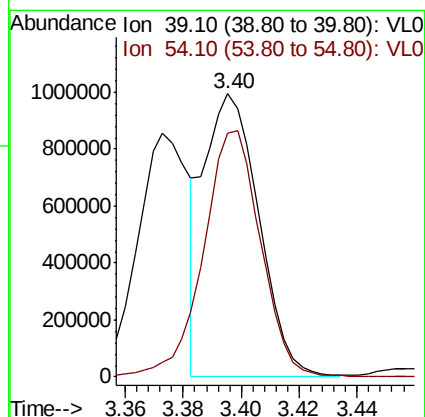
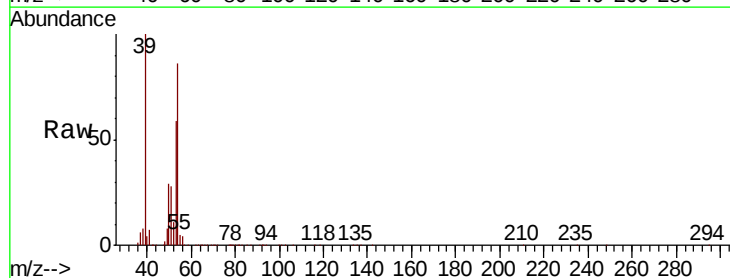
Acq: 31 Aug 2018 4:27

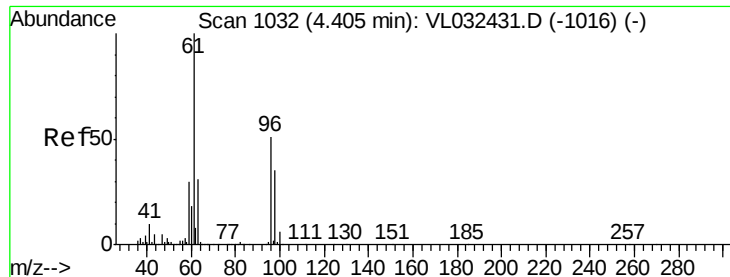
Tgt Ion: 39 Resp: 1299454

Ion Ratio Lower Upper

39 100

54 92.2 80.8 121.2

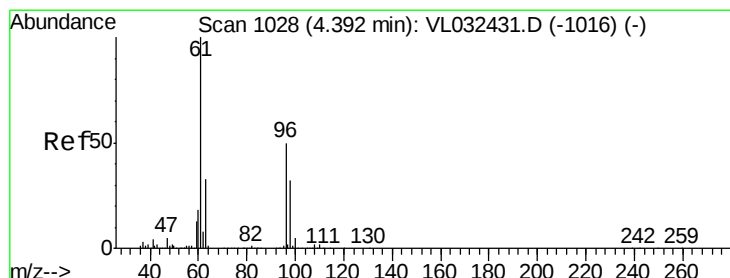
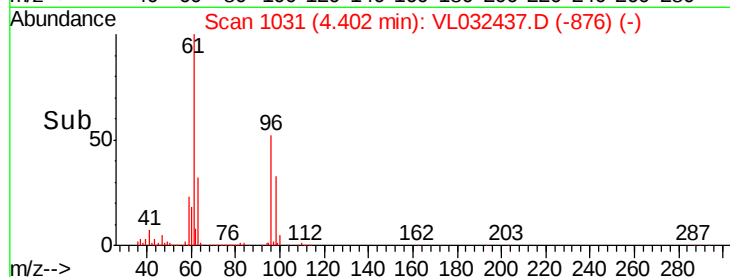
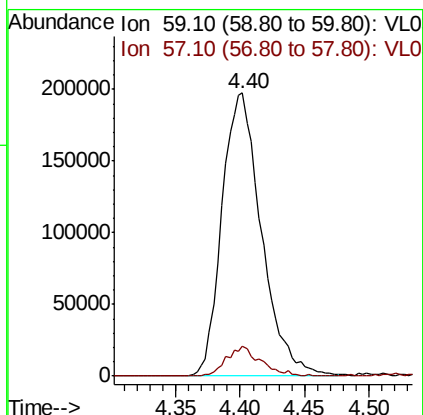
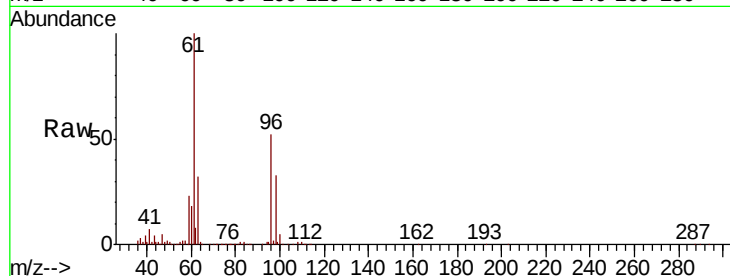




#17
 tert-Butyl alcohol
 Concen: 13.115 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

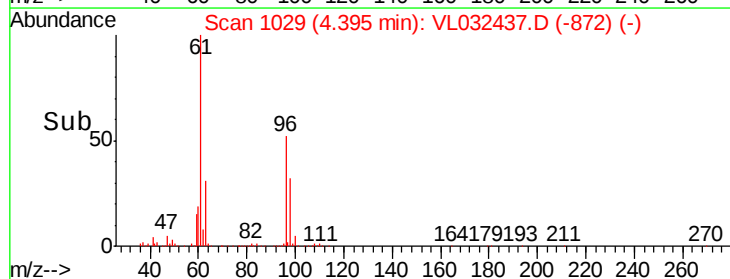
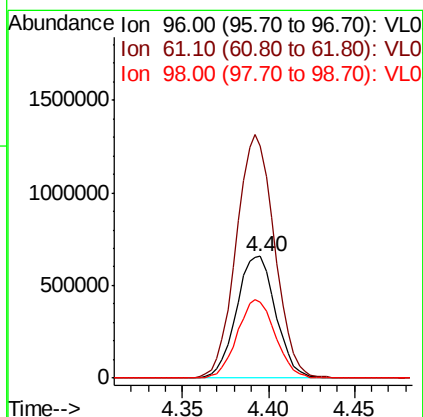
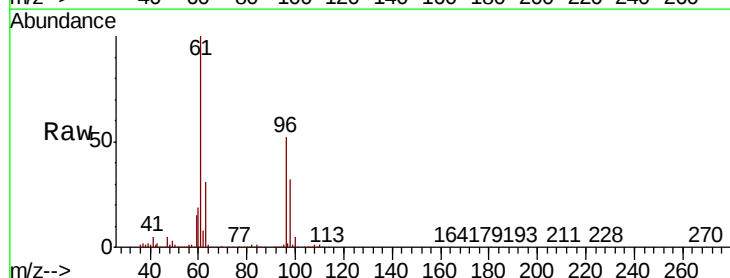
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

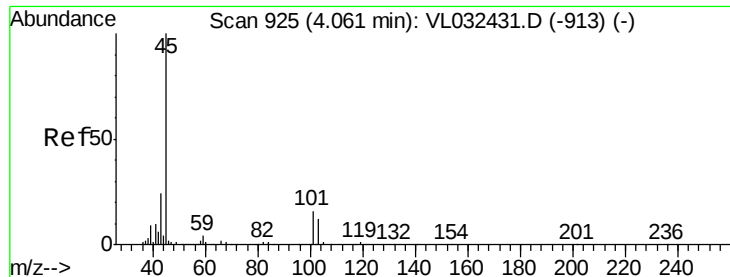
Tgt Ion: 59 Resp: 416976
 Ion Ratio Lower Upper
 59 100
 57 9.3 7.0 10.4



#18
 1,1-Dichloroethene
 Concen: 14.945 ppbv
 RT: 4.40 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion: 96 Resp: 1045006
 Ion Ratio Lower Upper
 96 100
 61 191.4 159.2 238.8
 98 62.1 51.0 76.4



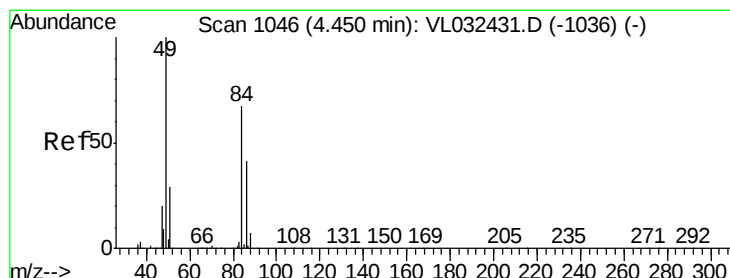
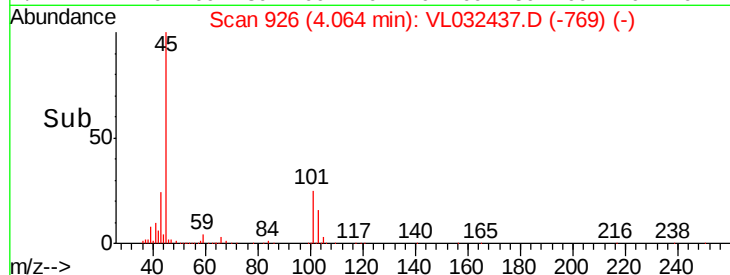
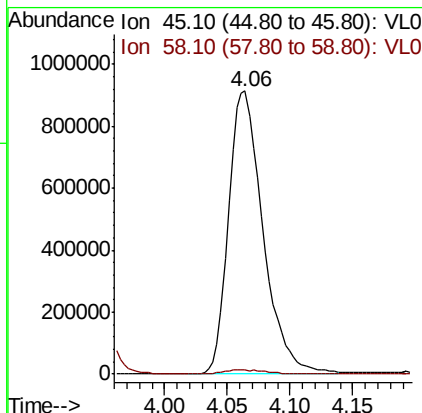
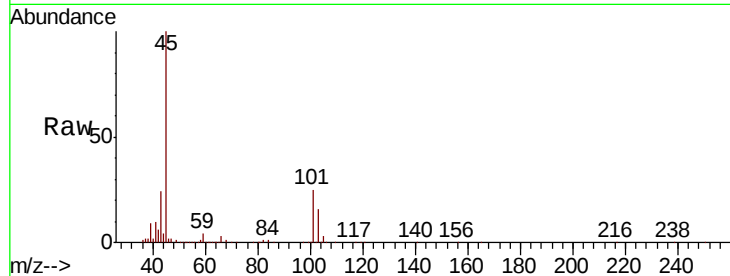


#19

Isopropyl Alcohol
 Concen: 14.244 ppbv
 RT: 4.06 min Scan# 926
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

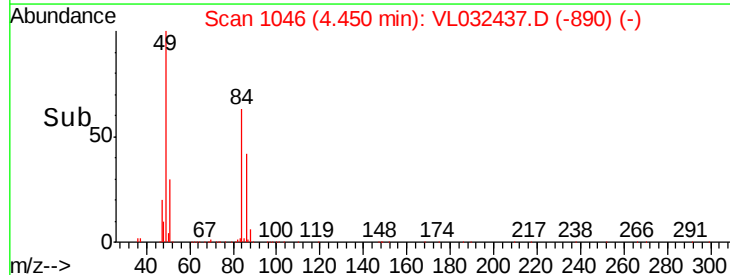
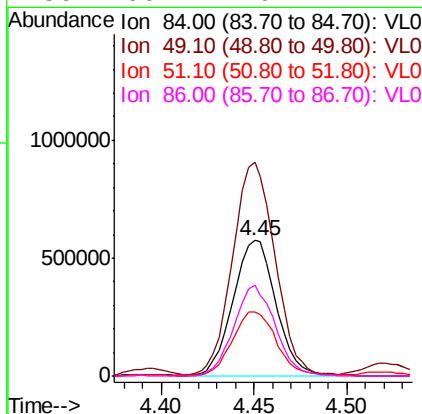
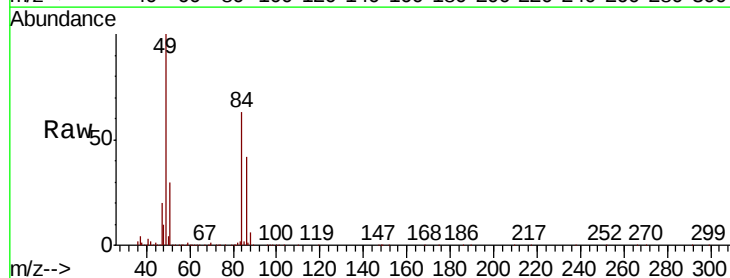
Tgt Ion: 45 Resp: 1739773
 Ion Ratio Lower Upper
 45 100
 58 2.0 2.0 3.0#

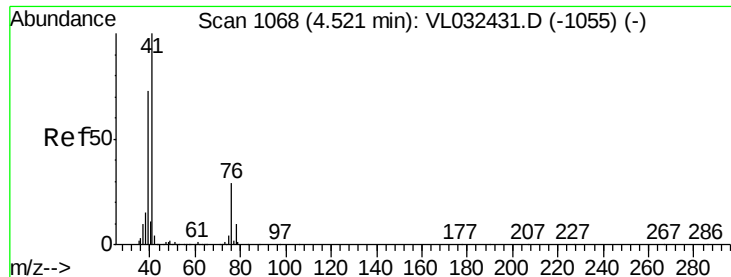


#20

Methylene Chloride
 Concen: 12.793 ppbv
 RT: 4.45 min Scan# 1046
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion: 84 Resp: 920650
 Ion Ratio Lower Upper
 84 100
 49 157.2 119.1 178.7
 51 47.2 35.2 52.8
 86 66.7 49.4 74.2

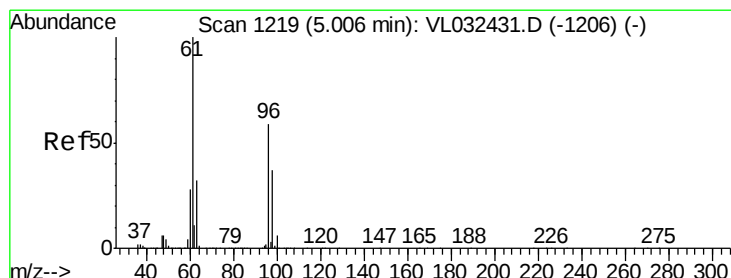
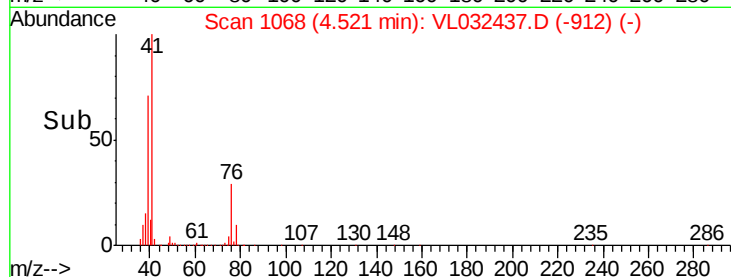
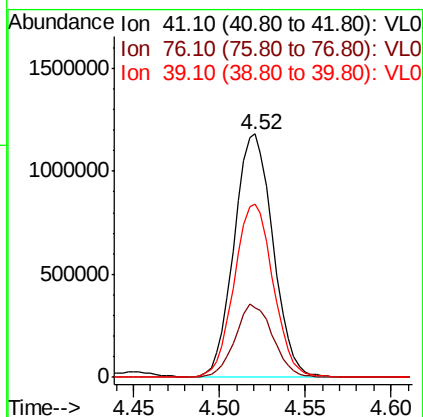
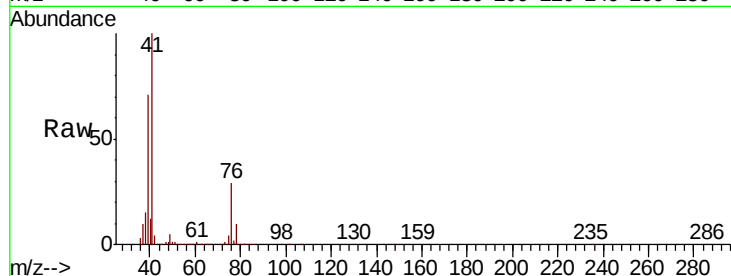




#21
 Allyl Chloride
 Concen: 15.078 ppbv
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

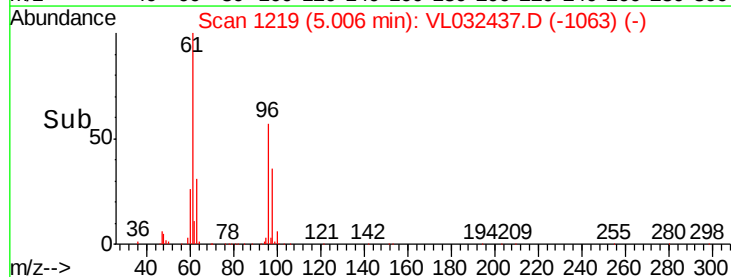
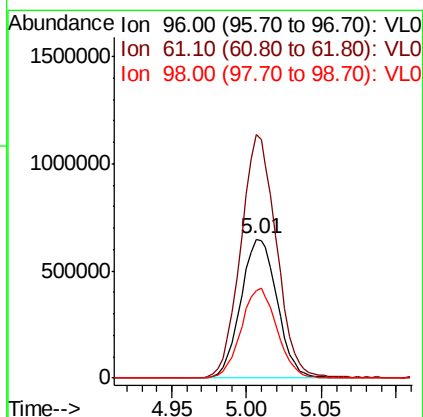
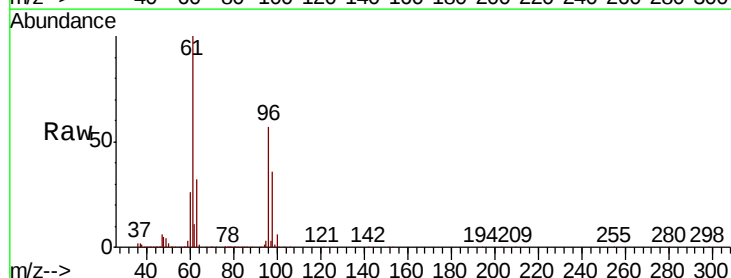
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

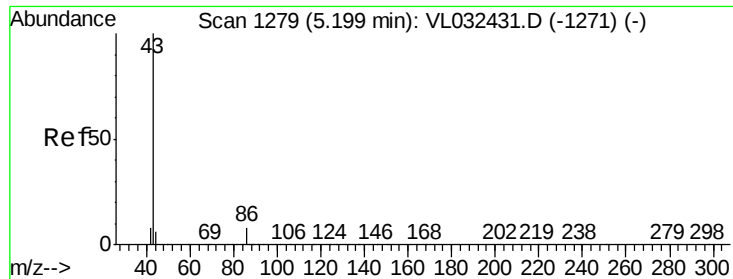
Tgt Ion: 41 Resp: 1843742
 Ion Ratio Lower Upper
 41 100
 76 29.3 23.6 35.4
 39 71.7 57.7 86.5



#22
 trans-1,2-Dichloroethene
 Concen: 14.556 ppbv
 RT: 5.01 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion: 96 Resp: 1097925
 Ion Ratio Lower Upper
 96 100
 61 175.0 136.2 204.4
 98 62.5 50.4 75.6



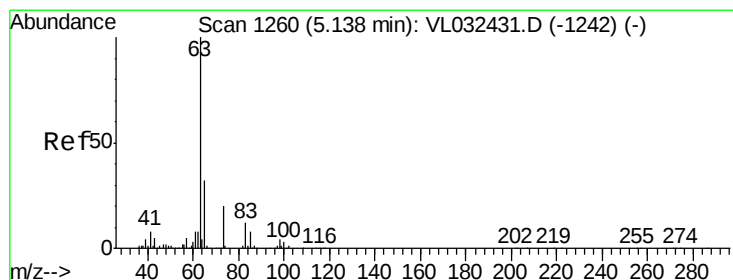
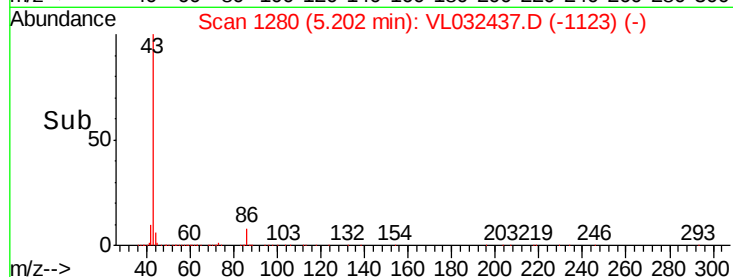
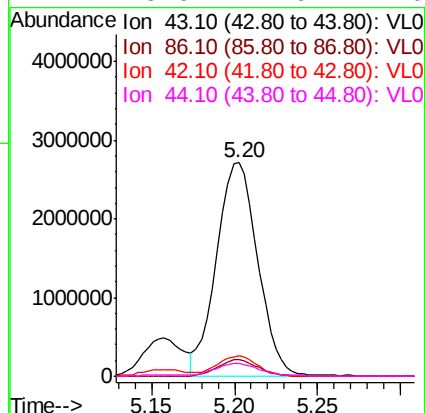
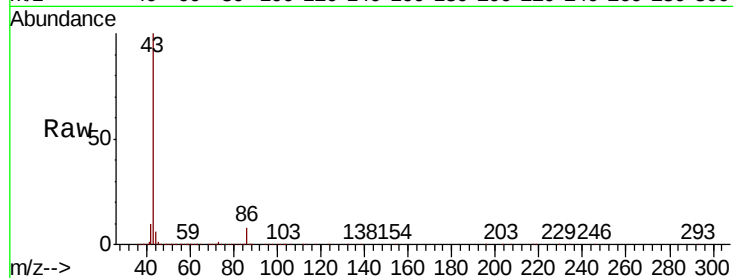


#23
 Vinyl Acetate
 Concen: 15.670 ppbv
 RT: 5.20 min Scan# 1280
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 4680093

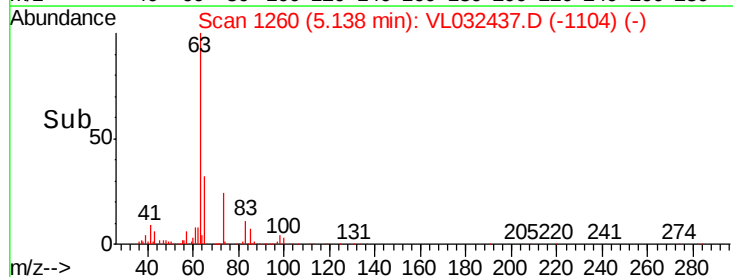
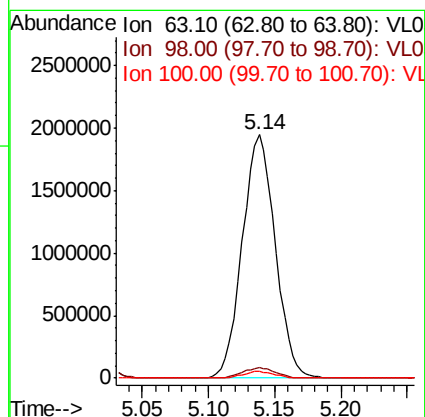
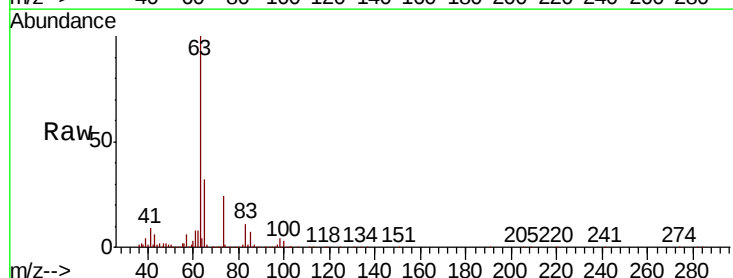
Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.9	8.9
42	9.5	6.9	10.3
44	5.9	4.6	7.0

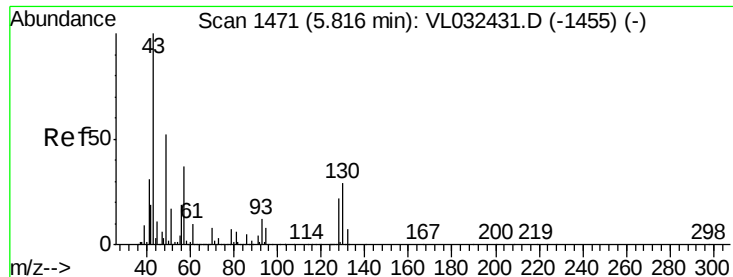


#24
 1,1-Dichloroethane
 Concen: 13.991 ppbv
 RT: 5.14 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion: 63 Resp: 3351705

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.5
100	2.8	1.5	4.4



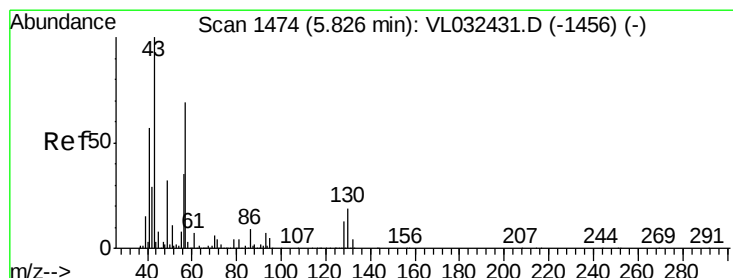
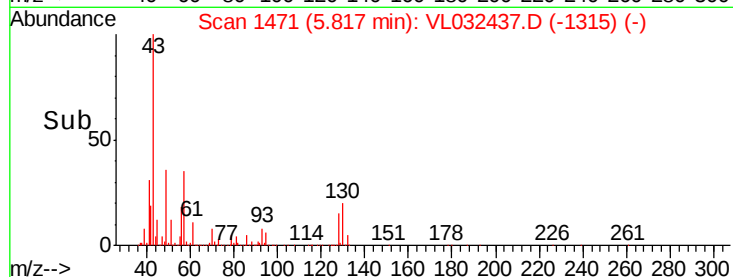
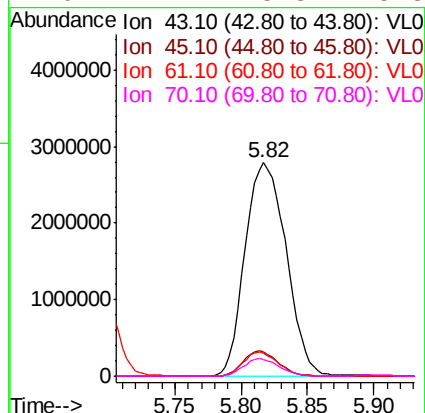
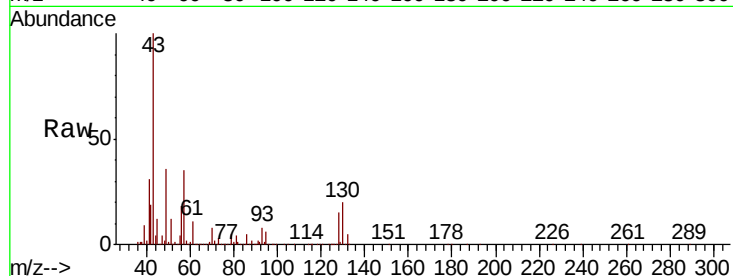


#25
Ethyl Acetate
Concen: 14.722 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 6025368

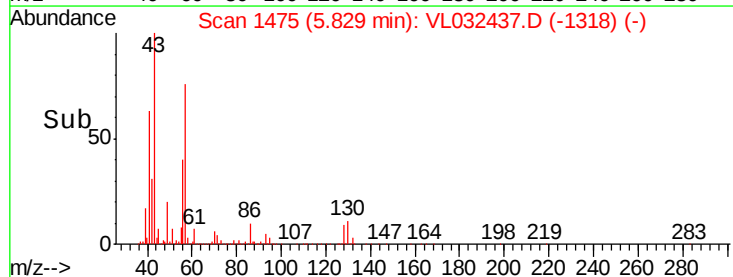
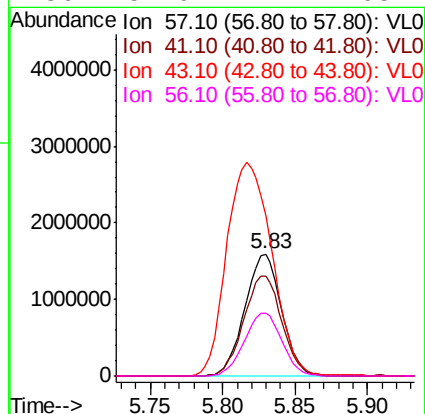
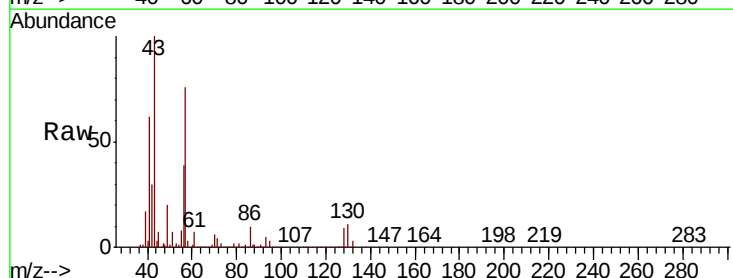
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.0	12.0
61	9.7	7.6	11.4
70	7.2	5.8	8.8

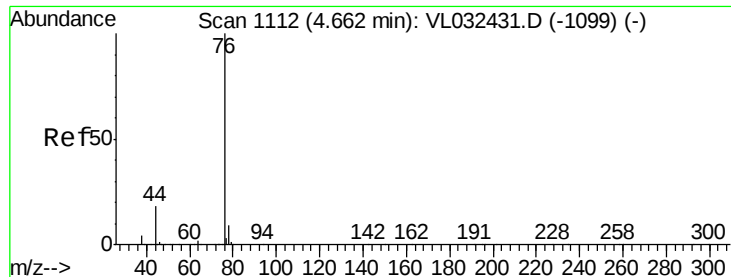


#26
Hexane
Concen: 15.281 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Tgt Ion: 57 Resp: 2802523

Ion	Ratio	Lower	Upper
57	100		
41	85.4	68.4	102.6
43	215.9	172.6	258.8
56	52.9	42.2	63.2





#27

Carbon Disulfide

Concen: 15.676 ppbv

RT: 4.66 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

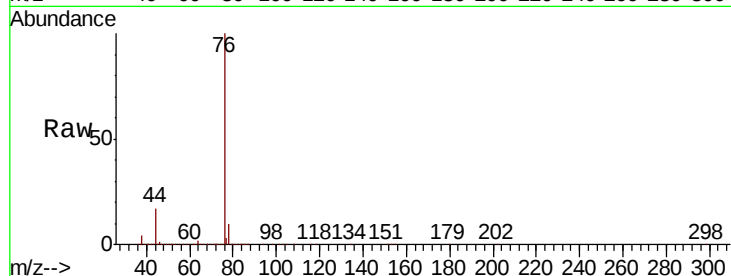
Tgt Ion: 76 Resp: 2759646

Ion Ratio Lower Upper

76 100

44 16.9 14.0 21.0

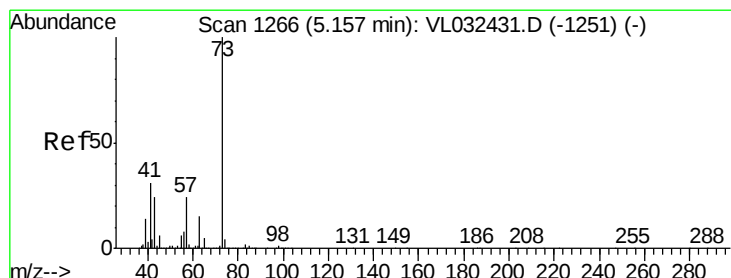
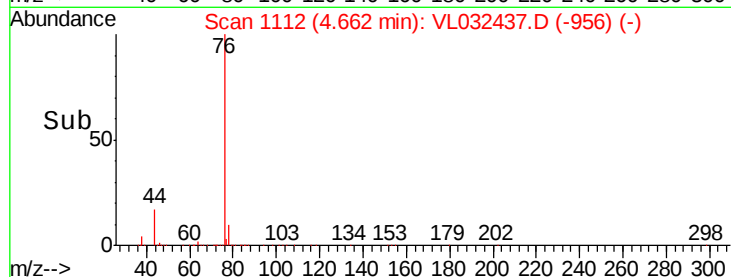
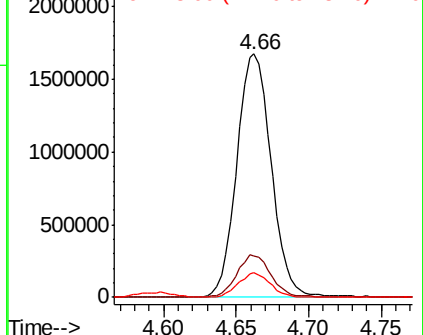
78 9.5 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 15.963 ppbv

RT: 5.16 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL032437.D

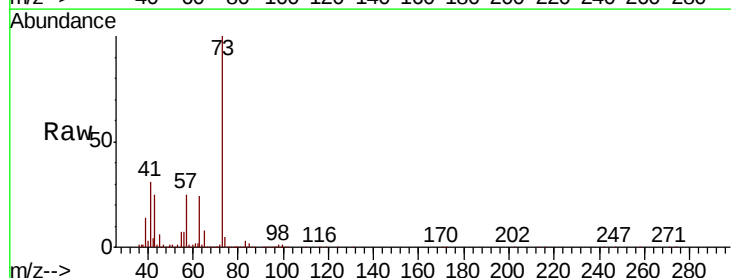
Acq: 31 Aug 2018 4:27

Tgt Ion: 73 Resp: 3611735

Ion Ratio Lower Upper

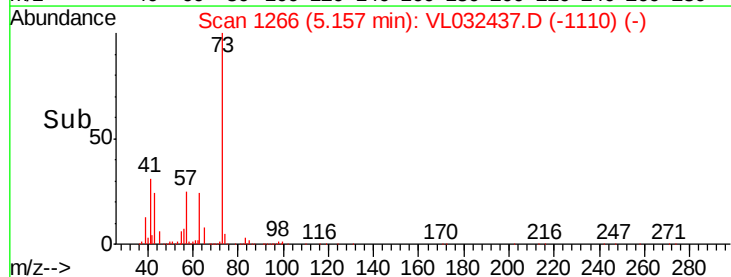
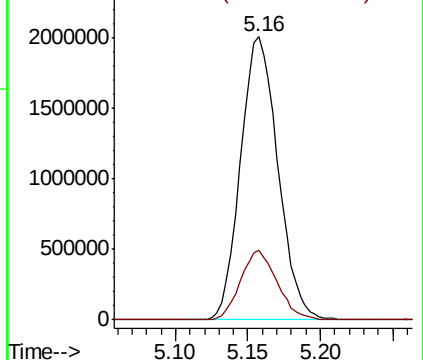
73 100

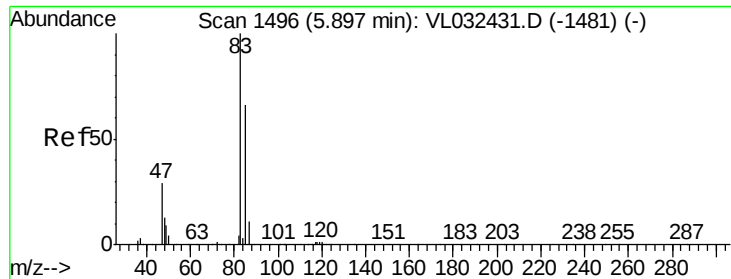
57 24.2 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 14.446 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

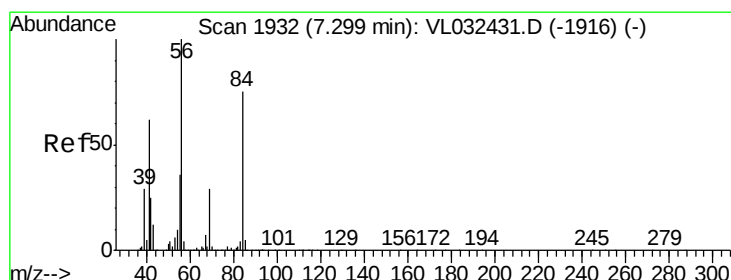
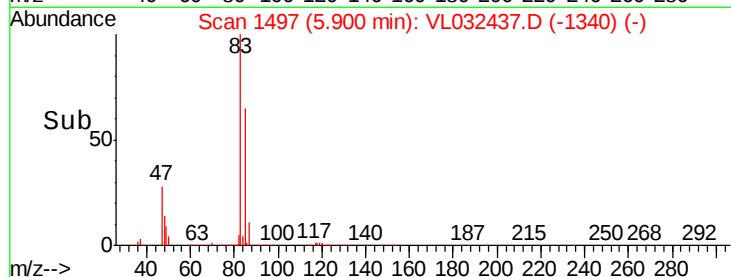
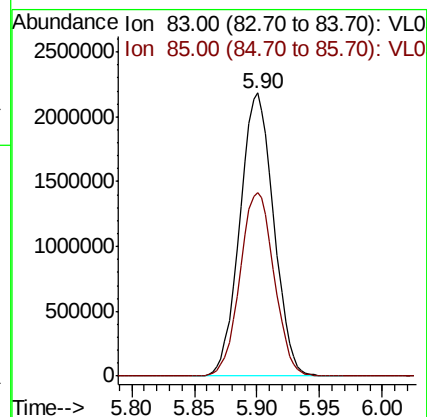
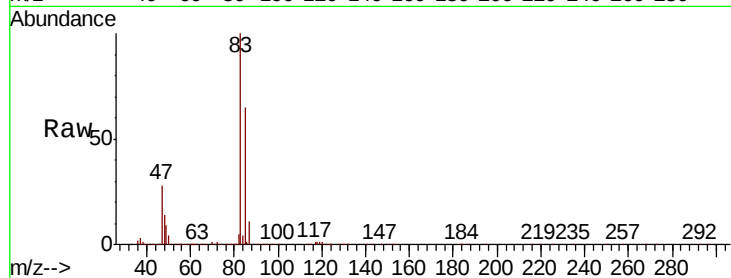
VSTDIC015

Tgt Ion: 83 Resp: 4092711

Ion Ratio Lower Upper

83 100

85 65.0 52.5 78.7



#30

Cyclohexane

Concen: 16.866 ppbv

RT: 7.30 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

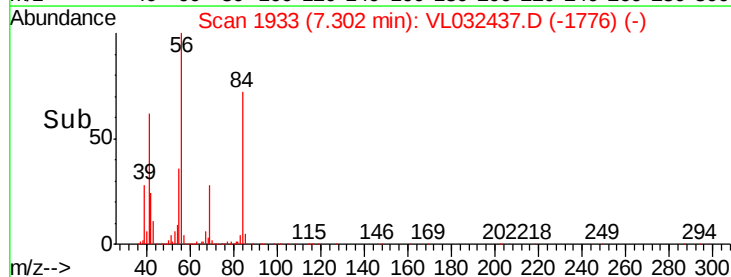
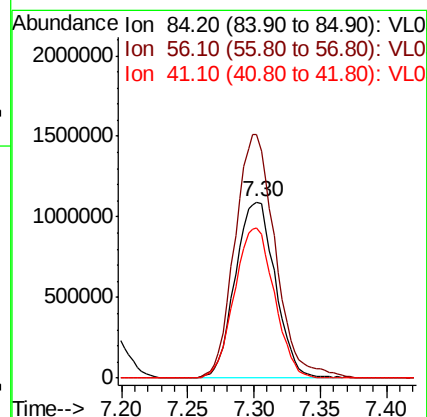
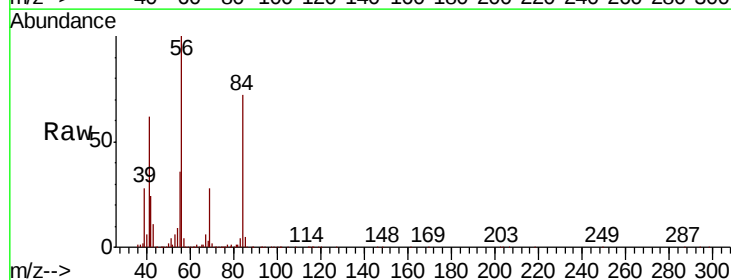
Tgt Ion: 84 Resp: 2284693

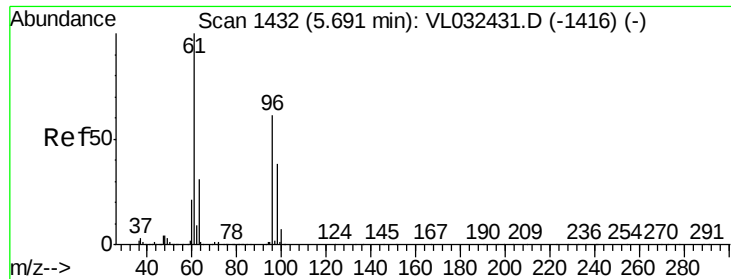
Ion Ratio Lower Upper

84 100

56 140.5 113.5 170.3

41 85.5 68.0 102.0

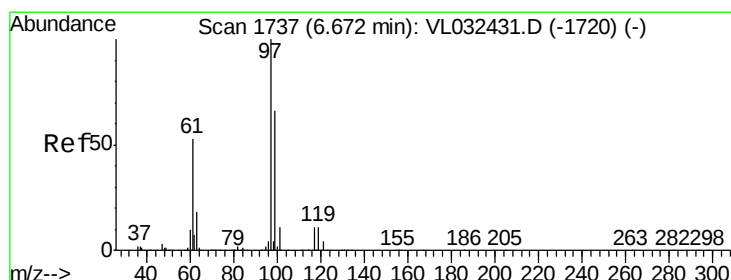
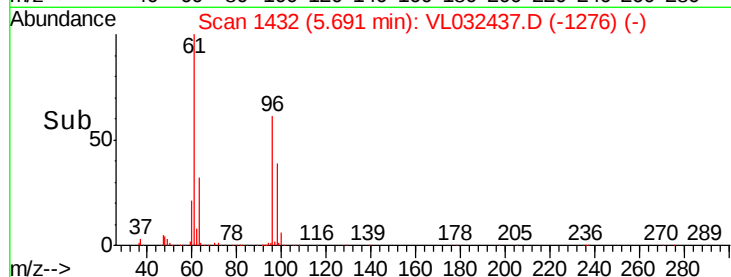
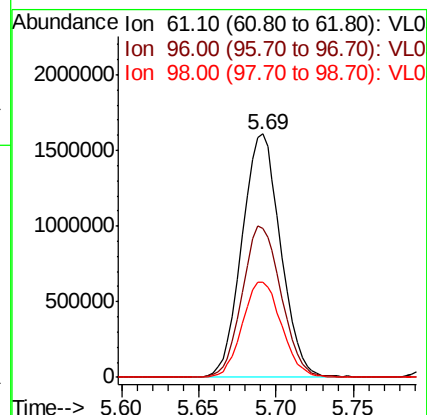
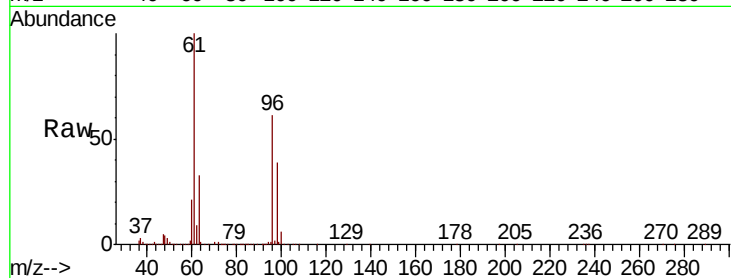




#31
 cis-1,2-Dichloroethene
 Concen: 16.648 ppbv
 RT: 5.69 min Scan# 1432
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

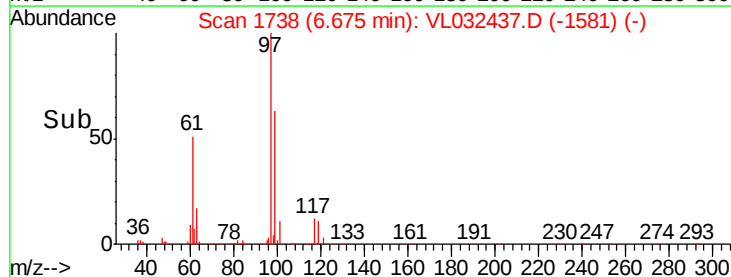
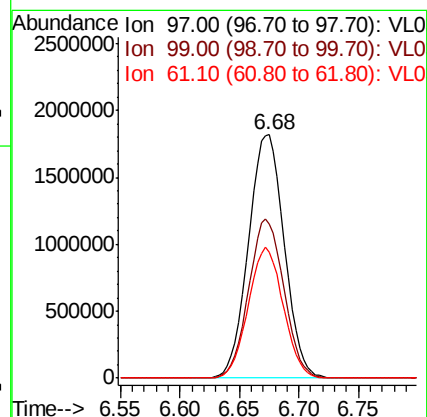
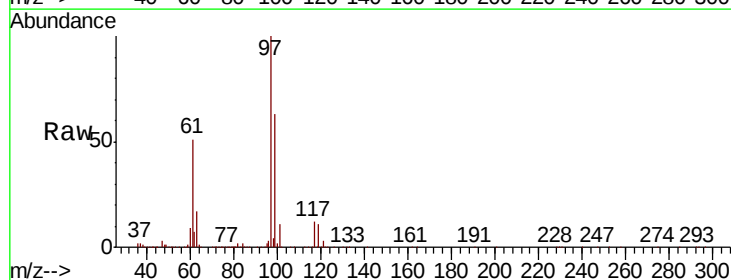
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

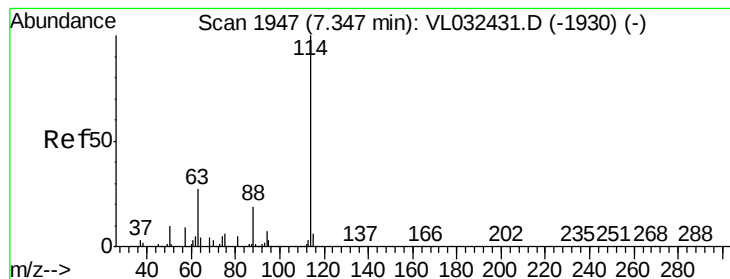
Tgt Ion: 61 Resp: 2787441
 Ion Ratio Lower Upper
 61 100
 96 61.1 49.2 73.8
 98 39.4 30.7 46.1



#32
 1,1,1-Trichloroethane
 Concen: 15.461 ppbv
 RT: 6.68 min Scan# 1738
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion: 97 Resp: 3781803
 Ion Ratio Lower Upper
 97 100
 99 64.6 52.1 78.1
 61 52.8 42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.35 min Scan# 1947

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

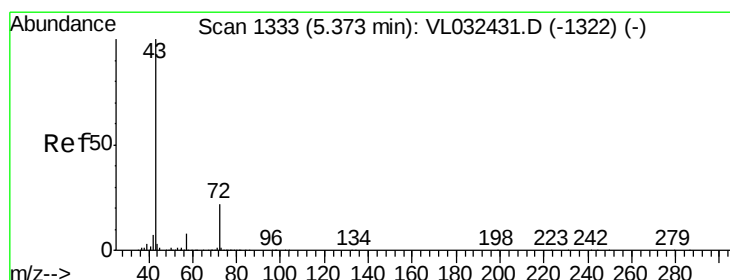
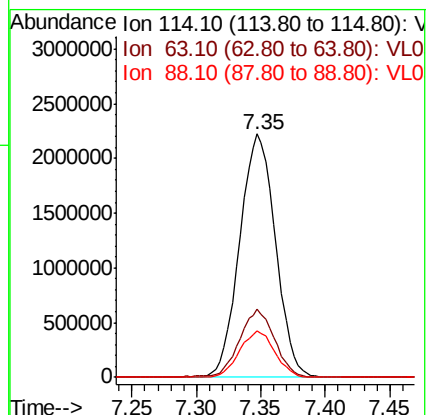
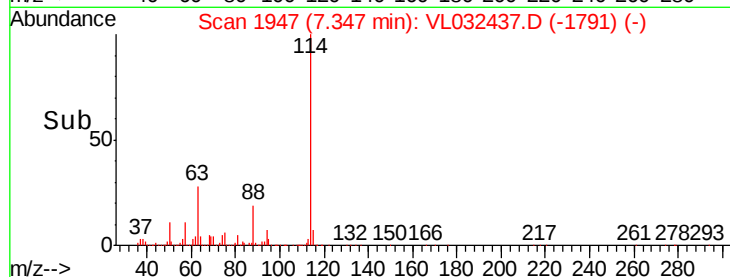
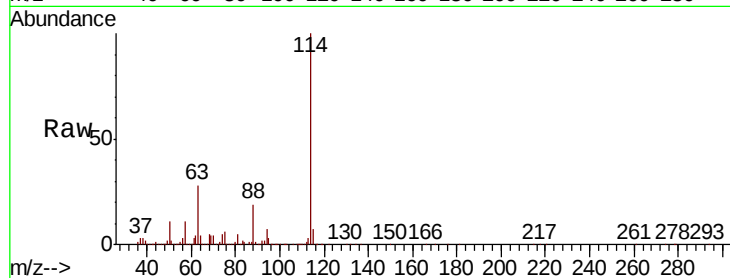
Tgt Ion:114 Resp: 4287889

Ion Ratio Lower Upper

114 100

63 27.7 22.1 33.1

88 18.7 15.0 22.6



#34

2-Butanone

Concen: 14.343 ppbv

RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VL032437.D

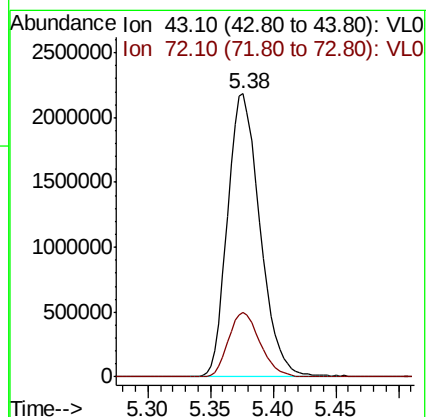
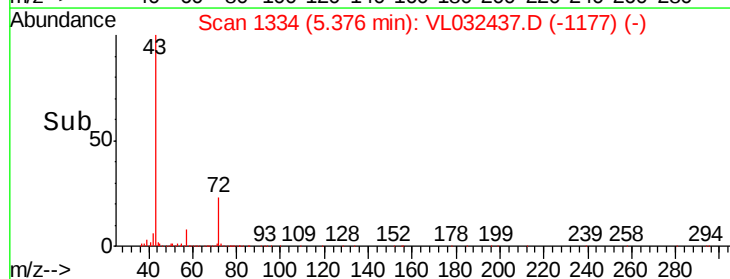
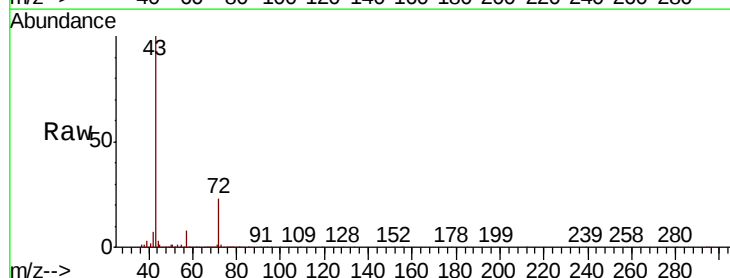
Acq: 31 Aug 2018 4:27

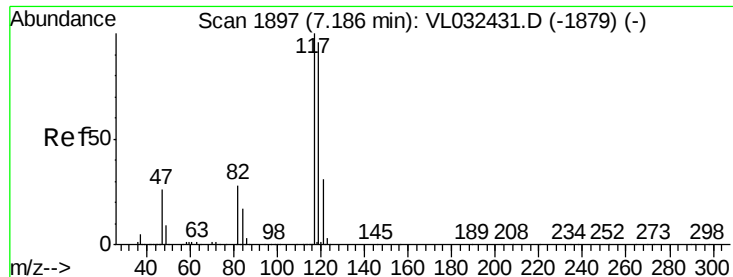
Tgt Ion: 43 Resp: 3914506

Ion Ratio Lower Upper

43 100

72 22.4 17.8 26.6

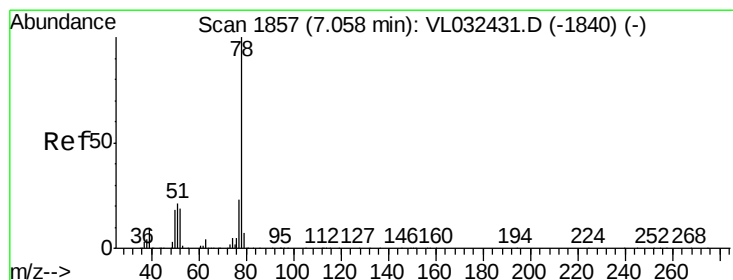
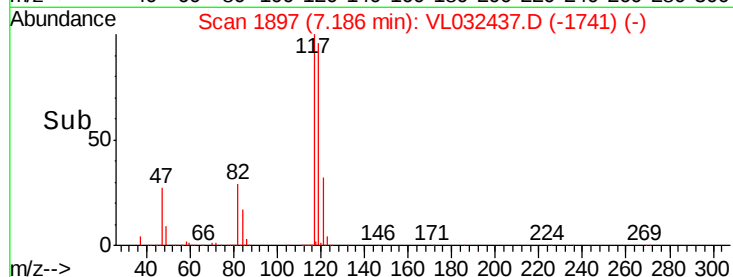
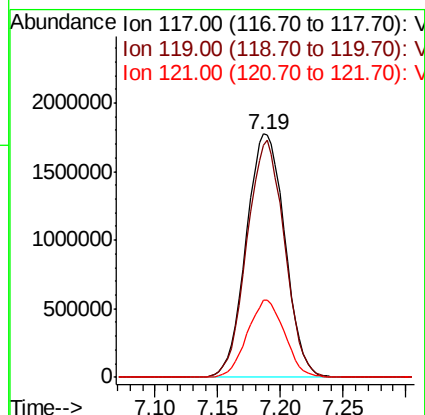
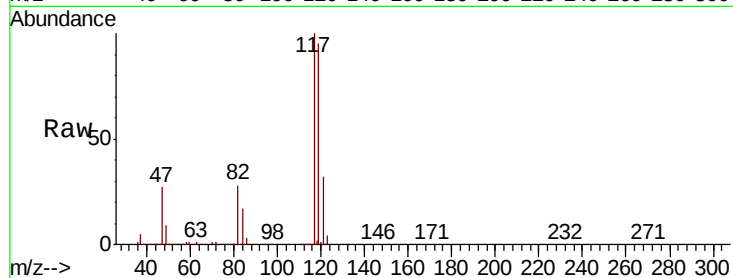




#35
Carbon Tetrachloride
Concen: 14.262 ppbv
RT: 7.19 min Scan# 1897
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

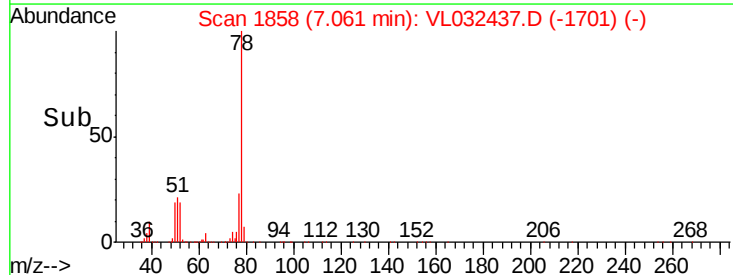
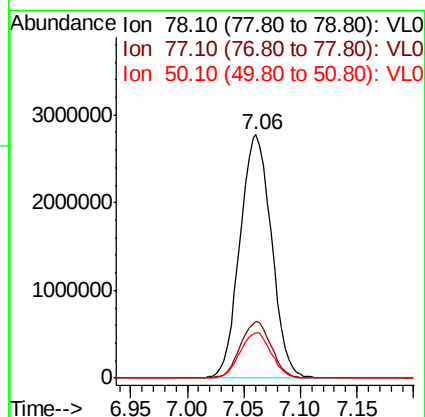
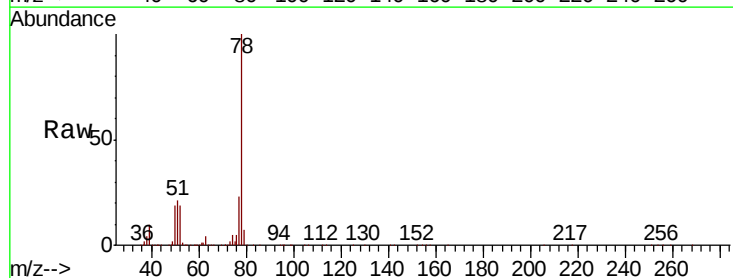
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

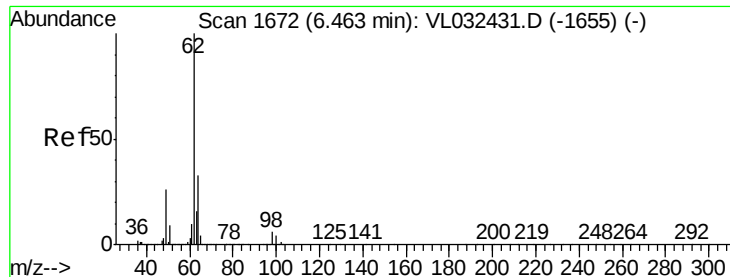
Tgt Ion:117 Resp: 3786885
Ion Ratio Lower Upper
117 100
119 95.2 76.6 115.0
121 31.9 24.6 36.8



#36
Benzene
Concen: 15.199 ppbv
RT: 7.06 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Tgt Ion: 78 Resp: 5395644
Ion Ratio Lower Upper
78 100
77 23.4 18.4 27.6
50 18.7 14.4 21.6

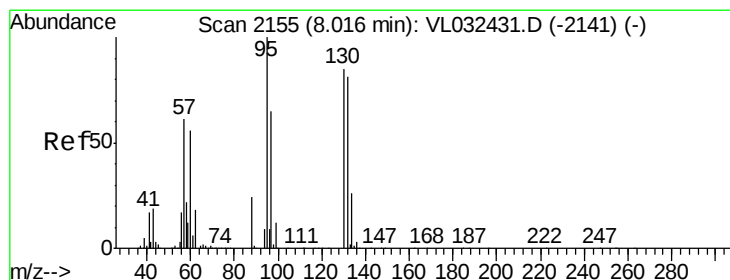
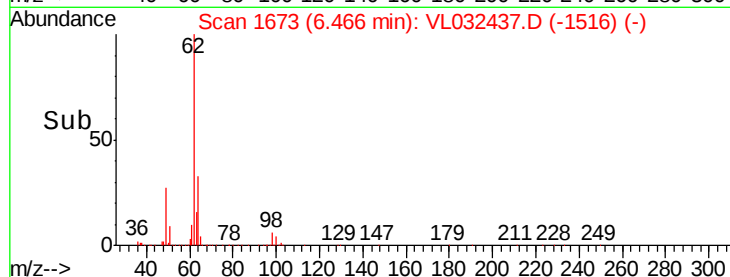
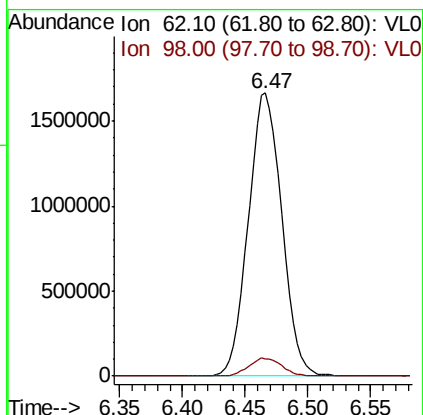
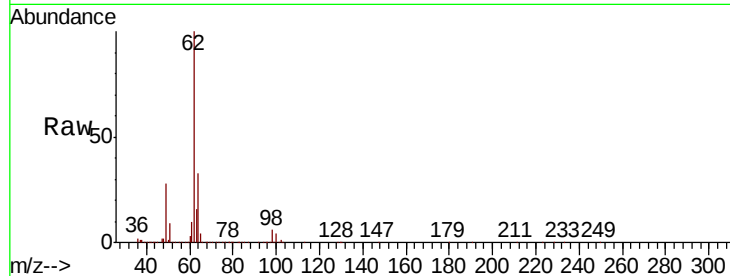




#37
 1,2-Dichloroethane
 Concen: 14.081 ppbv
 RT: 6.47 min Scan# 1673
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

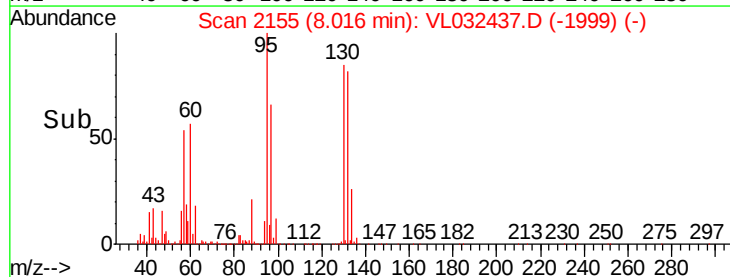
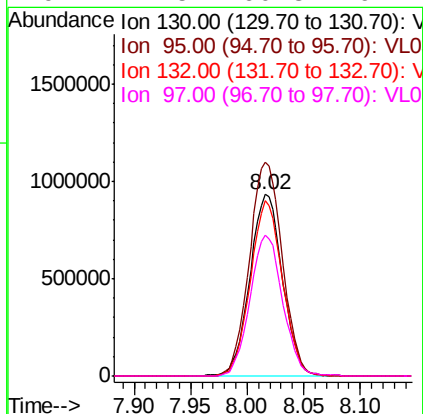
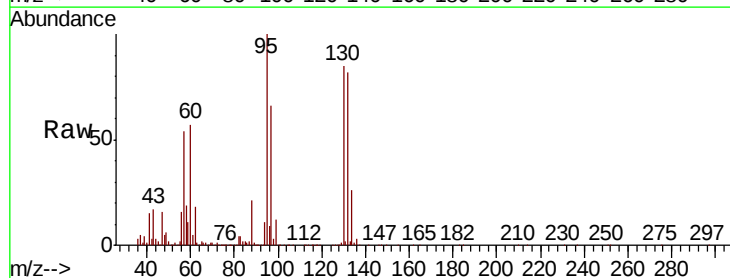
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

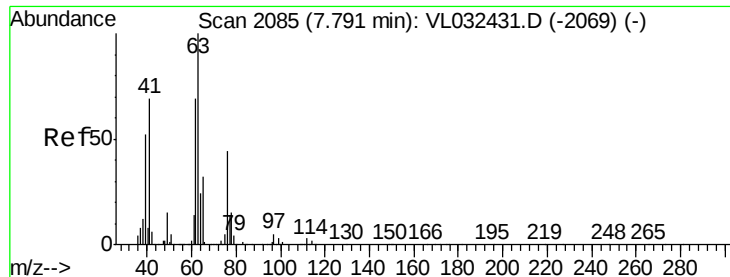
Tgt Ion: 62 Resp: 3096826
 Ion Ratio Lower Upper
 62 100
 98 6.4 5.0 7.6



#38
 Trichloroethene
 Concen: 15.708 ppbv
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion: 130 Resp: 1862655
 Ion Ratio Lower Upper
 130 100
 95 117.9 94.2 141.4
 132 97.1 76.2 114.4
 97 77.5 60.8 91.2





#39

1,2-Dichloropropane

Concen: 14.948 ppbv

RT: 7.79 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

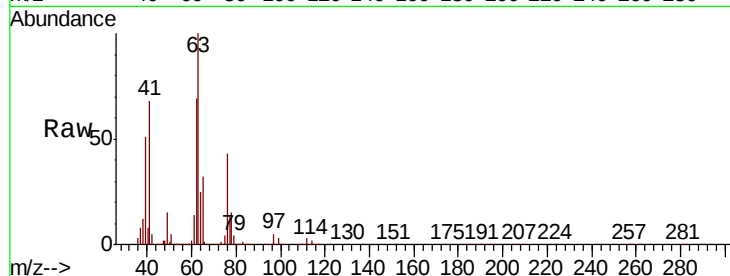
Tgt Ion: 63 Resp: 2228912

Ion Ratio Lower Upper

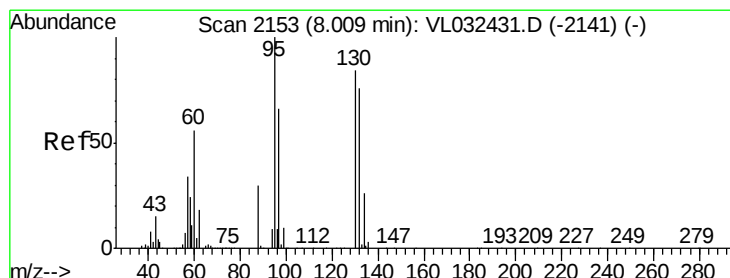
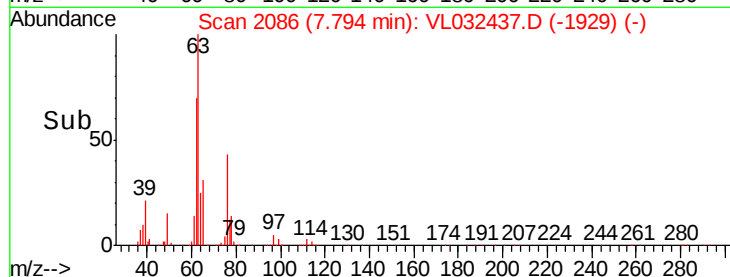
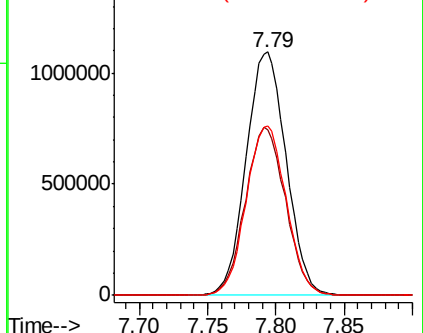
63 100

41 67.8 55.4 83.0

62 69.5 55.4 83.0



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: 13.690 ppbv

RT: 8.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Tgt Ion: 88 Resp: 608648

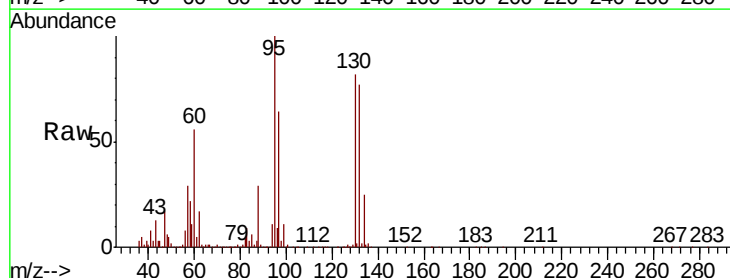
Ion Ratio Lower Upper

88 100

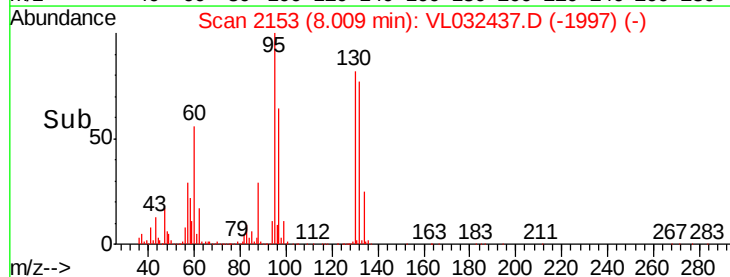
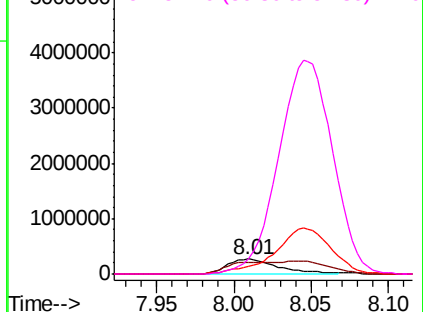
58 0.0 119.7 179.5#

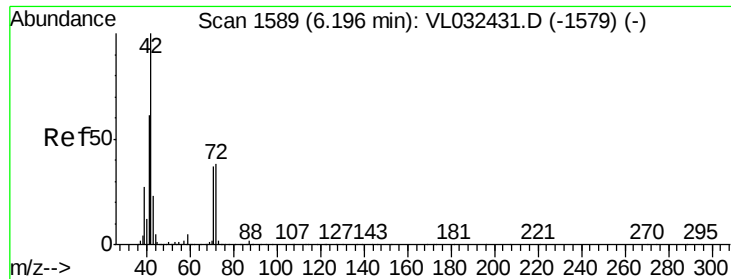
43 0.0 253.0 379.4#

57 0.0 1156.9 1735.3#



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

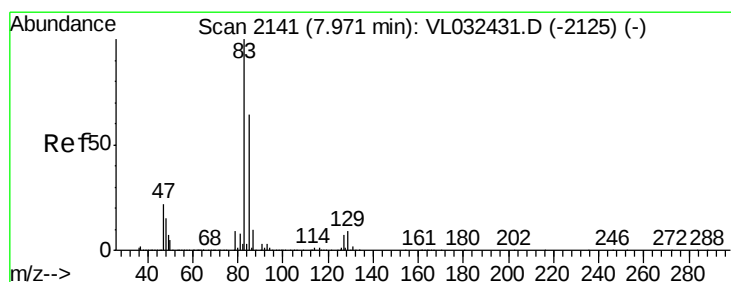
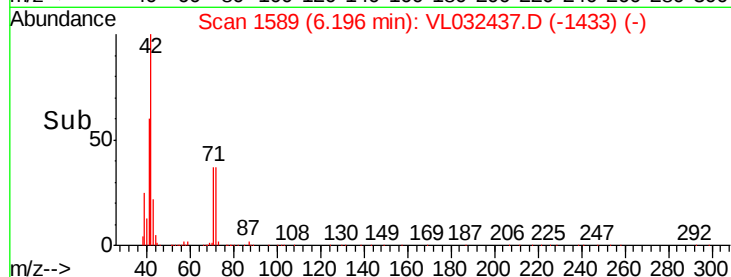
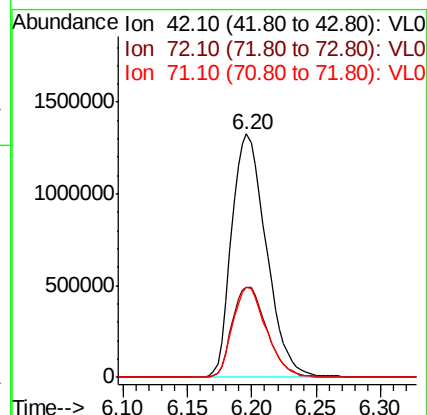
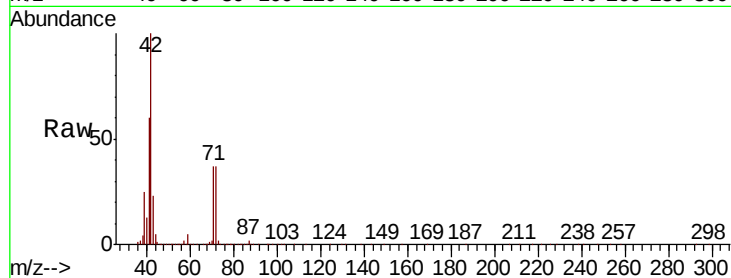




#41
Tetrahydrofuran
Concen: 16.957 ppbv
RT: 6.20 min Scan# 1589
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

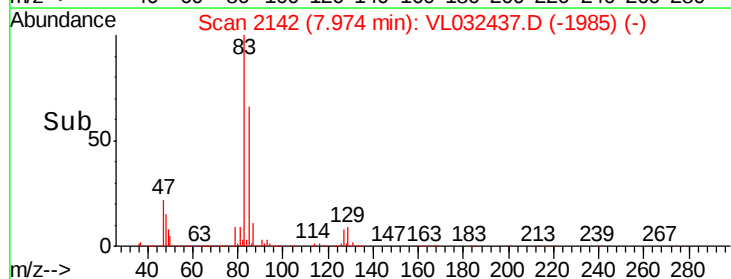
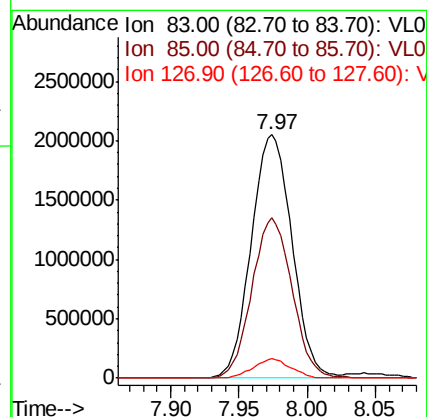
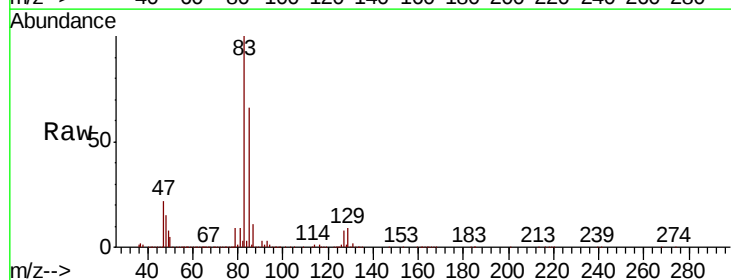
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

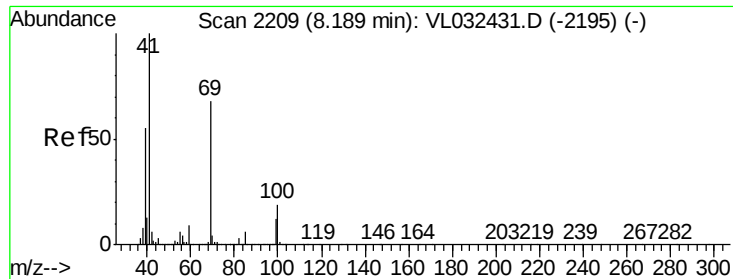
Tgt Ion: 42 Resp: 2477142
Ion Ratio Lower Upper
42 100
72 37.3 29.5 44.3
71 36.1 28.3 42.5



#42
Bromodichloromethane
Concen: 14.164 ppbv
RT: 7.97 min Scan# 2142
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Tgt Ion: 83 Resp: 4257536
Ion Ratio Lower Upper
83 100
85 65.6 51.1 76.7
127 7.9 5.8 8.8

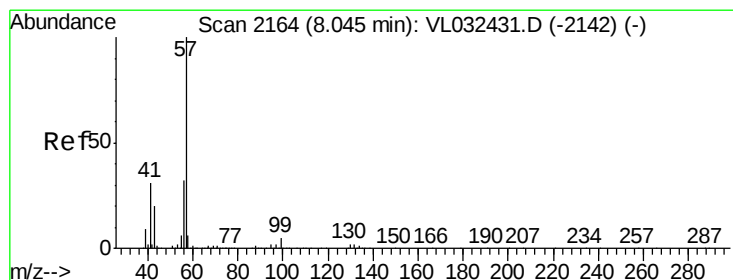
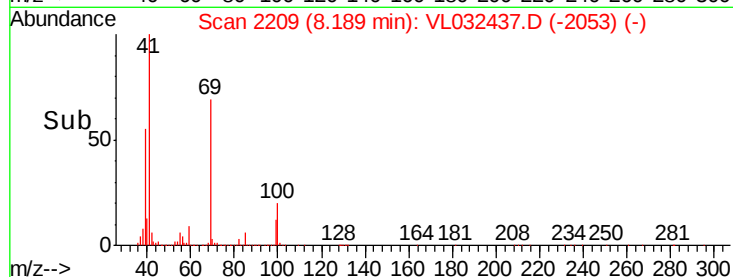
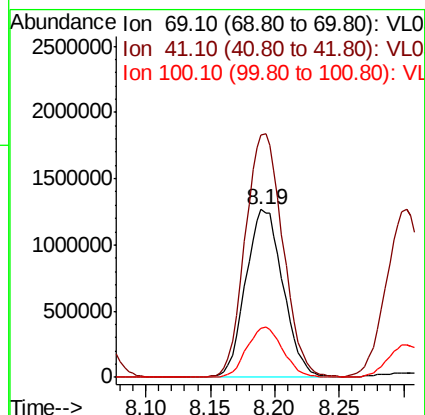
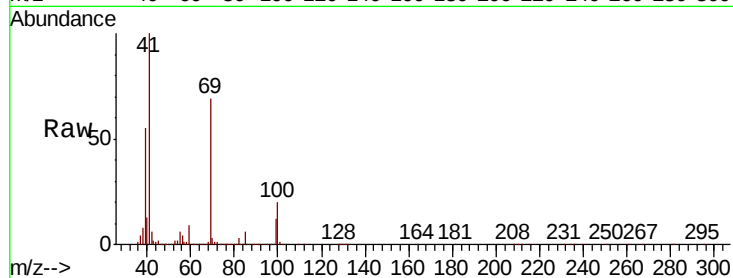




#43
Methyl Methacrylate
Concen: 17.433 ppbv
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

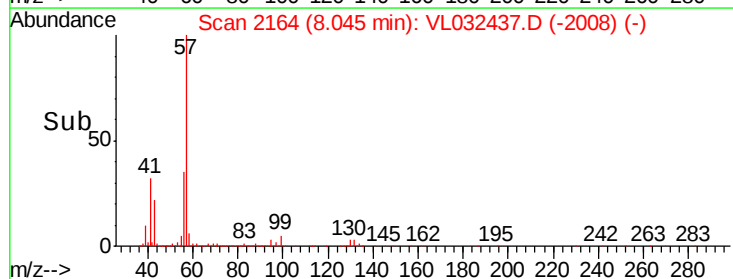
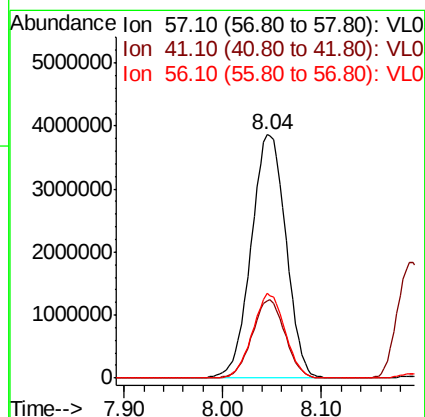
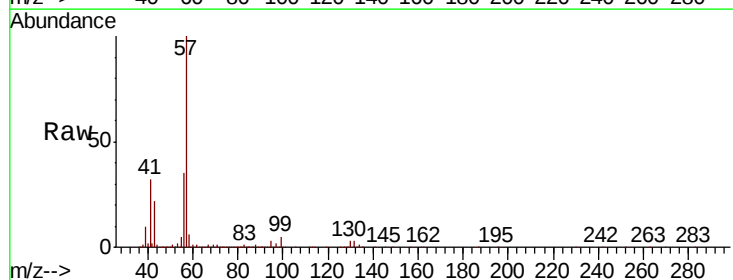
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

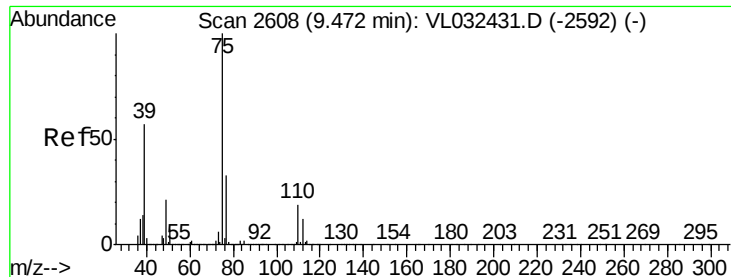
Tgt Ion: 69 Resp: 2549009
Ion Ratio Lower Upper
69 100
41 146.4 117.2 175.8
100 29.0 23.4 35.2



#44
2,2,4-Trimethylpentane
Concen: 14.181 ppbv
RT: 8.04 min Scan# 2164
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Tgt Ion: 57 Resp: 9395687
Ion Ratio Lower Upper
57 100
41 30.6 24.3 36.5
56 32.5 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 17.743 ppbv

RT: 9.47 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

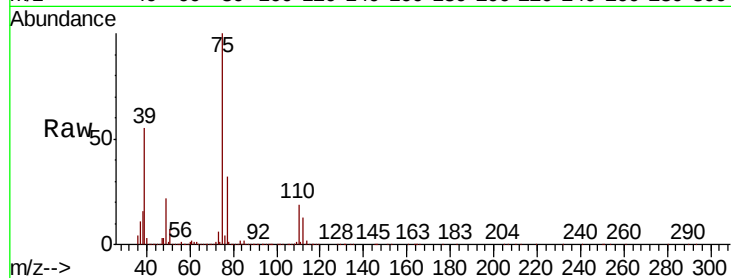
VSTDIC015

Tgt Ion: 75 Resp: 3082337

Ion Ratio Lower Upper

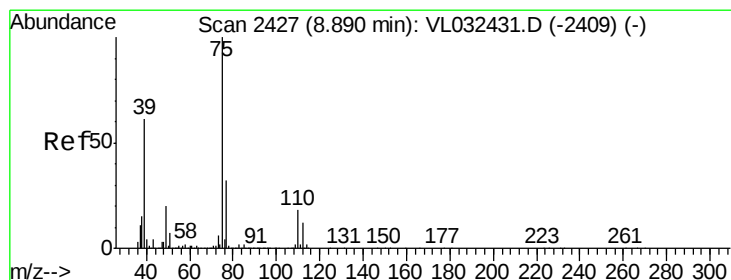
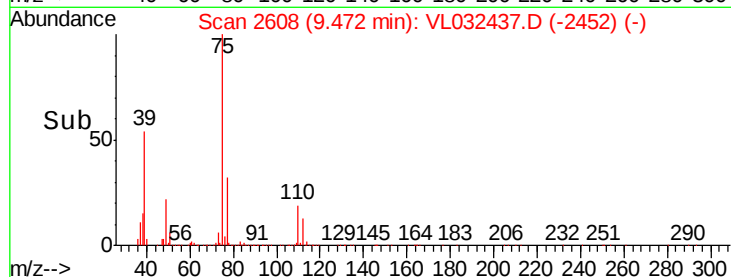
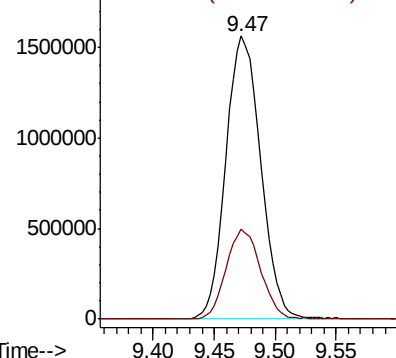
75 100

77 31.7 26.2 39.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 16.728 ppbv

RT: 8.89 min Scan# 2428

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

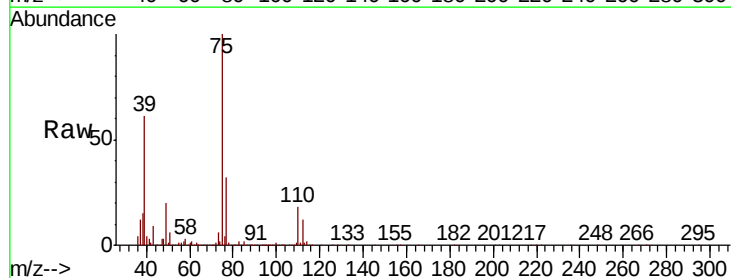
Tgt Ion: 75 Resp: 3556076

Ion Ratio Lower Upper

75 100

39 60.9 48.9 73.3

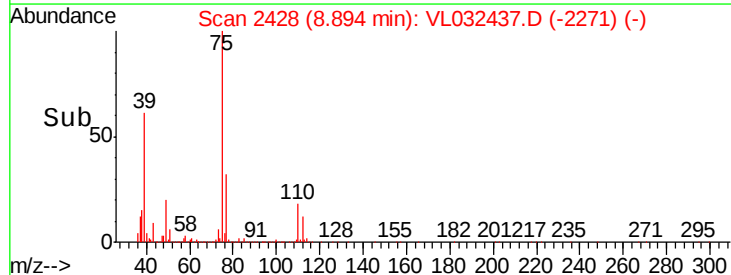
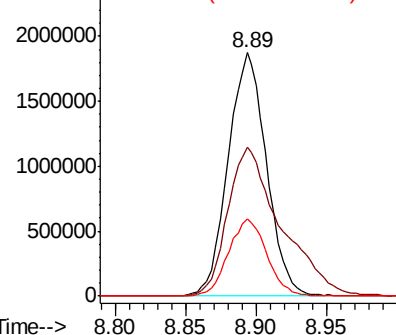
77 31.7 25.4 38.0

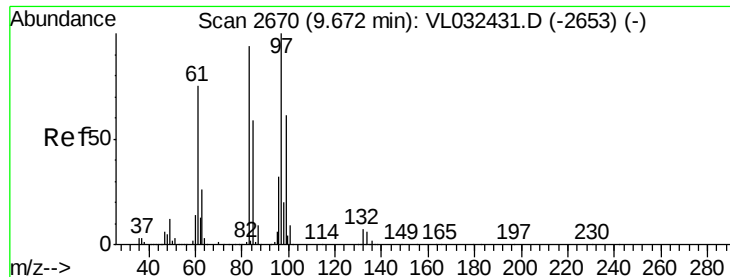


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 14.631 ppbv

RT: 9.67 min Scan# 2671

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 2336166

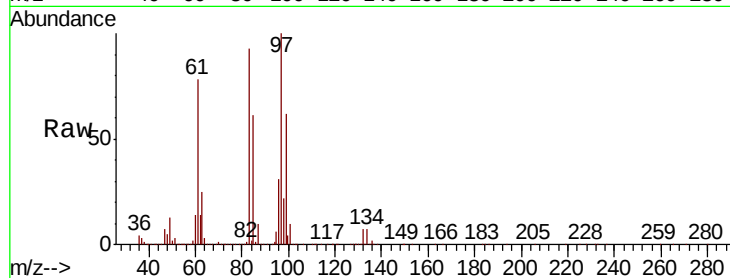
Ion Ratio Lower Upper

97 100

83 93.4 75.0 112.4

85 61.3 47.5 71.3

99 62.4 49.0 73.6

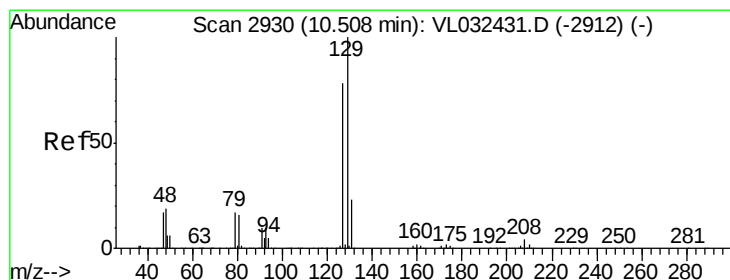
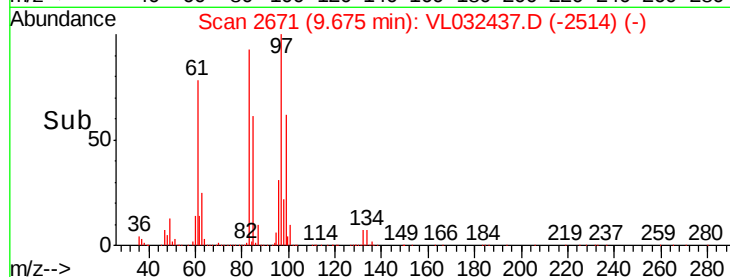
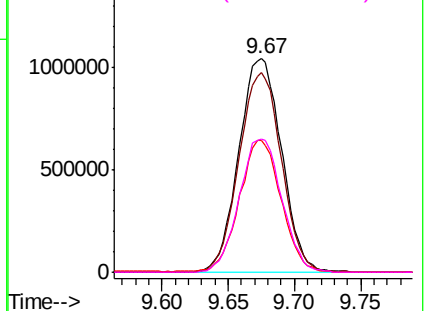


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 14.726 ppbv

RT: 10.51 min Scan# 2931

Delta R.T. 0.00 min

Lab File: VL032437.D

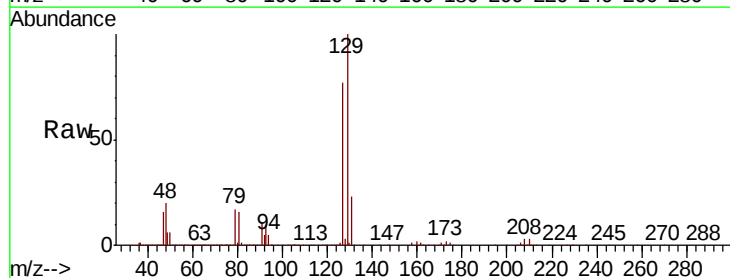
Acq: 31 Aug 2018 4:27

Tgt Ion: 129 Resp: 3313062

Ion Ratio Lower Upper

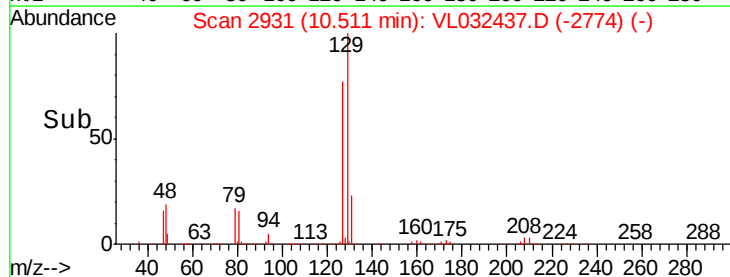
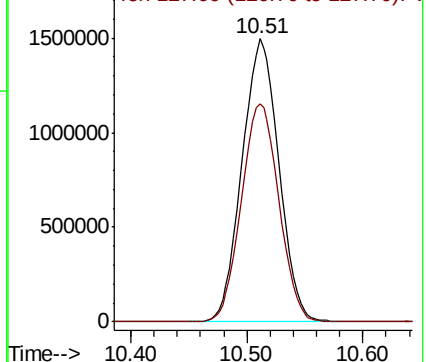
129 100

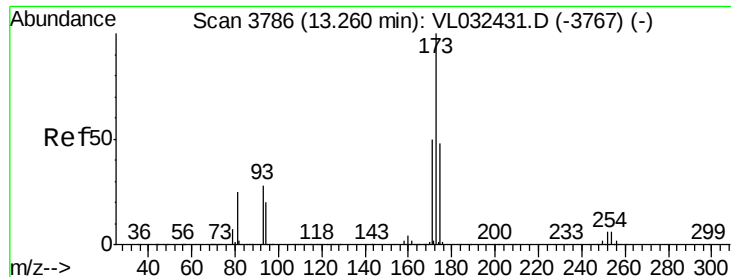
127 78.7 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 14.516 ppbv

RT: 13.26 min Scan# 3787

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

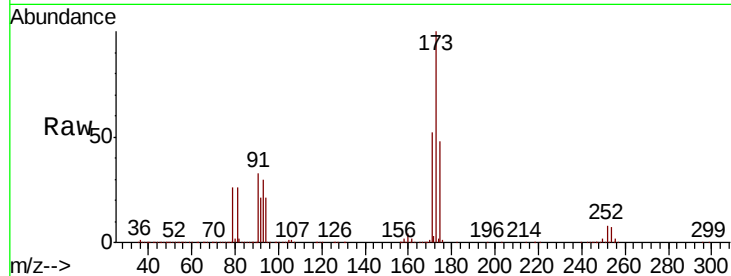
Tgt Ion:173 Resp: 2868339

Ion Ratio Lower Upper

173 100

175 49.2 38.9 58.3

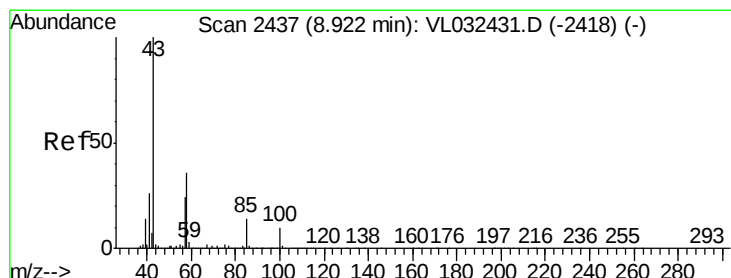
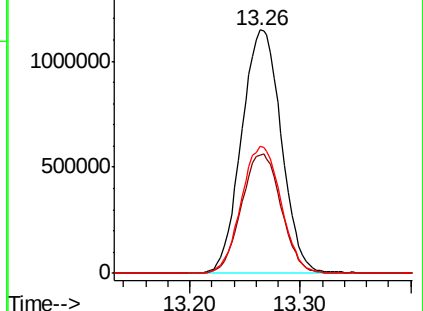
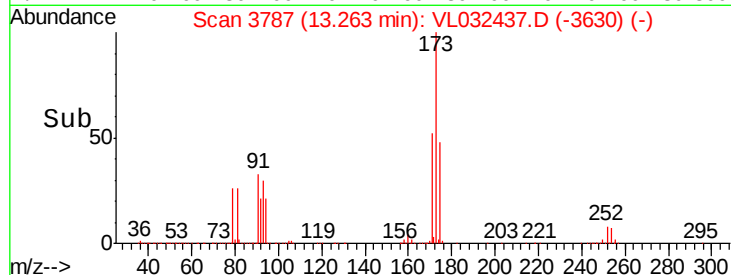
171 52.6 41.6 62.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 15.041 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL032437.D

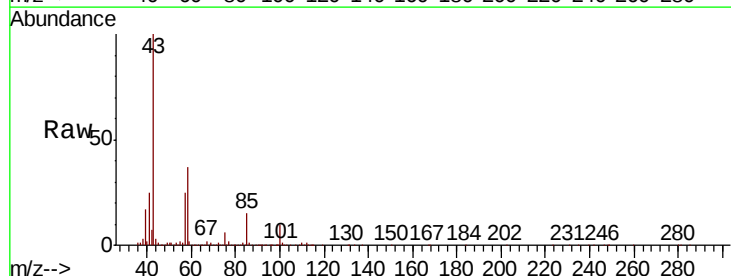
Acq: 31 Aug 2018 4:27

Tgt Ion: 43 Resp: 6366187

Ion Ratio Lower Upper

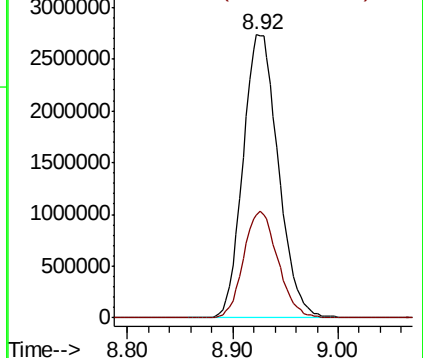
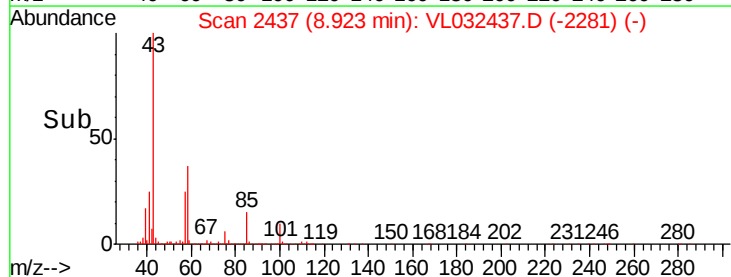
43 100

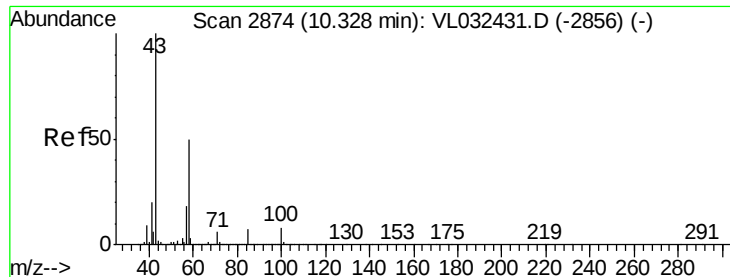
58 36.7 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.455 ppbv

RT: 10.33 min Scan# 2874

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

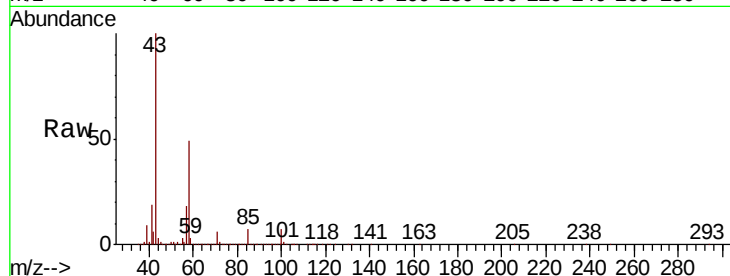
Tgt Ion: 43 Resp: 4599655

Ion Ratio Lower Upper

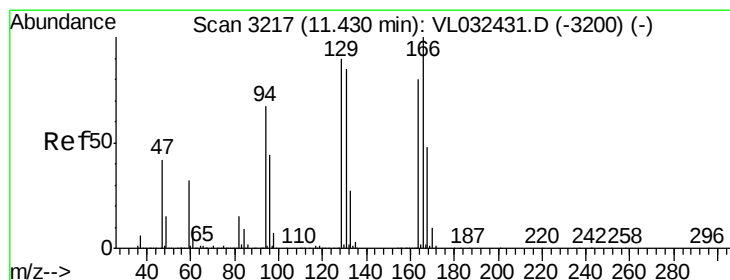
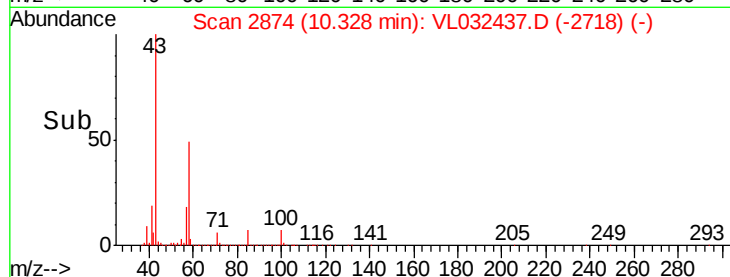
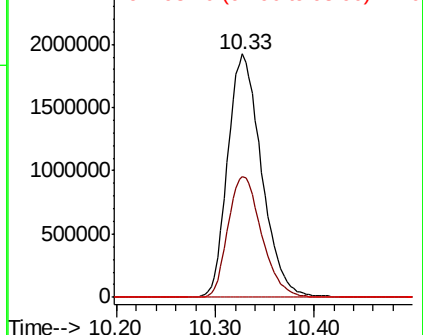
43 100

58 49.6 39.2 58.8

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: 15.738 ppbv

RT: 11.43 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Tgt Ion: 164 Resp: 1602800

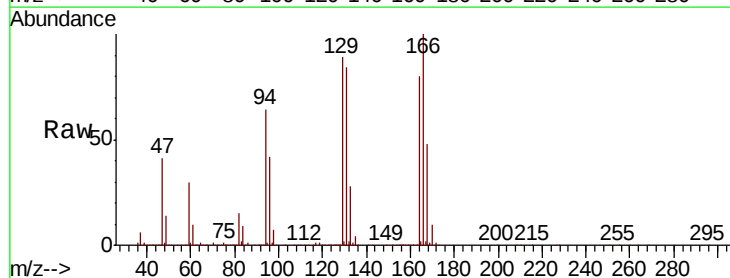
Ion Ratio Lower Upper

164 100

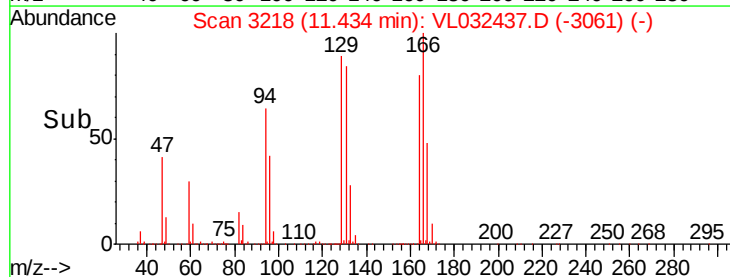
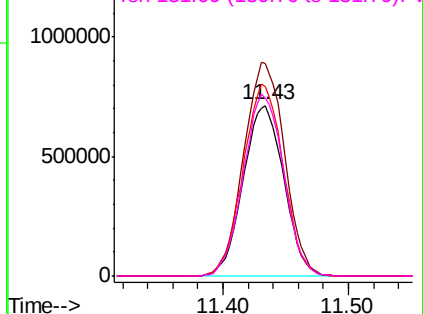
166 124.8 100.6 150.8

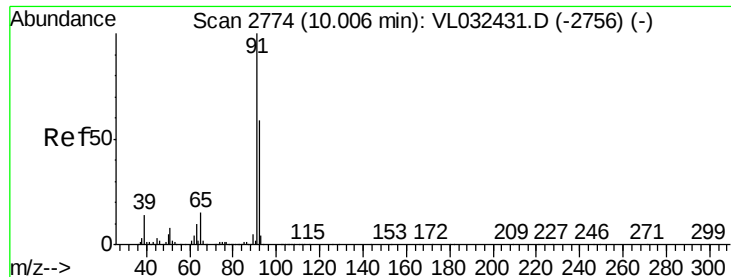
129 110.8 89.9 134.9

131 104.7 85.9 128.9



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: 17.481 ppbv

RT: 10.01 min Scan# 2774

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

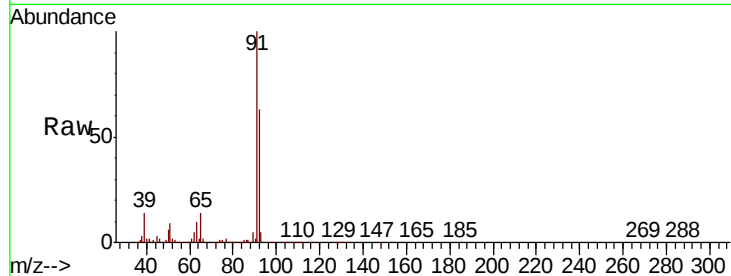
VSTDIC015

Tgt Ion: 91 Resp: 6500485

Ion Ratio Lower Upper

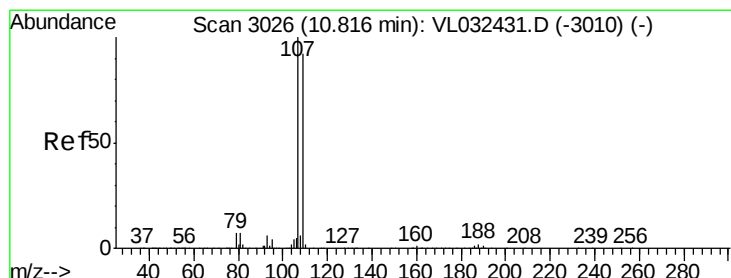
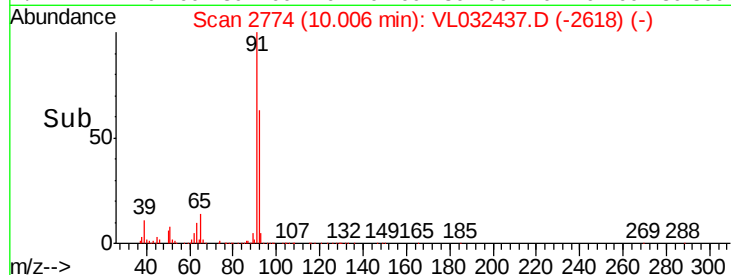
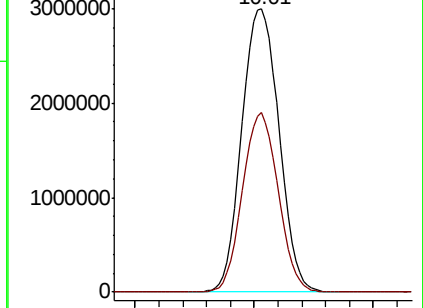
91 100

92 60.9 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 13.543 ppbv

RT: 10.82 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VL032437.D

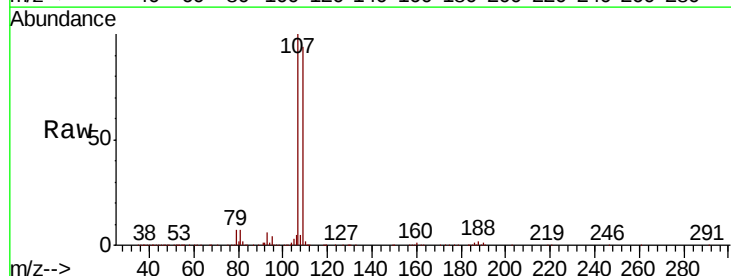
Acq: 31 Aug 2018 4:27

Tgt Ion: 107 Resp: 3122986

Ion Ratio Lower Upper

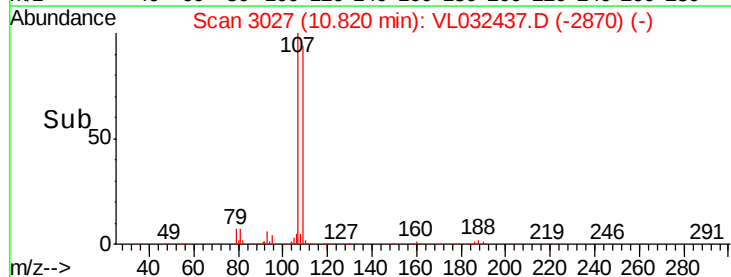
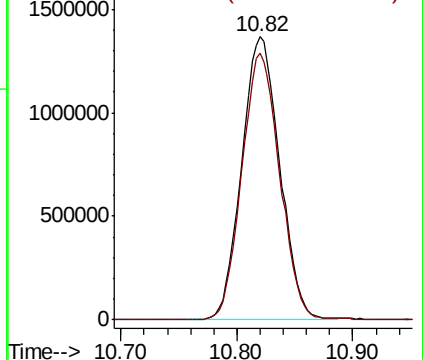
107 100

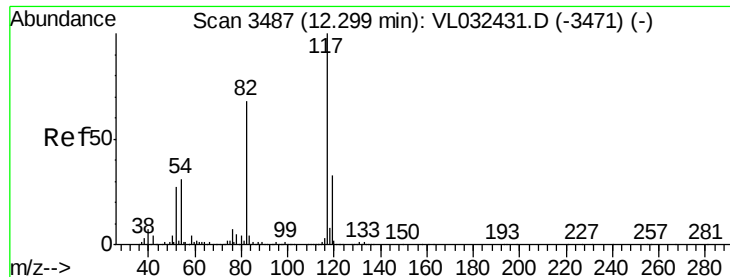
109 94.1 73.9 110.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

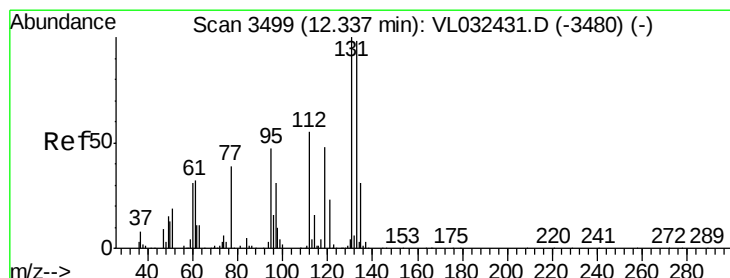
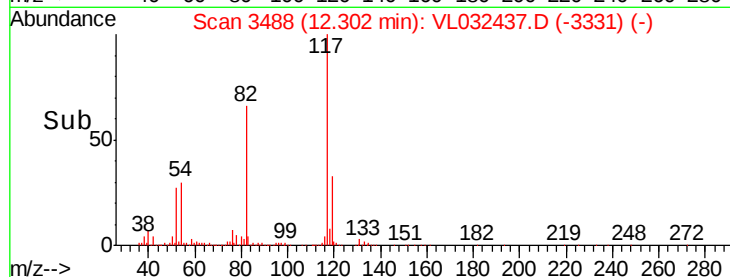
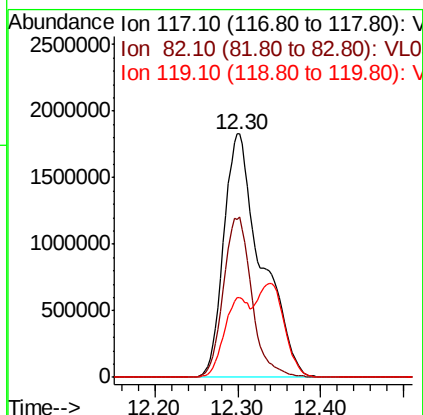
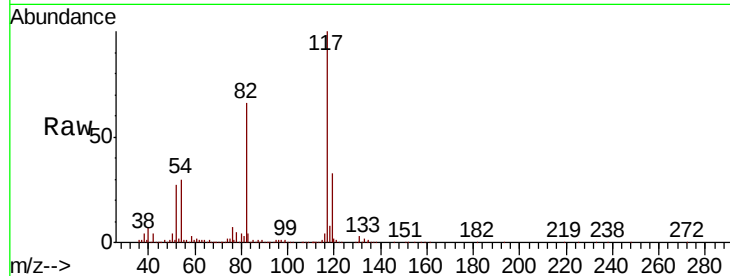




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3488
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

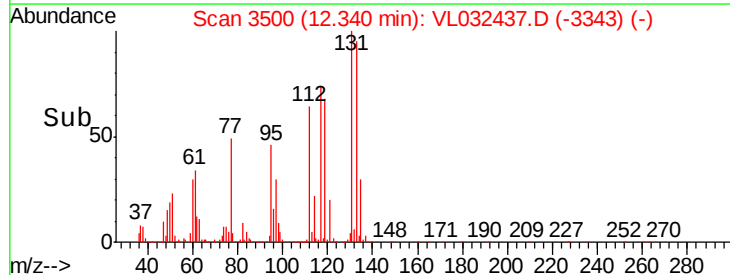
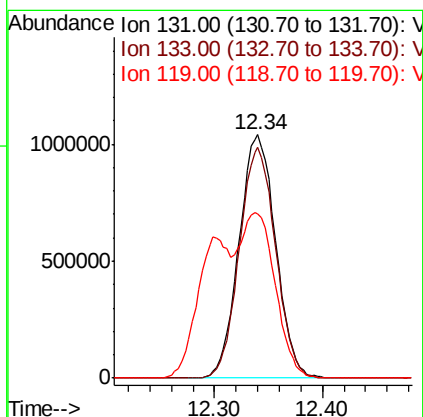
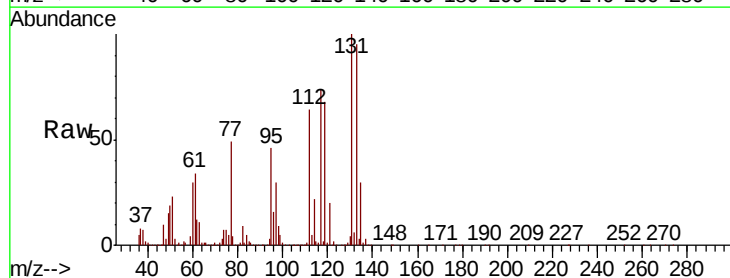
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

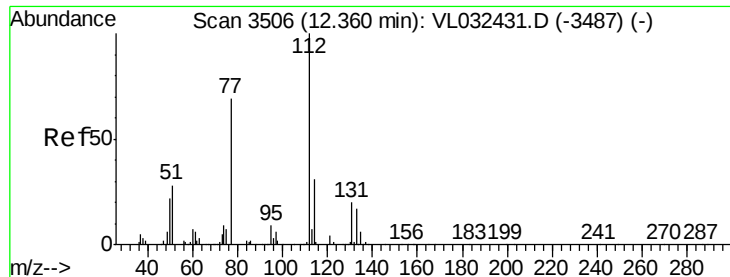
Tgt Ion:117 Resp: 5792587
Ion Ratio Lower Upper
117 100
82 49.7 51.5 77.3#
119 50.9 44.6 66.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.847 ppbv
RT: 12.34 min Scan# 3500
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Tgt Ion:131 Resp: 2454608
Ion Ratio Lower Upper
131 100
133 94.5 77.0 115.4
119 120.0 48.9 73.3#





#57

Chlorobenzene

Concen: 9.896 ppbv

RT: 12.36 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

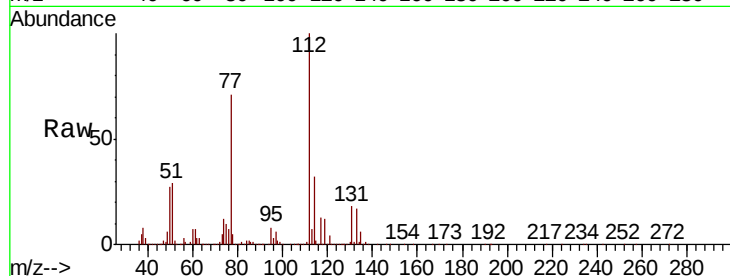
Tgt Ion: 112 Resp: 4391925

Ion Ratio Lower Upper

112 100

77 70.4 56.1 84.1

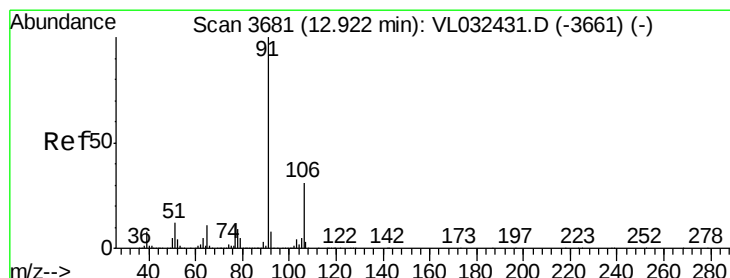
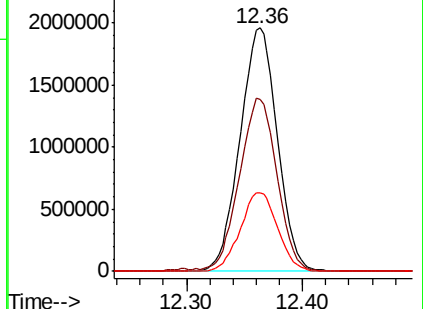
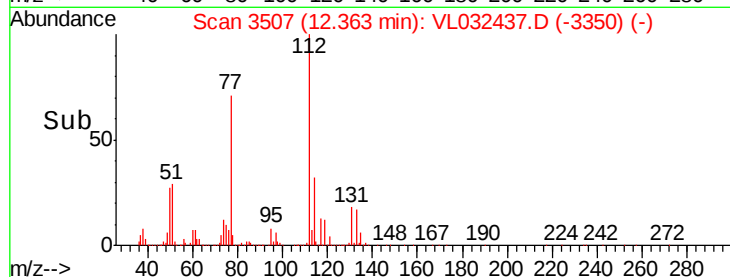
114 32.0 27.8 34.0



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: 12.186 ppbv

RT: 12.93 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VL032437.D

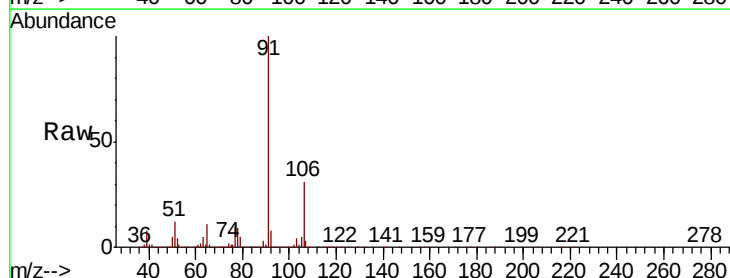
Acq: 31 Aug 2018 4:27

Tgt Ion: 91 Resp: 8049560

Ion Ratio Lower Upper

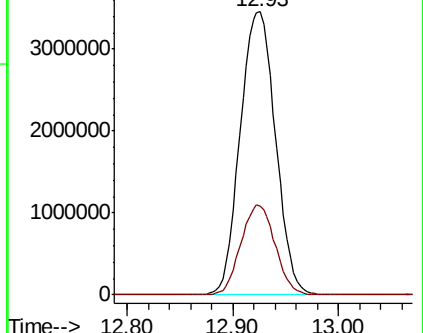
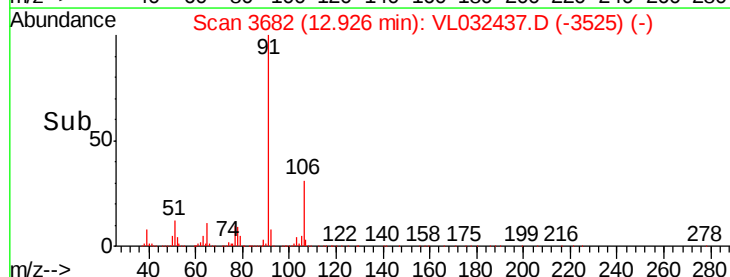
91 100

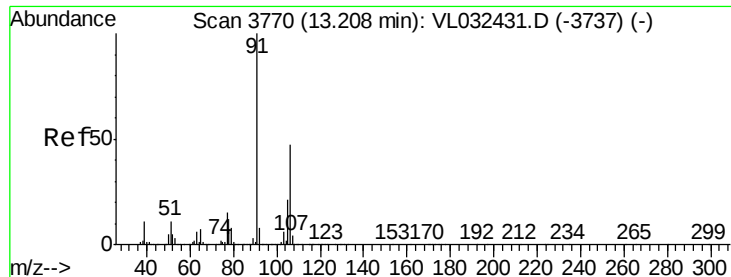
106 31.3 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 10.147 ppbv

RT: 13.21 min Scan# 3770

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

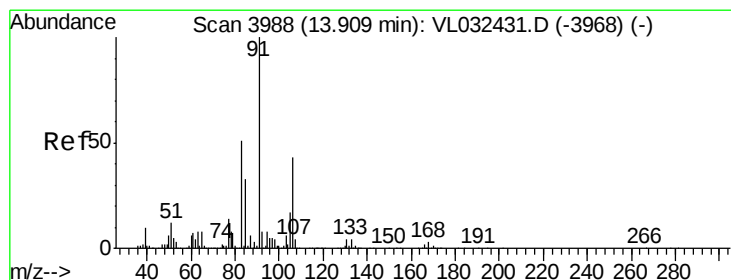
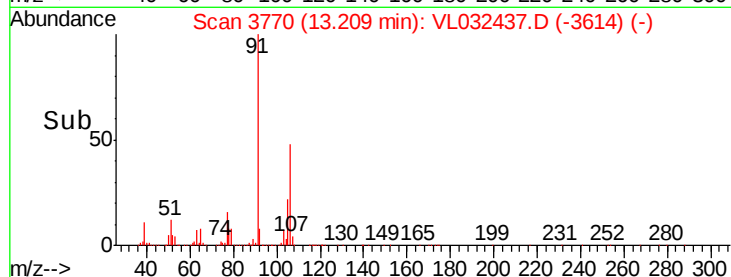
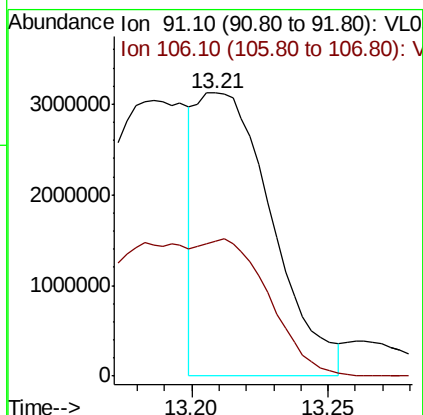
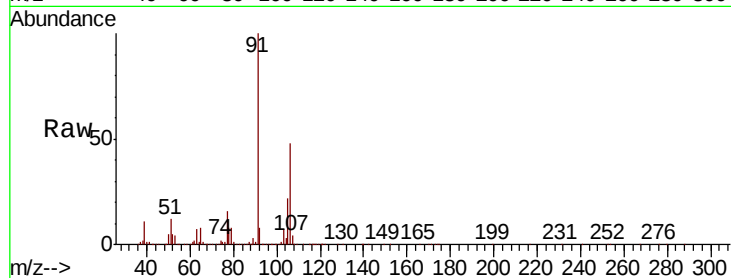
VSTDIC015

Tgt Ion: 91 Resp: 5971468

Ion Ratio Lower Upper

91 100

106 101.3 35.0 52.6#



#60

o-Xylene

Concen: 11.149 ppbv

RT: 13.91 min Scan# 3988

Delta R.T. 0.00 min

Lab File: VL032437.D

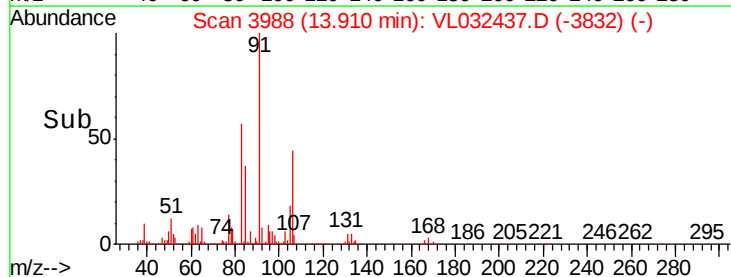
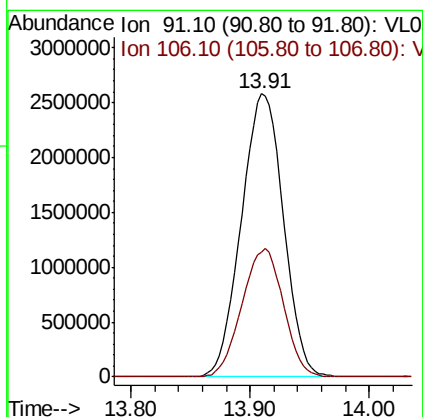
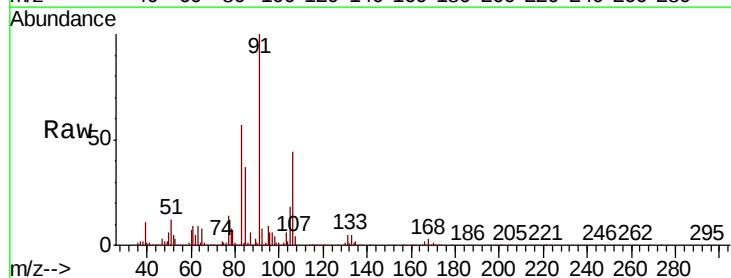
Acq: 31 Aug 2018 4:27

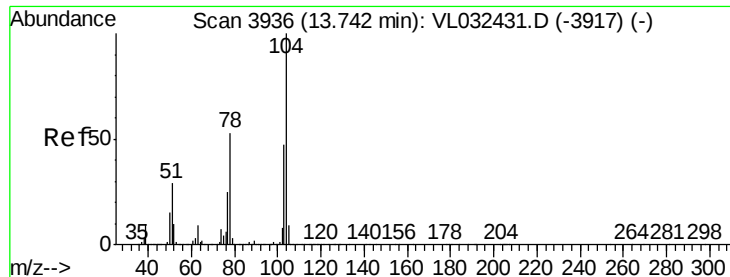
Tgt Ion: 91 Resp: 6302787

Ion Ratio Lower Upper

91 100

106 44.8 21.9 65.7





#61

Styrene

Concen: 12.929 ppbv

RT: 13.75 min Scan# 3937

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

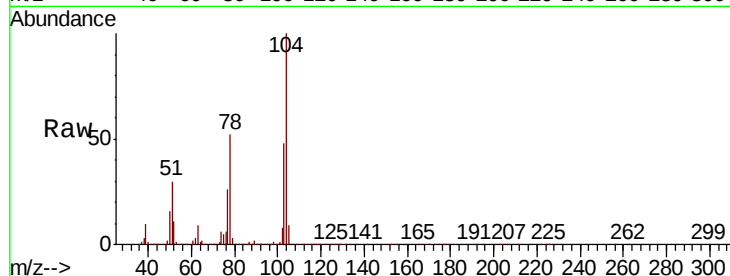
Tgt Ion:104 Resp: 4911838

Ion Ratio Lower Upper

104 100

78 52.7 41.8 62.8

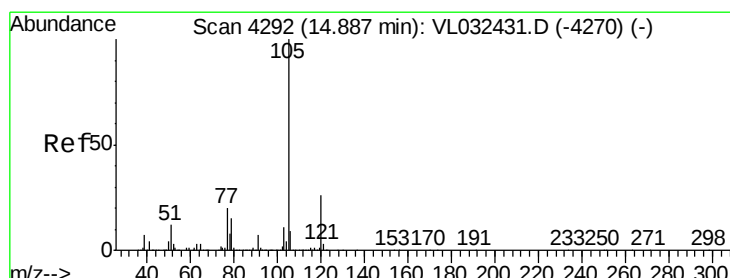
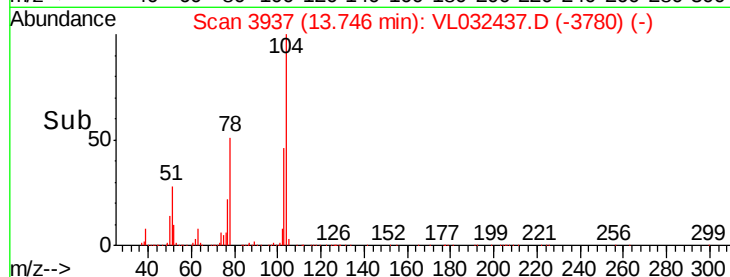
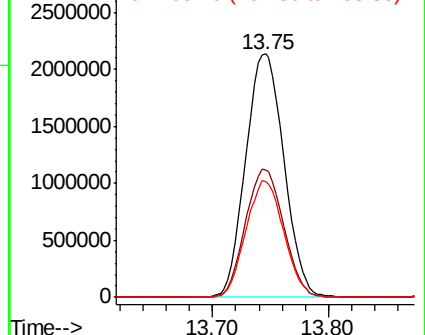
103 47.6 38.0 57.0



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: 11.170 ppbv

RT: 14.89 min Scan# 4292

Delta R.T. 0.00 min

Lab File: VL032437.D

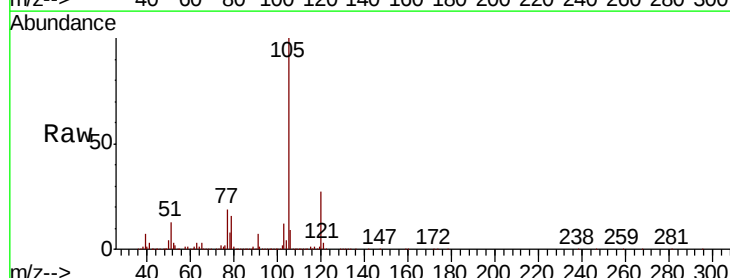
Acq: 31 Aug 2018 4:27

Tgt Ion:105 Resp: 8940084

Ion Ratio Lower Upper

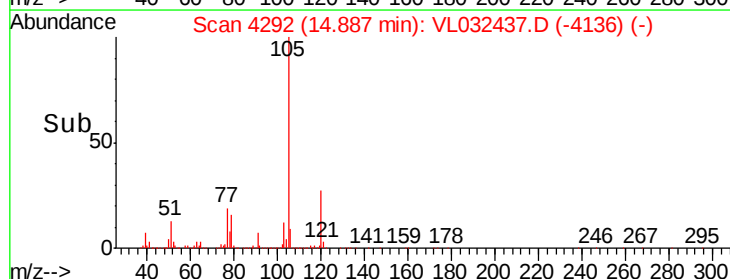
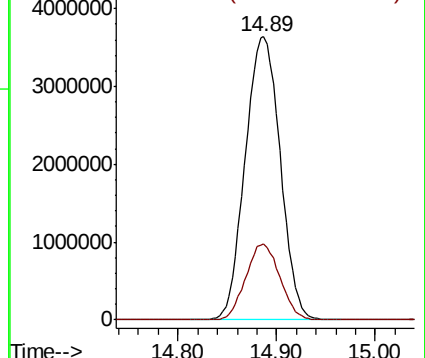
105 100

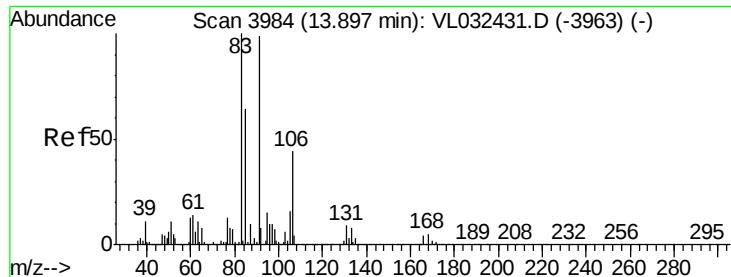
120 26.1 20.6 31.0



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: 9.771 ppbv

RT: 13.90 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

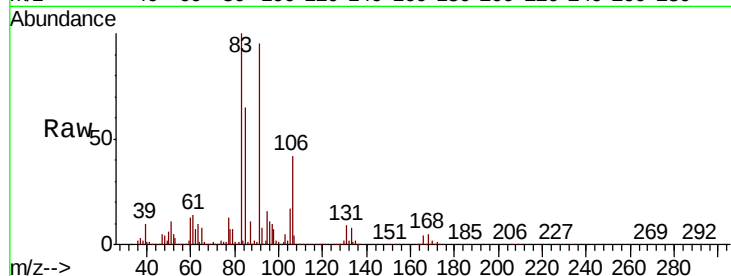
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 4826447

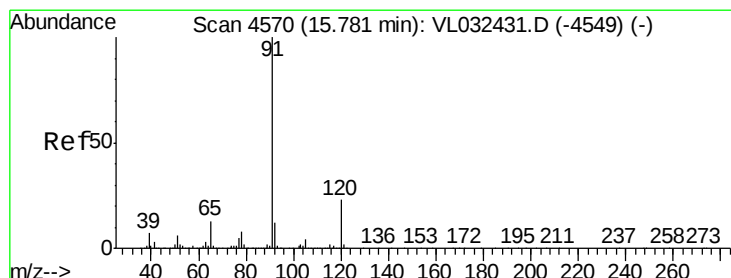
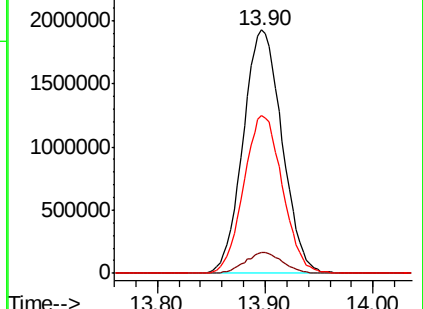
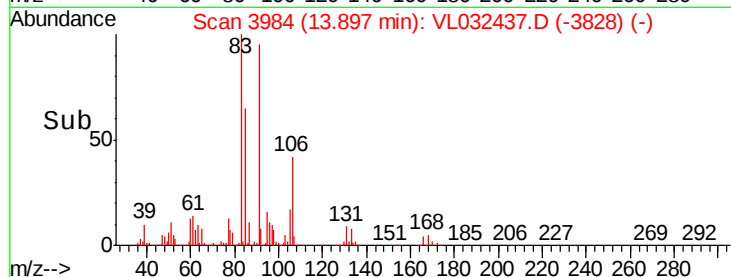
Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	64.7	32.3	96.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.387 ppbv

RT: 15.78 min Scan# 4570

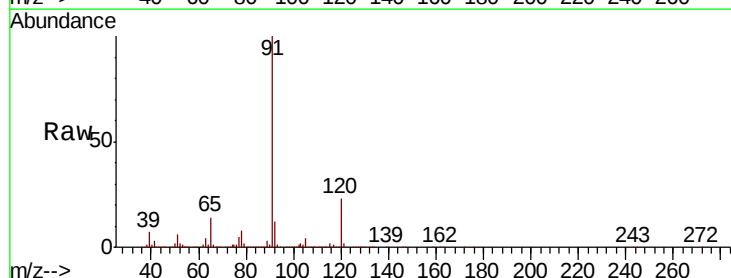
Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

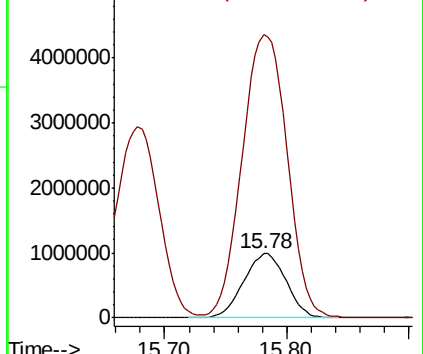
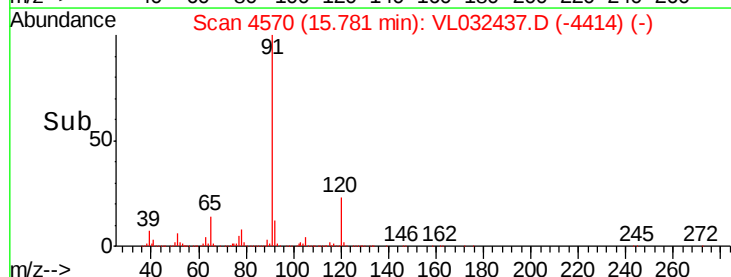
Tgt Ion: 120 Resp: 2382917

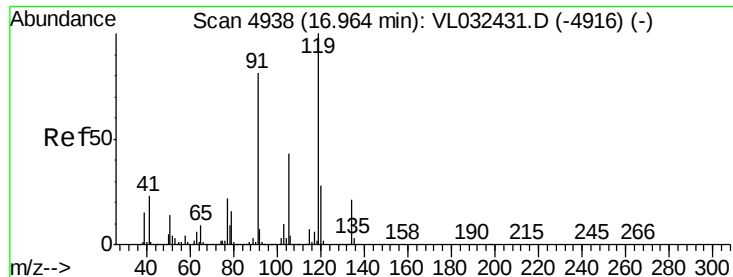
Ion	Ratio	Lower	Upper
120	100		
91	469.5	381.8	572.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

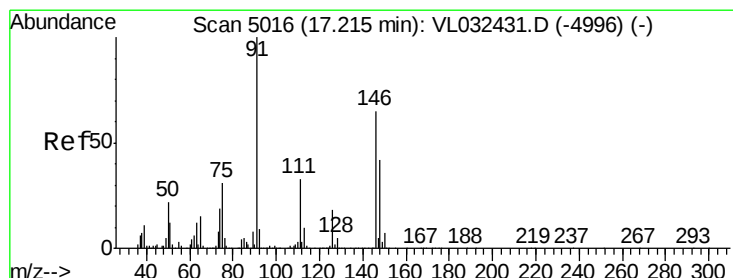
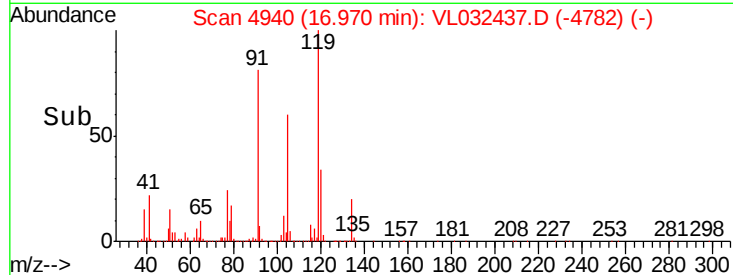
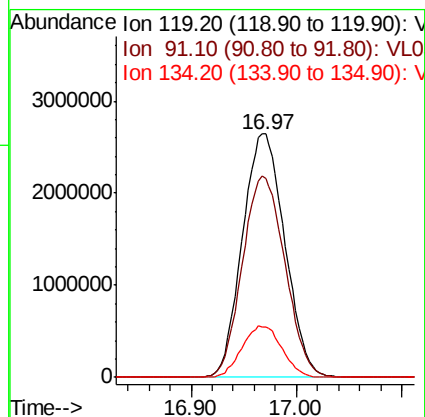
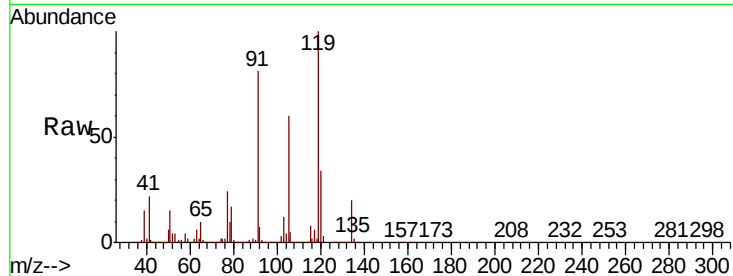




#65
tert-Butylbenzene
Concen: 10.738 ppbv
RT: 16.97 min Scan# 4940
Delta R.T. 0.01 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

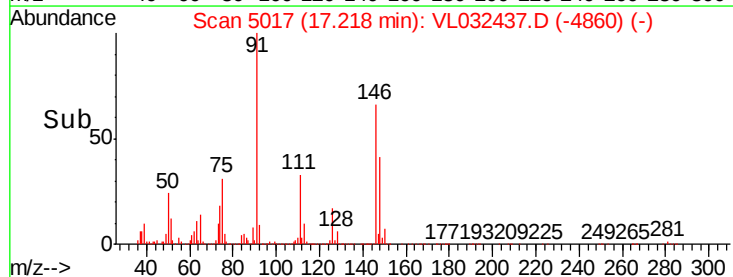
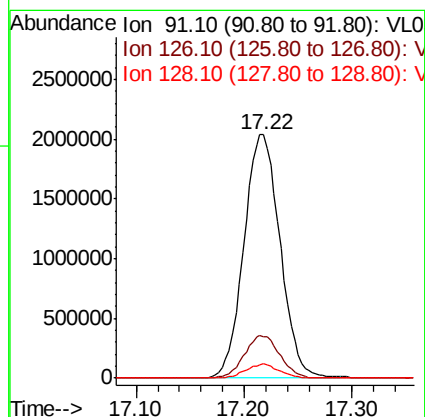
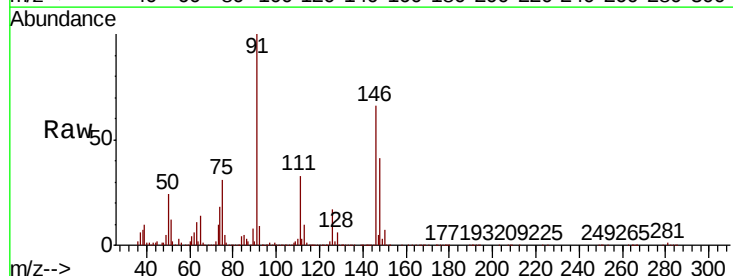
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

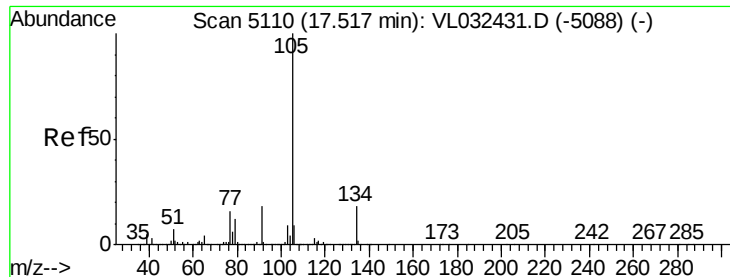
Tgt Ion: 119 Resp: 7379994
Ion Ratio Lower Upper
119 100
91 83.1 66.5 99.7
134 20.0 16.0 24.0



#66
Benzyl Chloride
Concen: 11.112 ppbv
RT: 17.22 min Scan# 5017
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Tgt Ion: 91 Resp: 4736440
Ion Ratio Lower Upper
91 100
126 17.2 13.8 20.8
128 5.4 4.4 6.6

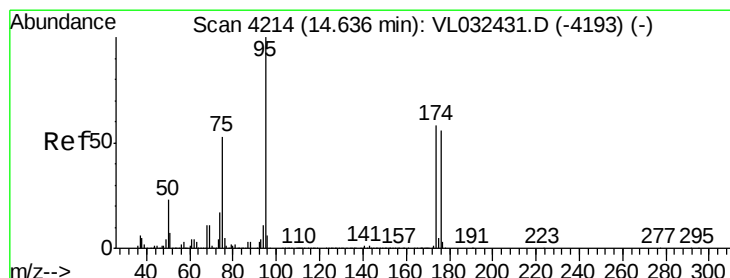
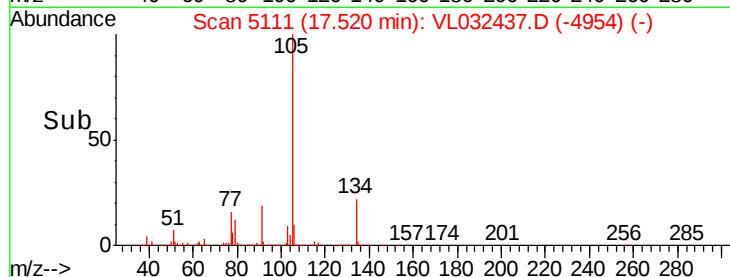
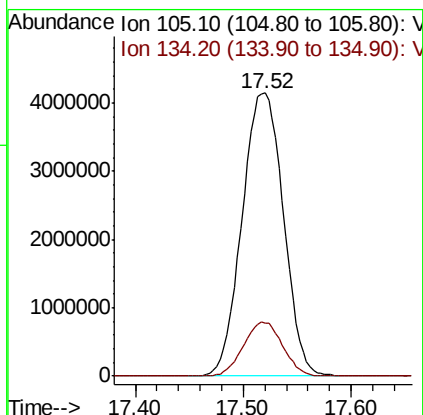
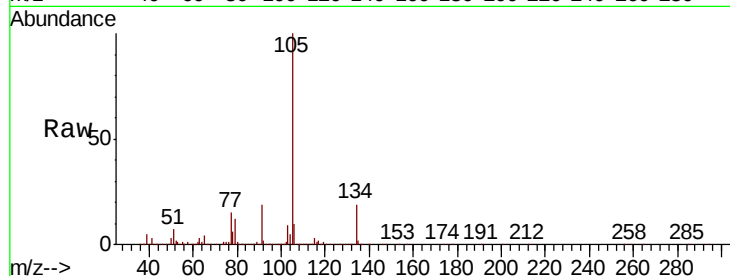




#67
 sec-Butylbenzene
 Concen: 10.793 ppbv
 RT: 17.52 min Scan# 5111
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

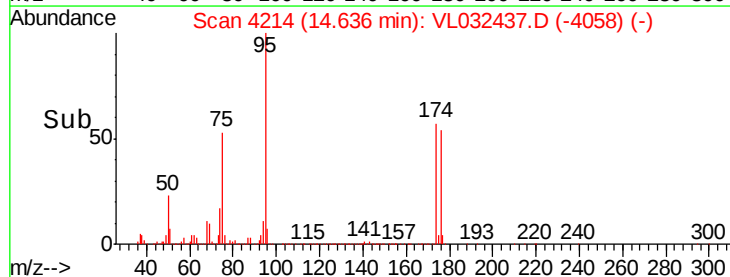
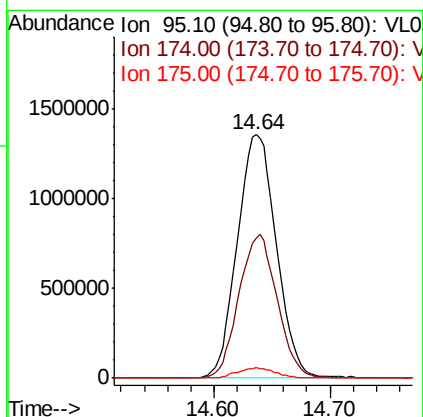
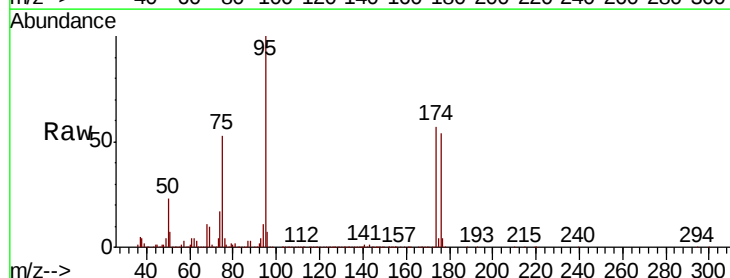
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

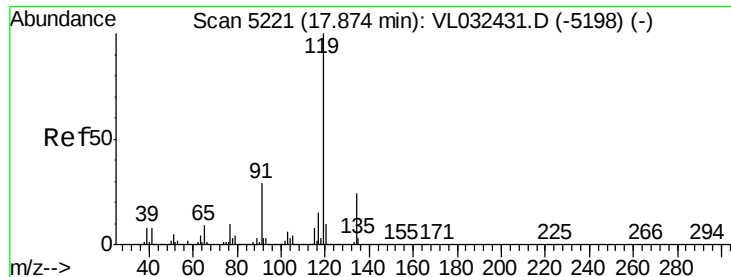
Tgt Ion:105 Resp:11033468
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.4 21.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 7.356 ppbv
 RT: 14.64 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion: 95 Resp: 3176019
 Ion Ratio Lower Upper
 95 100
 174 58.3 46.3 69.5
 175 4.2 3.4 5.0

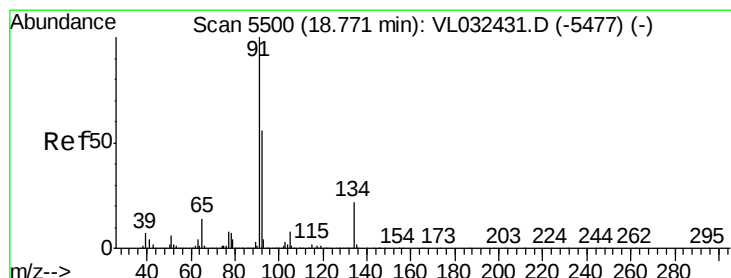
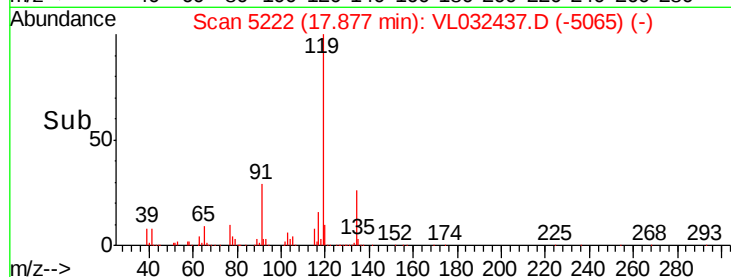
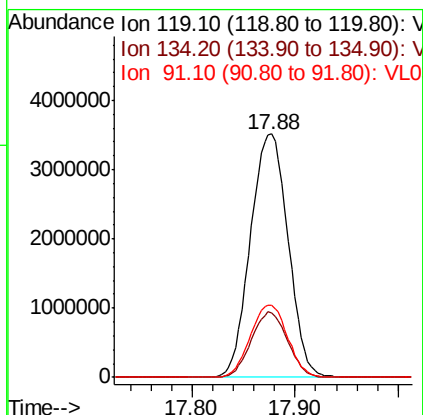
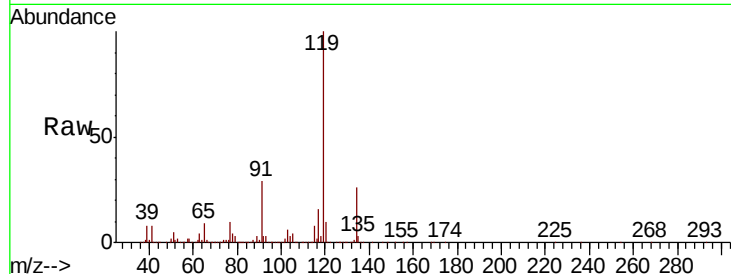




#69
p-Isopropyltoluene
Concen: 11.361 ppbv
RT: 17.88 min Scan# 5222
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

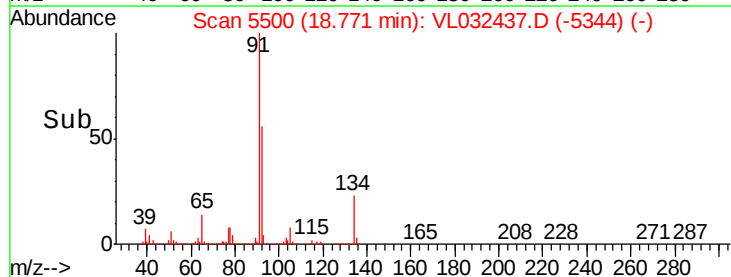
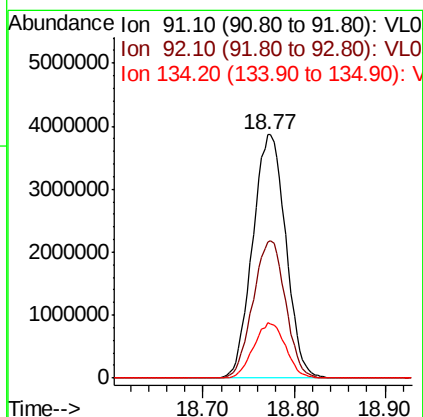
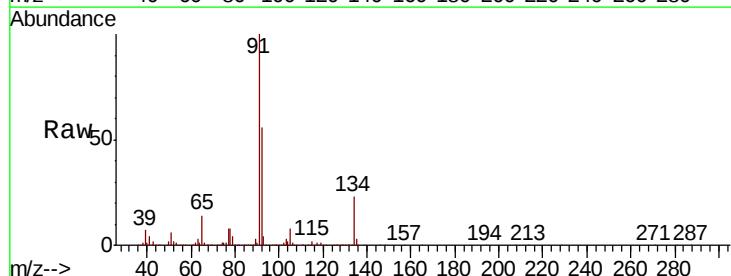
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

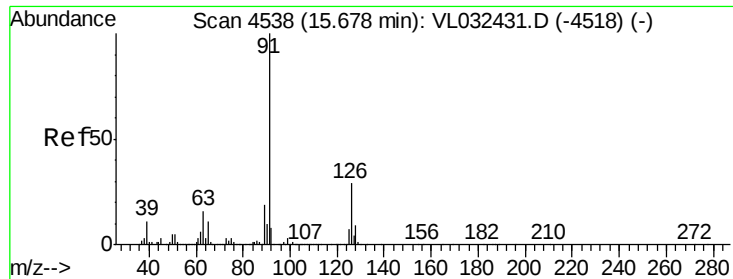
Tgt Ion: 119 Resp: 8904326
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 29.3 23.4 35.0



#70
n-Butylbenzene
Concen: 11.236 ppbv
RT: 18.77 min Scan# 5500
Delta R.T. 0.00 min
Lab File: VL032437.D
Acq: 31 Aug 2018 4:27

Tgt Ion: 91 Resp: 9765833
Ion Ratio Lower Upper
91 100
92 55.4 43.8 65.8
134 21.8 17.4 26.0





#71

2-Chlorotoluene

Concen: 11.716 ppbv

RT: 15.68 min Scan# 4538

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

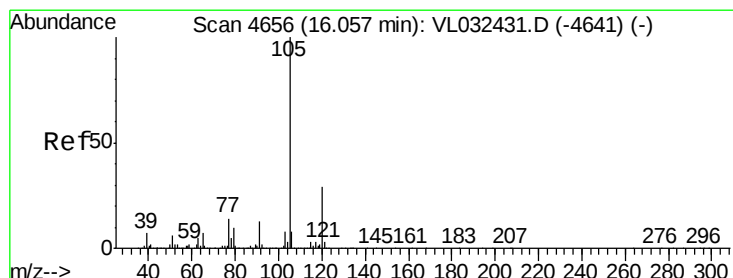
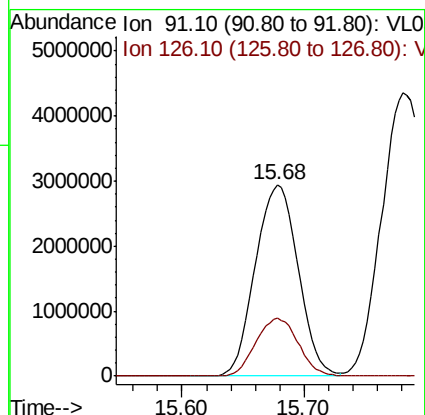
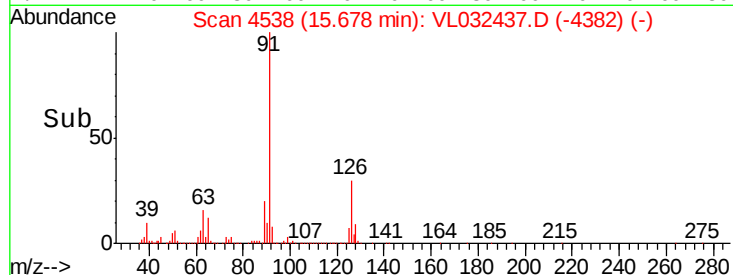
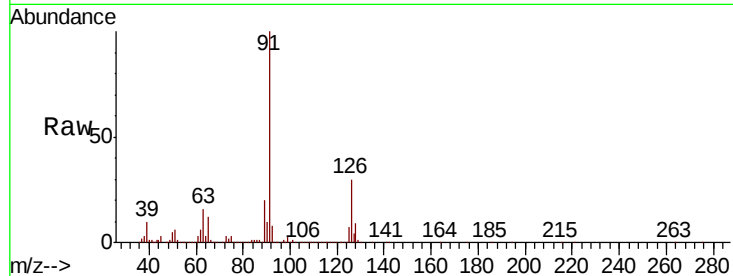
VSTDIC015

Tgt Ion: 91 Resp: 7166498

Ion Ratio Lower Upper

91 100

126 30.0 11.9 47.7



#72

4-Ethyltoluene

Concen: 12.264 ppbv

RT: 16.06 min Scan# 4657

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Tgt Ion: 105 Resp: 7553467

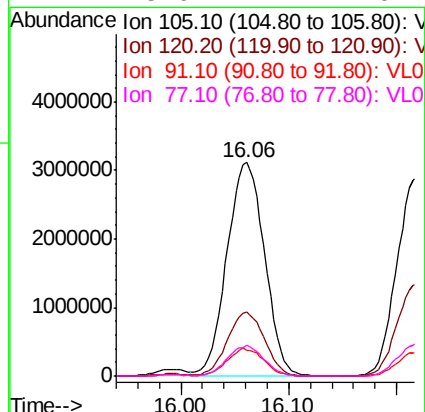
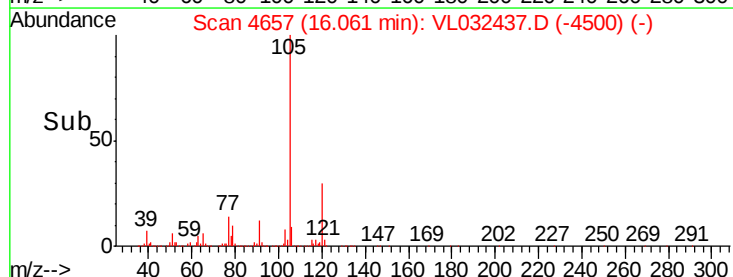
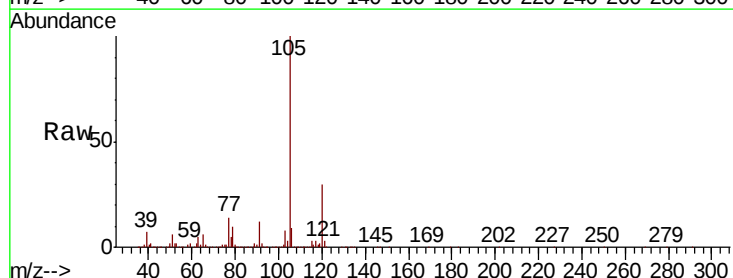
Ion Ratio Lower Upper

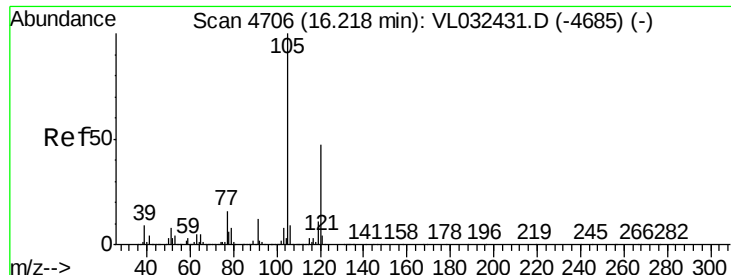
105 100

120 30.4 23.5 35.3

91 12.6 10.2 15.2

77 13.9 11.1 16.7

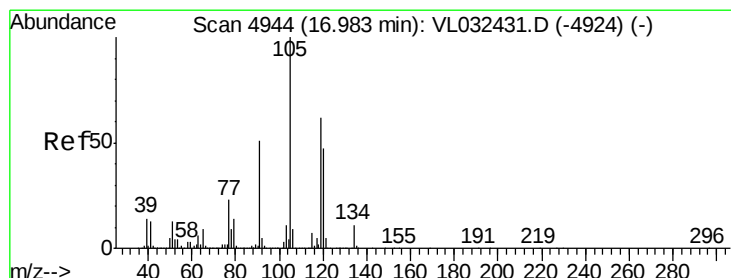
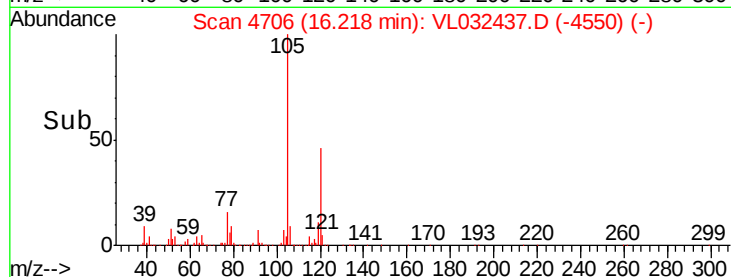
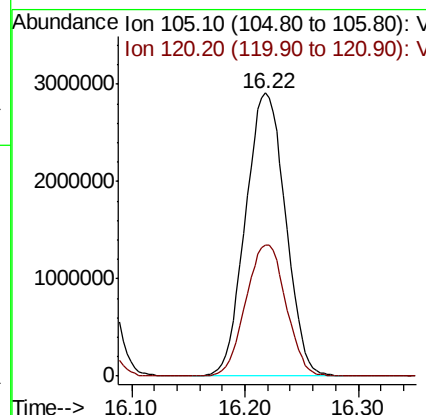
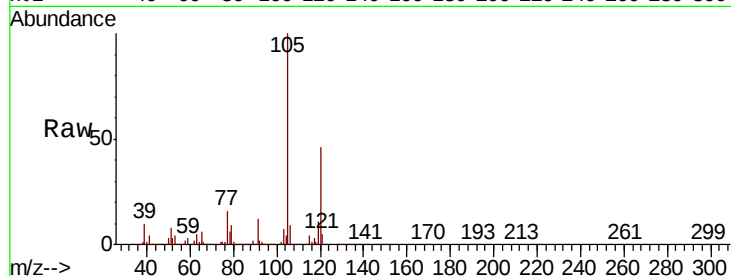




#73
 1,3,5-Trimethylbenzene
 Concen: 12.132 ppbv
 RT: 16.22 min Scan# 4706
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

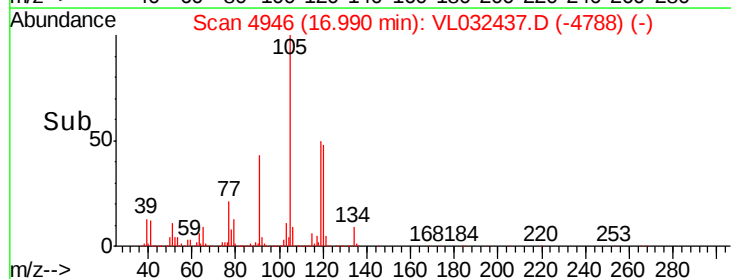
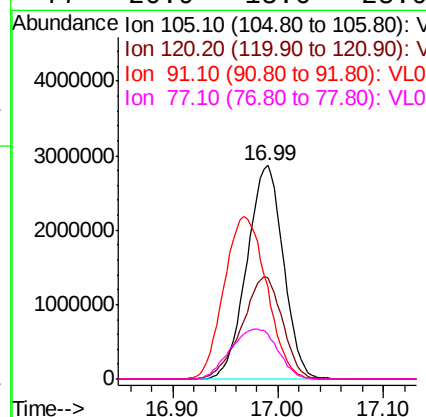
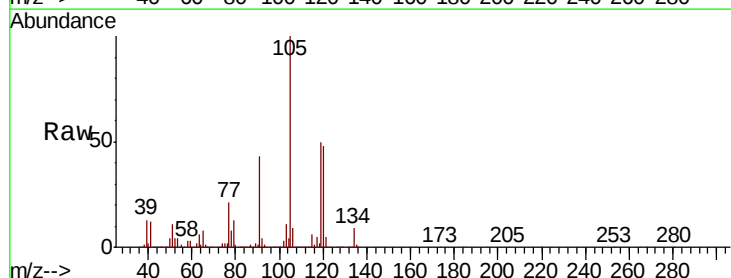
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

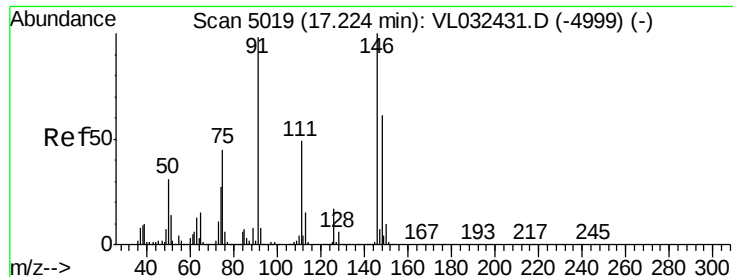
Tgt Ion:105 Resp: 7138763
 Ion Ratio Lower Upper
 105 100
 120 46.1 37.9 56.9



#74
 1,2,4-Trimethylbenzene
 Concen: 10.868 ppbv
 RT: 16.99 min Scan# 4946
 Delta R.T. 0.01 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion:105 Resp: 6902826
 Ion Ratio Lower Upper
 105 100
 120 47.5 37.8 56.8
 91 43.1 41.4 62.0
 77 20.9 18.6 28.0





#75

1,3-Dichlorobenzene

Concen: 9.707 ppbv

RT: 17.23 min Scan# 5020

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

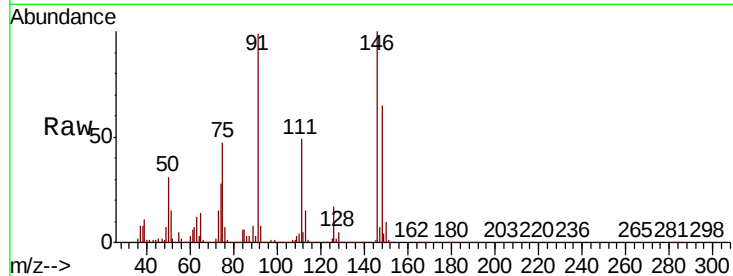
Tgt Ion:146 Resp: 3932064

Ion Ratio Lower Upper

146 100

111 49.0 24.6 73.6

148 64.2 32.0 96.2

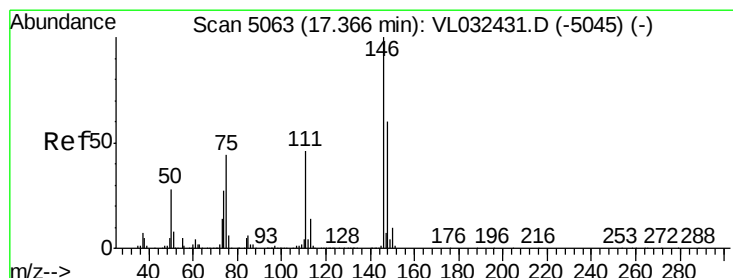
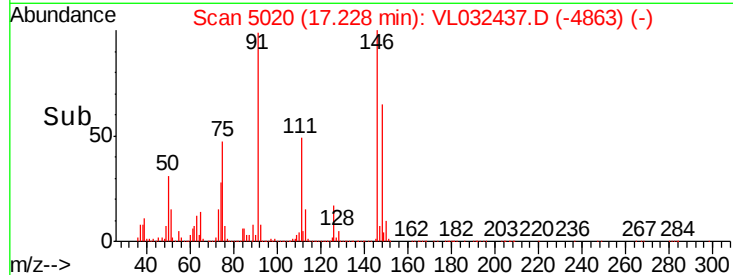
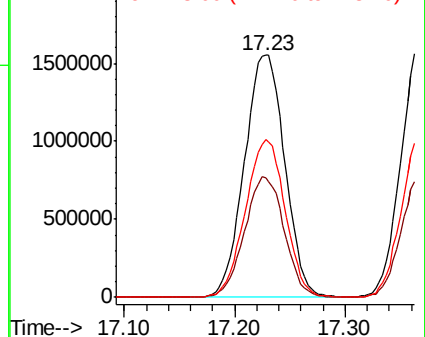


Abundance

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: 10.836 ppbv

RT: 17.37 min Scan# 5064

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

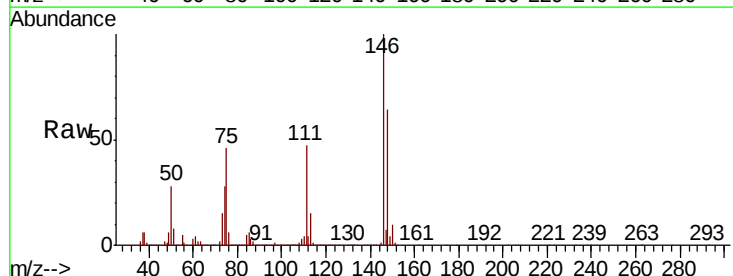
Tgt Ion:146 Resp: 4035135

Ion Ratio Lower Upper

146 100

111 47.0 23.4 70.3

148 64.0 31.9 95.9

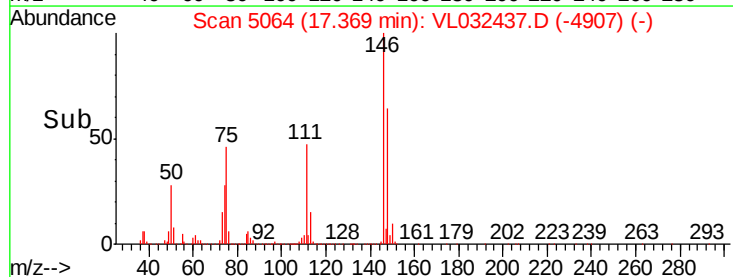
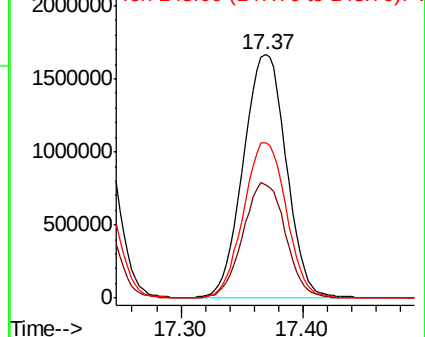


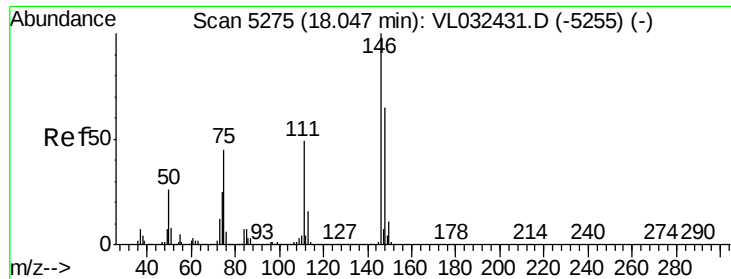
Abundance

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

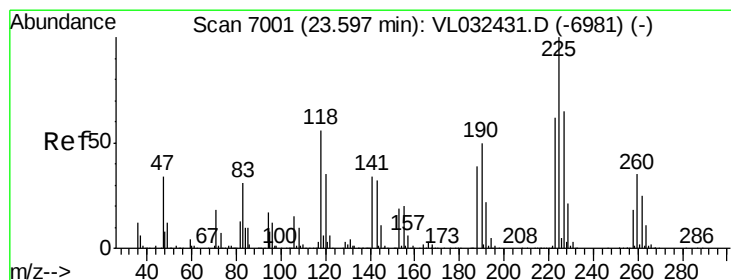
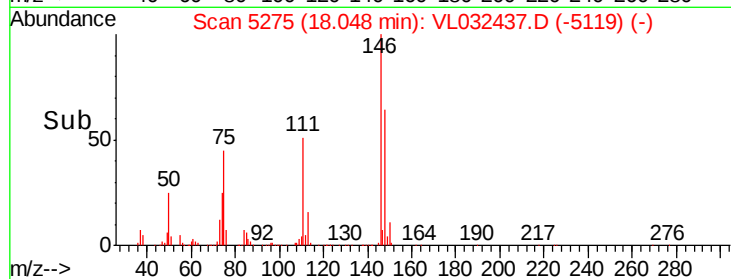
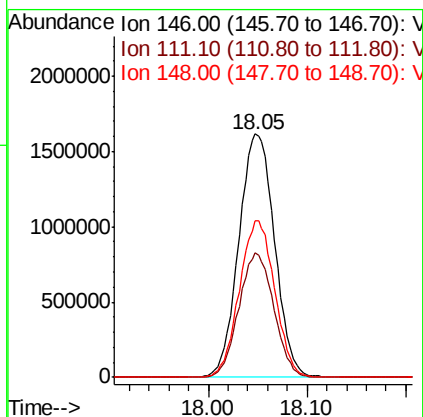
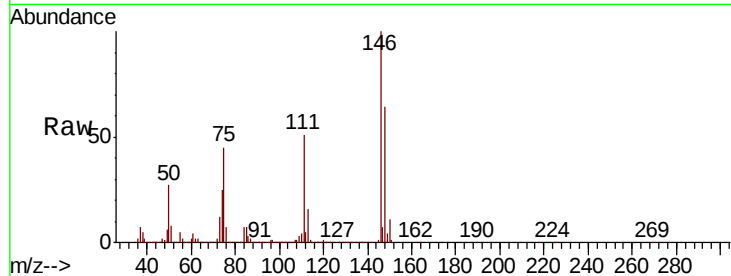




#77
 1,2-Dichlorobenzene
 Concen: 10.423 ppbv
 RT: 18.05 min Scan# 5275
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

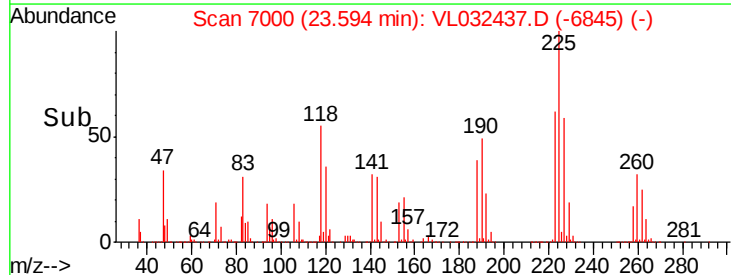
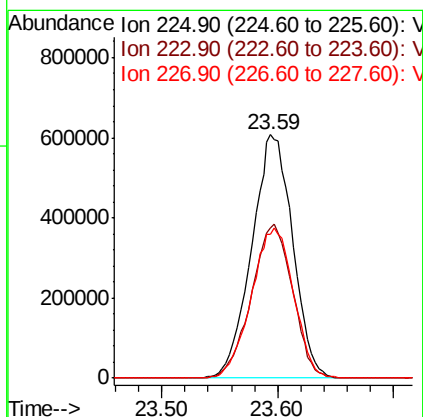
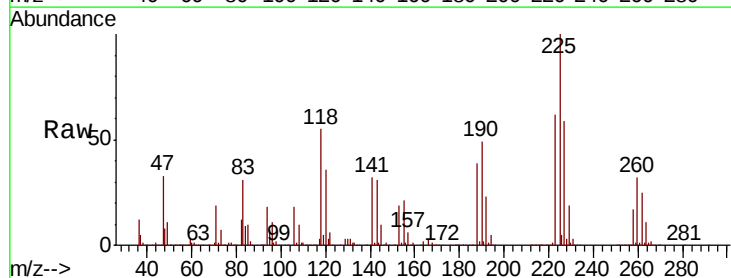
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

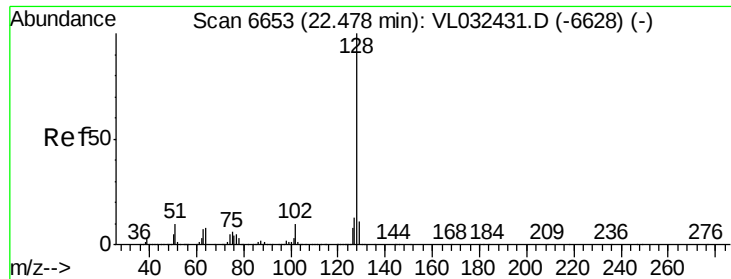
Tgt Ion:146 Resp: 4055014
 Ion Ratio Lower Upper
 146 100
 111 50.0 24.9 74.7
 148 63.6 31.9 95.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.872 ppbv
 RT: 23.59 min Scan# 7000
 Delta R.T. -0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Tgt Ion:225 Resp: 1489480
 Ion Ratio Lower Upper
 225 100
 223 63.6 50.6 76.0
 227 63.3 51.2 76.8





#79

Naphthalene

Concen: 16.432 ppbv

RT: 22.48 min Scan# 6654

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

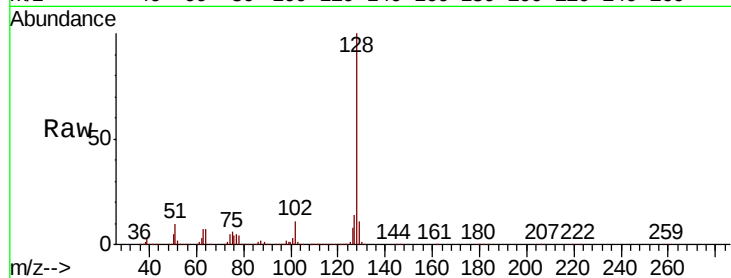
Tgt Ion:128 Resp: 6939665

Ion Ratio Lower Upper

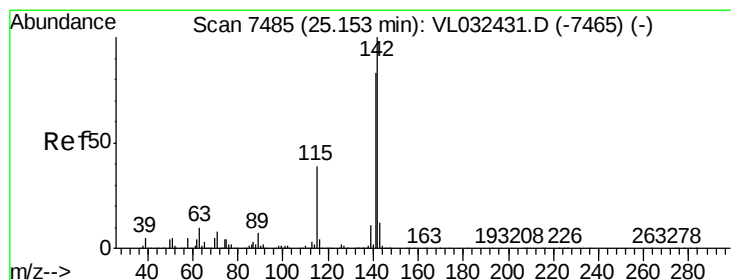
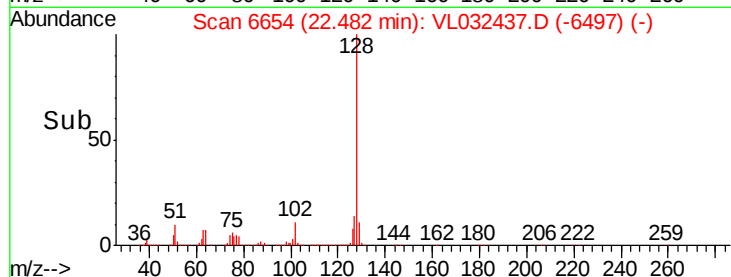
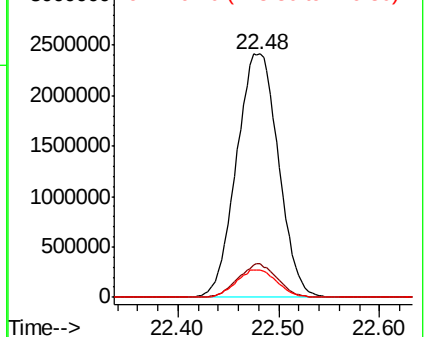
128 100

127 13.6 10.2 15.2

129 11.2 8.5 12.7



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: 24.352 ppbv

RT: 25.15 min Scan# 7485

Delta R.T. 0.00 min

Lab File: VL032437.D

Acq: 31 Aug 2018 4:27

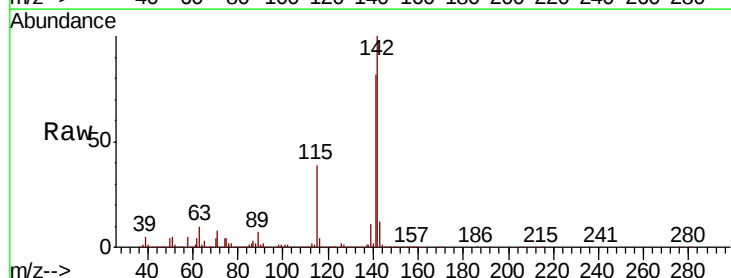
Tgt Ion:142 Resp: 2692027

Ion Ratio Lower Upper

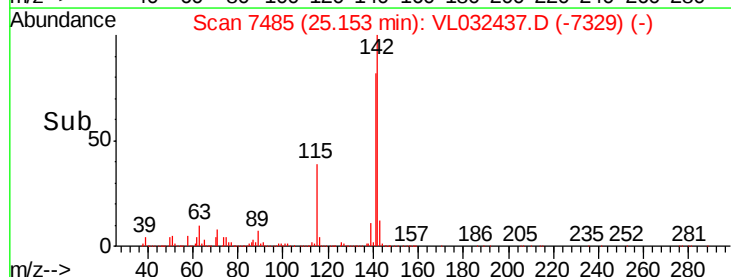
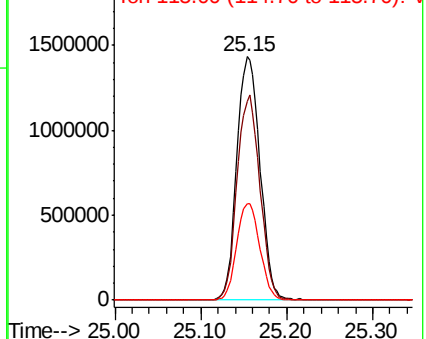
142 100

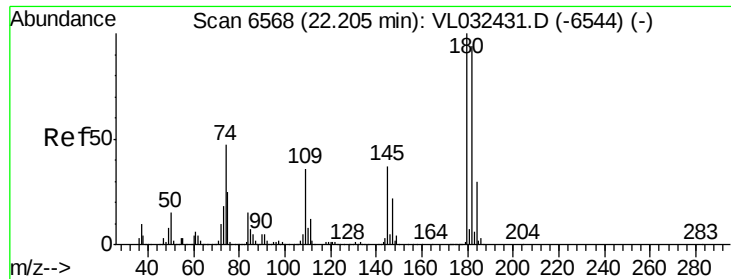
141 83.4 67.0 100.6

115 39.6 31.2 46.8



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

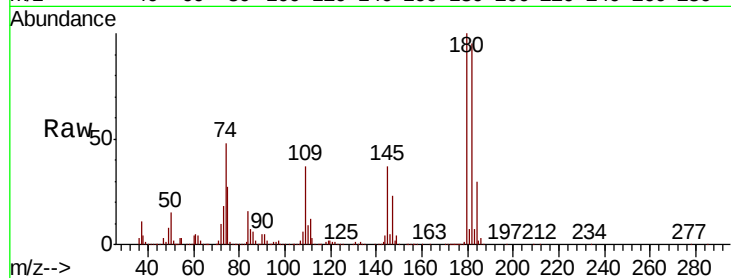




#81
 1,2,4-Trichlorobenzene
 Concen: 14.141 ppbv
 RT: 22.20 min Scan# 6568
 Delta R.T. 0.00 min
 Lab File: VL032437.D
 Acq: 31 Aug 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 3239042
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.2 114.2
 184 30.6 23.9 35.9



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

