

Data File : VL032349.D
Acq On : 15 Aug 2018 10:38
Operator : SY/AP
Sample : VSTDIC002
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Aug 15 12:40:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
QLast Update : Wed Aug 15 11:44:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2456238	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4815985	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.31	117	4768167	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3550340	9.59	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.11	85	425457	1.436	ppbv	98
3) Chlorodifluoromethane	3.05	51	459195	1.870	ppbv	100
4) Chloromethane	3.21	50	264121	1.776	ppbv	99
5) Vinyl Chloride	3.33	62	245810	1.818	ppbv	98
6) Bromomethane	3.56	94	139240	1.876	ppbv	99
7) Chloroethane	3.64	64	91253	1.898	ppbv	95
8) Dichlorotetrafluoroethane	3.26	85	571167	1.909	ppbv	99
9) Propene	3.07	41	196339	1.778	ppbv	99
10) Heptane	8.31	43	602863	1.555	ppbv	97
11) Trichlorofluoromethane	4.05	101	548811	1.939	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.60	101	374243	1.937	ppbv	98
13) Ethanol	3.70	45	53962	1.700	ppbv	96
14) Bromoethene	3.83	108	153789	1.813	ppbv	96
15) Acetone	3.95	43	481159	2.078	ppbv	98
16) 1,3-Butadiene	3.40	39	195242	1.627	ppbv	93
17) tert-Butyl alcohol	4.42	59	81049	1.102	ppbv	99
18) 1,1-Dichloroethene	4.40	96	176431	1.968	ppbv	97
19) Isopropyl Alcohol	4.07	45	321301	2.080	ppbv #	98
20) Methylene Chloride	4.46	84	176693	1.899	ppbv	99
21) Allyl Chloride	4.52	41	300721	1.904	ppbv	99
22) trans-1,2-Dichloroethene	5.01	96	181451	2.099	ppbv	98
23) Vinyl Acetate	5.21	43	827894	1.994	ppbv	99
24) 1,1-Dichloroethane	5.14	63	626720	2.104	ppbv	98
25) Ethyl Acetate	5.83	43	1046426	2.014	ppbv	99
26) Hexane	5.84	57	474633	2.019	ppbv	99
27) Carbon Disulfide	4.67	76	409736	1.917	ppbv	95
28) Methyl tert-Butyl Ether	5.17	73	648713	2.040	ppbv	100
29) Chloroform	5.90	83	636807	1.862	ppbv	94
30) Cyclohexane	7.31	84	334981	1.826	ppbv	85
31) cis-1,2-Dichloroethene	5.70	61	445194	2.043	ppbv	95
32) 1,1,1-Trichloroethane	6.68	97	627443	2.073	ppbv	98
34) 2-Butanone	5.39	43	705304	2.263	ppbv	99
35) Carbon Tetrachloride	7.20	117	613103	2.241	ppbv	96
36) Benzene	7.06	78	869900	2.049	ppbv	99
37) 1,2-Dichloroethane	6.47	62	513839	2.095	ppbv	99
38) Trichloroethene	8.02	130	303653	1.851	ppbv	99
39) 1,2-Dichloropropane	7.80	63	349459	1.636	ppbv	93
40) 1,4-Dioxane	8.03	88	102051	1.627	ppbv	68
41) Tetrahydrofuran	6.22	42	383232	2.173	ppbv	100
42) Bromodichloromethane	7.98	83	675066	1.700	ppbv	97
43) Methyl Methacrylate	8.20	69	345020	1.693	ppbv	98

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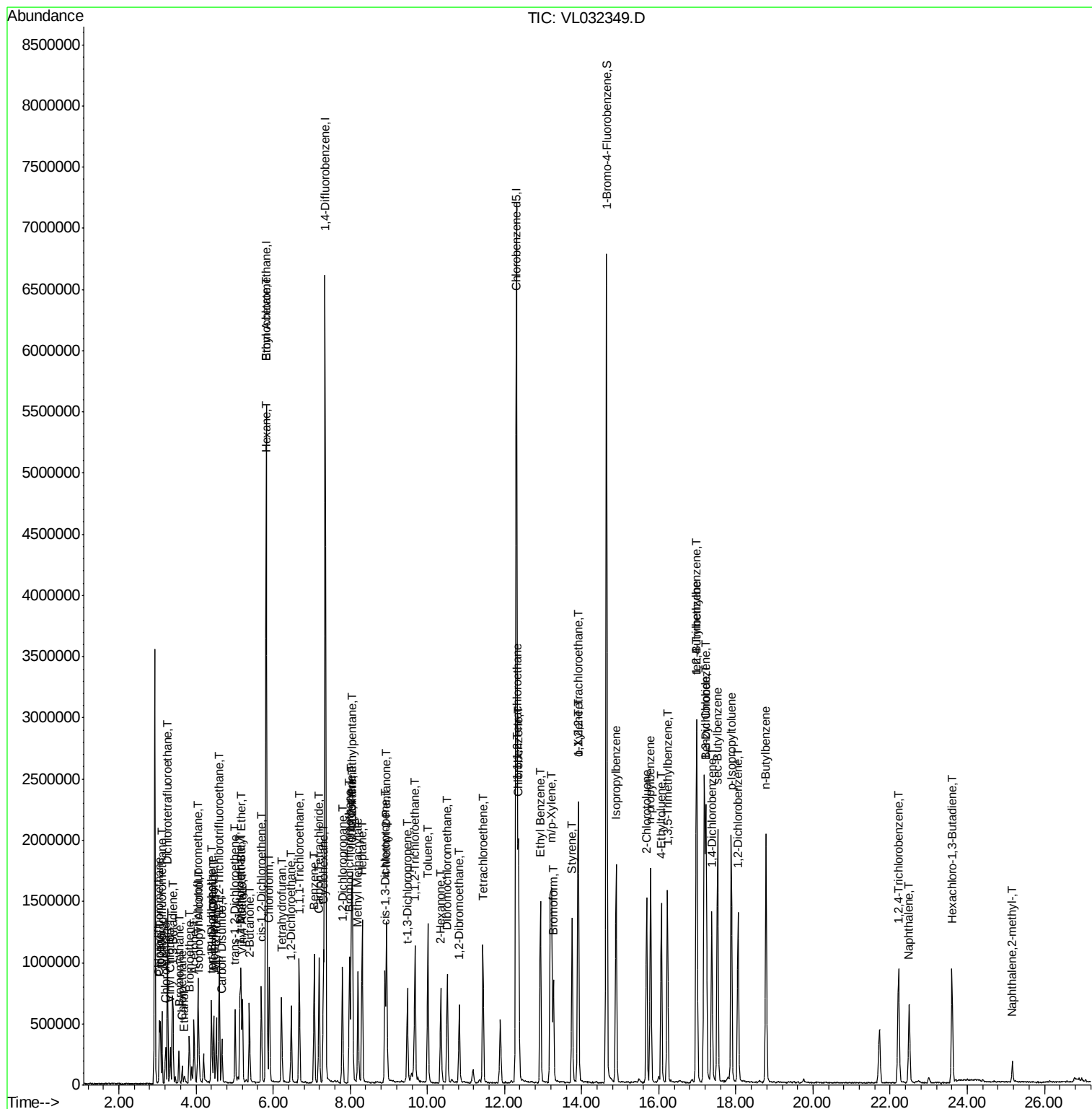
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	1616674	1.756	ppbv	99
45) t-1,3-Dichloropropene	9.48	75	434870	1.842	ppbv	96
46) cis-1,3-Dichloropropene	8.90	75	552092	1.908	ppbv	93
47) 1,1,2-Trichloroethane	9.68	97	390876	1.883	ppbv	96
48) Dibromochloromethane	10.52	129	524347	1.713	ppbv	100
49) Bromoform	13.27	173	449198	1.783	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	1057379	1.922	ppbv	99
51) 2-Hexanone	10.34	43	679009	1.620	ppbv #	100
52) Tetrachloroethene	11.44	164	267539	1.870	ppbv	93
53) Toluene	10.01	91	1015392	2.001	ppbv	99
54) 1,2-Dibromoethane	10.82	107	517603	1.754	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.35	131	426572	2.170	ppbv #	1
57) Chlorobenzene	12.37	112	774293	2.088	ppbv	98
58) Ethyl Benzene	12.93	91	1267147	2.120	ppbv	96
59) m/p-Xylene	13.22	91	665025	1.307	ppbv #	1
60) o-Xylene	13.92	91	1054853	2.114	ppbv	99
61) Styrene	13.75	104	747097	2.034	ppbv	99
62) Isopropylbenzene	14.89	105	1491840	2.104	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.90	83	841837	2.073	ppbv	100
64) n-propylbenzene	15.79	120	382058	2.070	ppbv	93
65) tert-Butylbenzene	16.98	119	1343354	2.243	ppbv	99
66) Benzyl Chloride	17.22	91	761425	2.133	ppbv	97
67) sec-Butylbenzene	17.53	105	1973079	2.200	ppbv	99
69) p-Isopropyltoluene	17.88	119	1539037	2.215	ppbv	100
70) n-Butylbenzene	18.78	91	1651829	2.059	ppbv	97
71) 2-Chlorotoluene	15.69	91	1166354	2.096	ppbv	99
72) 4-Ethyltoluene	16.07	105	1199879	2.146	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	1142612	2.076	ppbv	97
74) 1,2,4-Trimethylbenzene	16.99	105	1234436	2.127	ppbv #	88
75) 1,3-Dichlorobenzene	17.23	146	721851	2.148	ppbv	97
76) 1,4-Dichlorobenzene	17.37	146	693571	2.151	ppbv	99
77) 1,2-Dichlorobenzene	18.05	146	703872	2.132	ppbv	100
78) Hexachloro-1,3-Butadiene	23.60	225	218627	1.883	ppbv	98
79) Naphthalene	22.49	128	786383	1.561	ppbv	98
80) Naphthalene,2-methyl-	25.17	142	88659	0.445	ppbv	98
81) 1,2,4-Trichlorobenzene	22.22	180	439552	1.747	ppbv	99

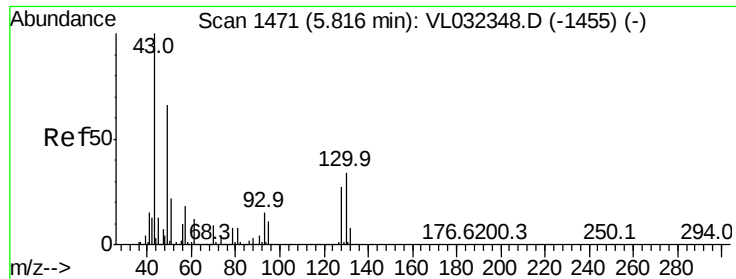
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.02 min

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Instrument :

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ClientSampleId :

VSTDIC002

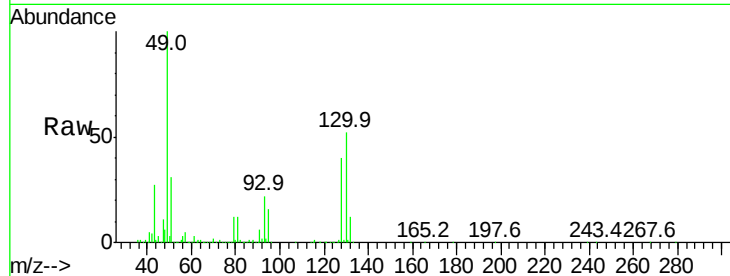
Tgt Ion: 49 Resp: 2456238

Ion Ratio Lower Upper

49 100

128 40.7 20.2 60.6

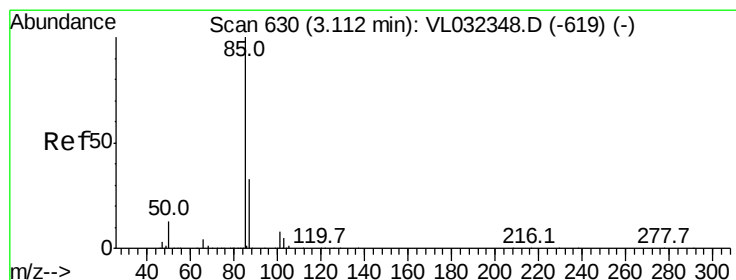
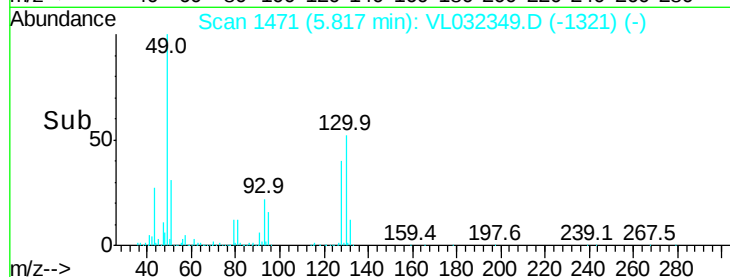
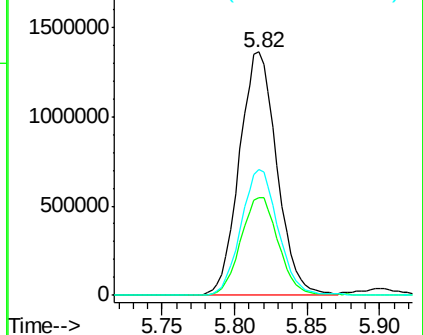
130 51.6 25.8 77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.436 ppbv

RT: 3.11 min Scan# 630

Delta R.T. -0.01 min

Lab File: VL032349.D

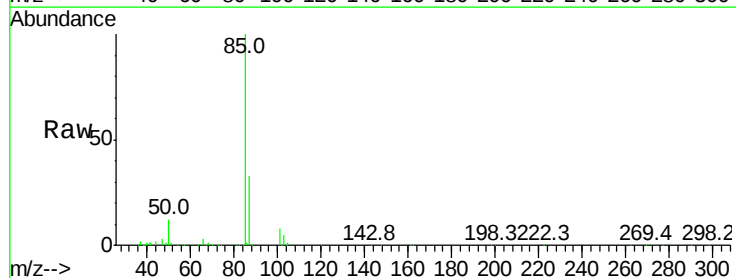
Acq: 15 Aug 2018 10:38

Tgt Ion: 85 Resp: 425457

Ion Ratio Lower Upper

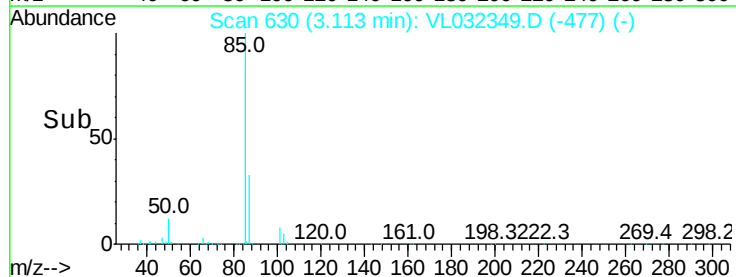
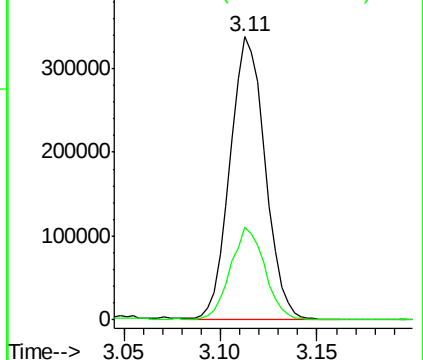
85 100

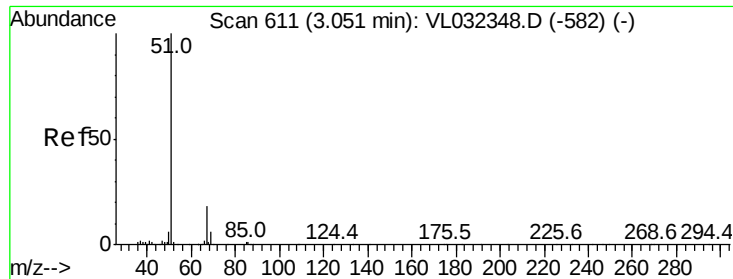
87 32.5 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.870 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

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ClientSampleId :

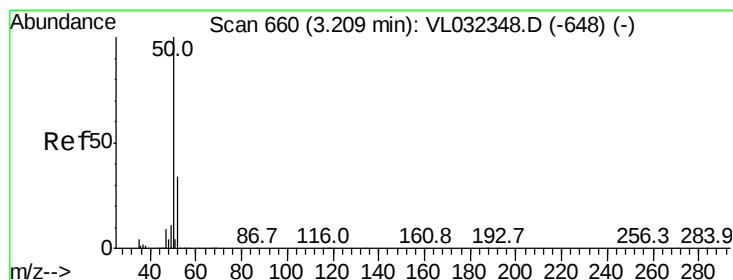
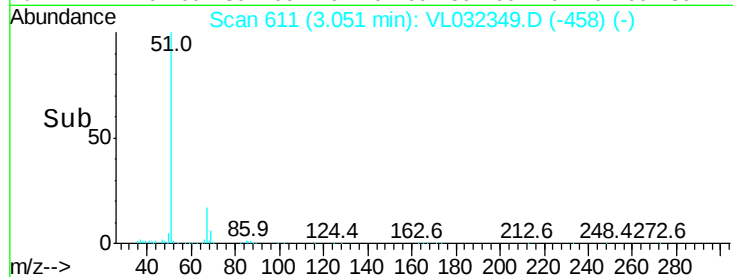
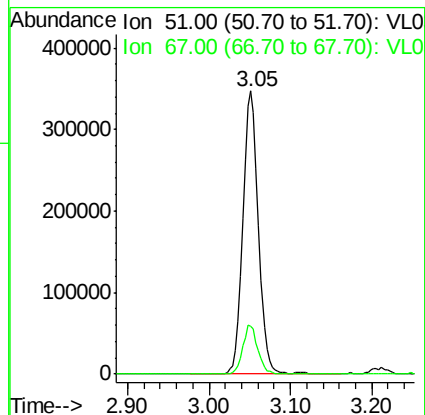
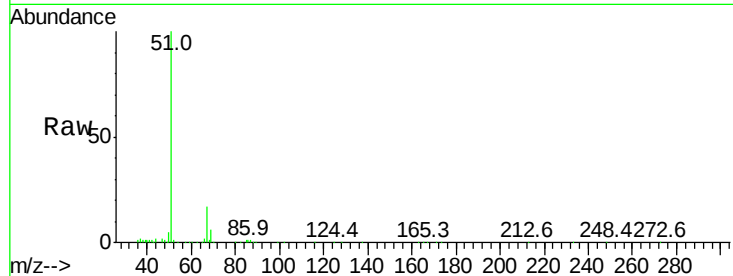
VSTDIC002

Tgt Ion: 51 Resp: 459195

Ion Ratio Lower Upper

51 100

67 16.9 13.5 20.3



#4

Chloromethane

Concen: 1.776 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL032349.D

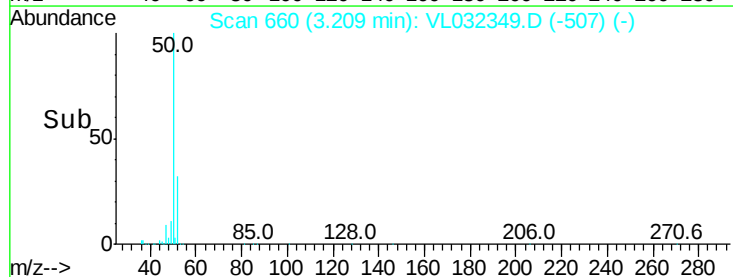
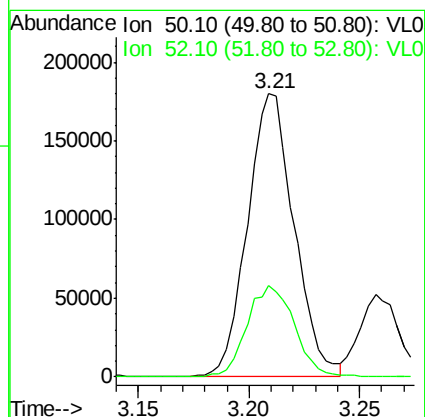
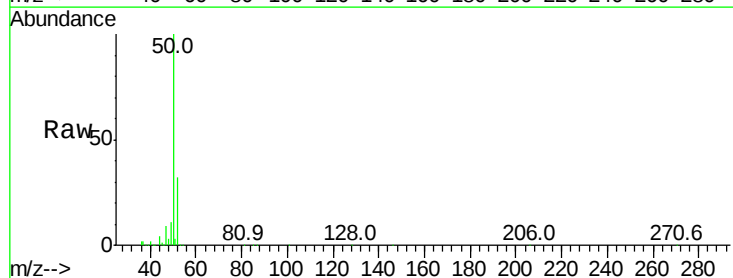
Acq: 15 Aug 2018 10:38

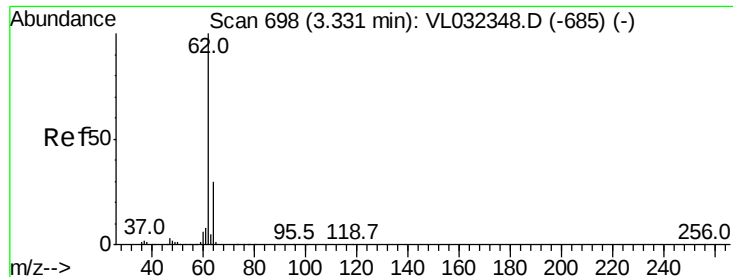
Tgt Ion: 50 Resp: 264121

Ion Ratio Lower Upper

50 100

52 32.4 26.2 39.4





#5

Vinyl Chloride

Concen: 1.818 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

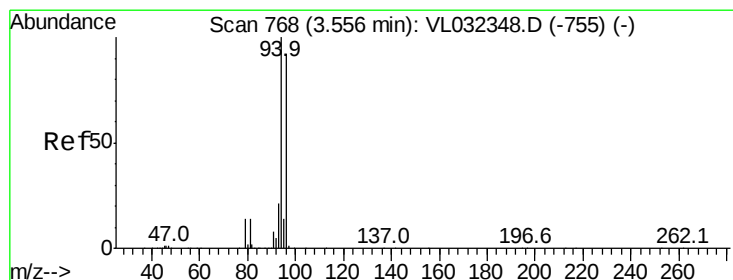
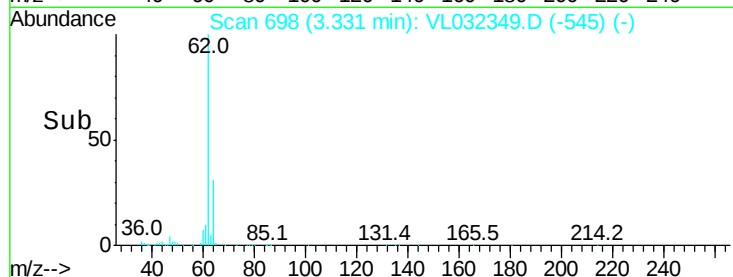
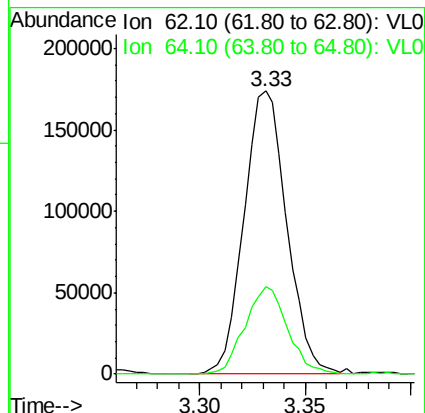
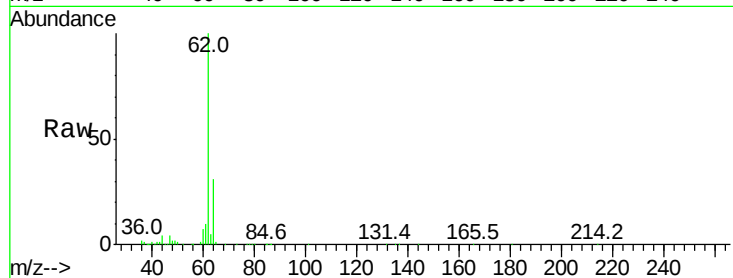
VSTDIC002

Tgt Ion: 62 Resp: 245810

Ion Ratio Lower Upper

62 100

64 31.0 24.1 36.1



#6

Bromomethane

Concen: 1.876 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.01 min

Lab File: VL032349.D

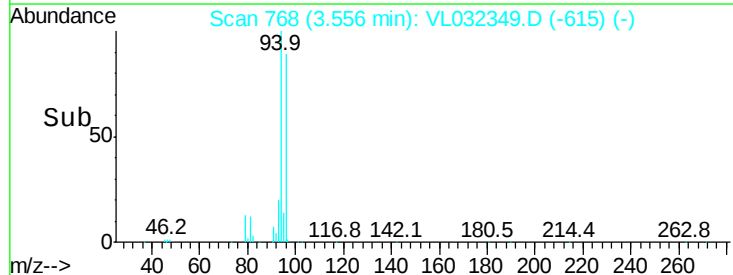
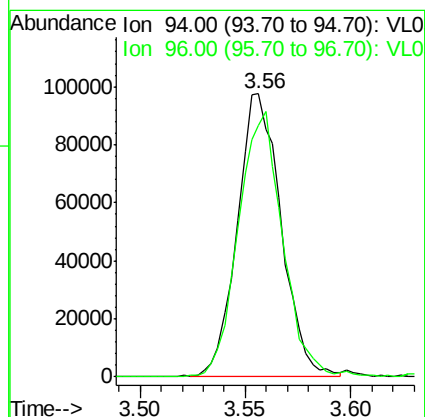
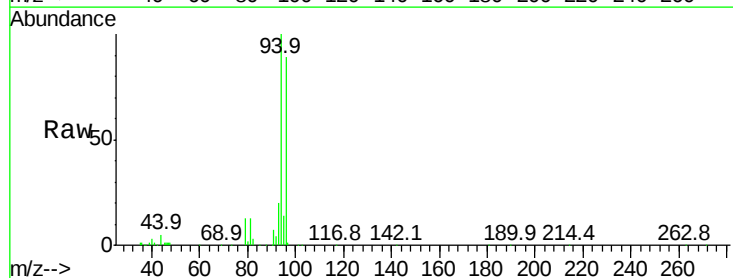
Acq: 15 Aug 2018 10:38

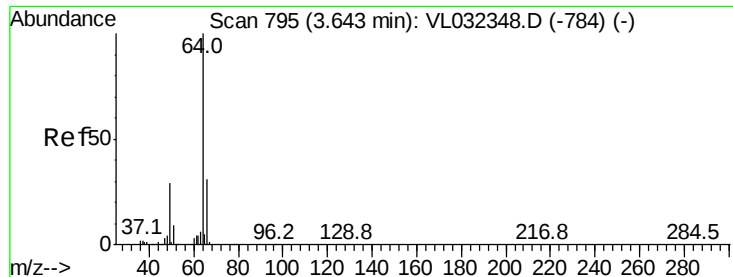
Tgt Ion: 94 Resp: 139240

Ion Ratio Lower Upper

94 100

96 88.6 70.2 105.4





#7

Chloroethane

Concen: 1.898 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

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ClientSampleId :

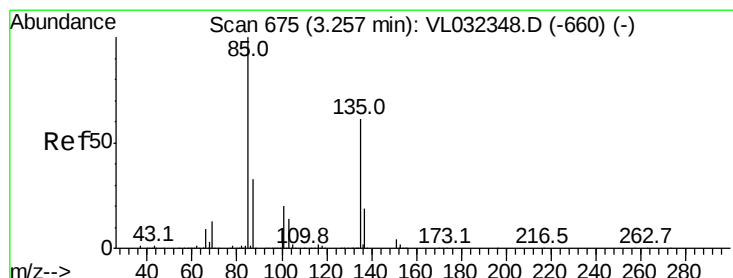
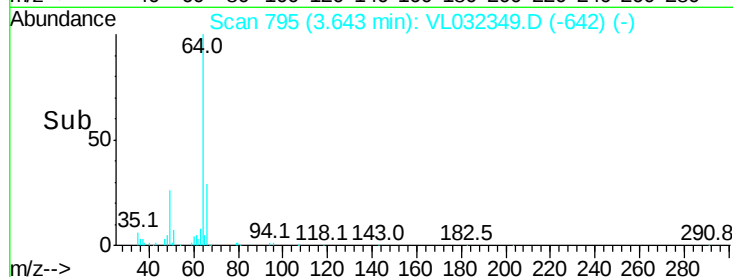
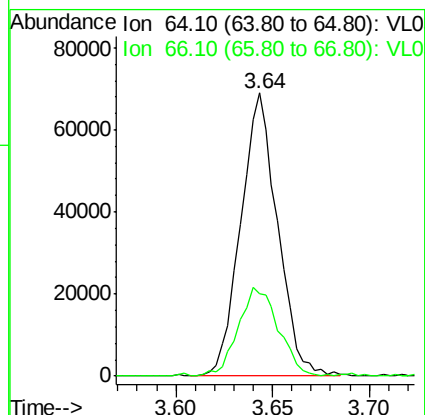
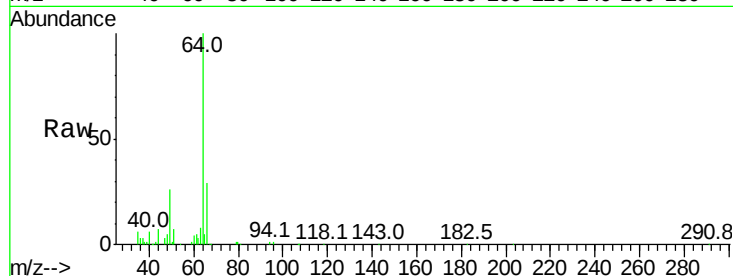
VSTDIC002

Tgt Ion: 64 Resp: 91253

Ion Ratio Lower Upper

64 100

66 29.3 25.7 38.5



#8

Dichlorotetrafluoroethane

Concen: 1.909 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.01 min

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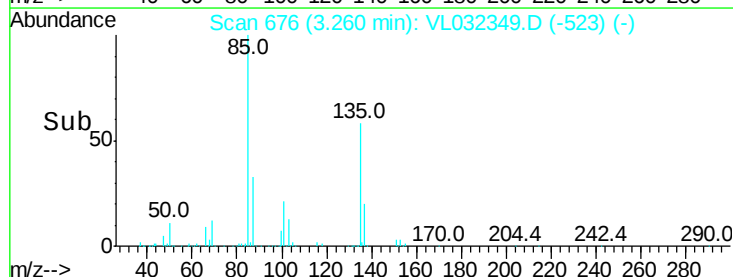
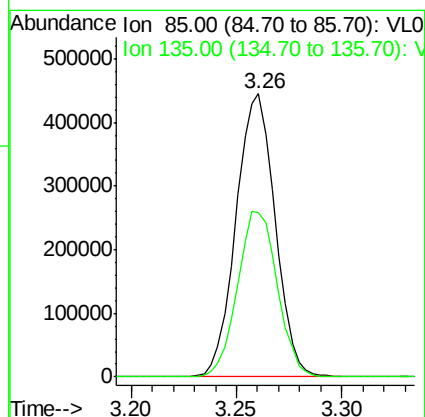
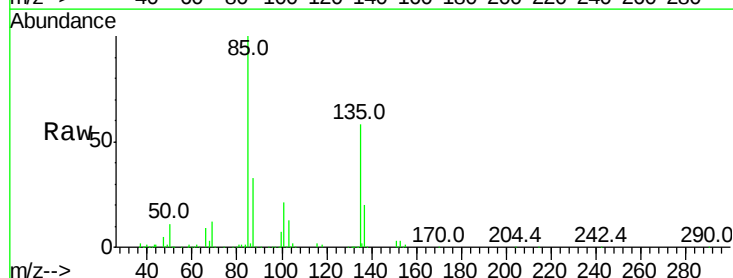
Acq: 15 Aug 2018 10:38

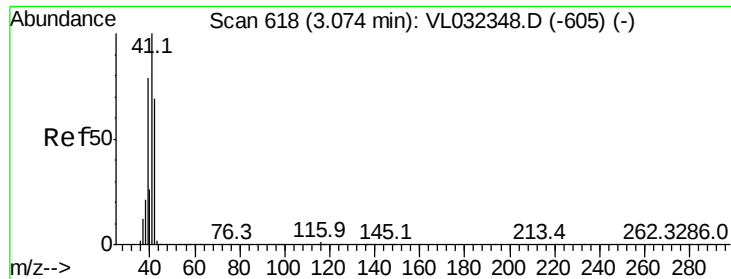
Tgt Ion: 85 Resp: 571167

Ion Ratio Lower Upper

85 100

135 60.1 48.7 73.1





#9

Propene

Concen: 1.778 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.01 min

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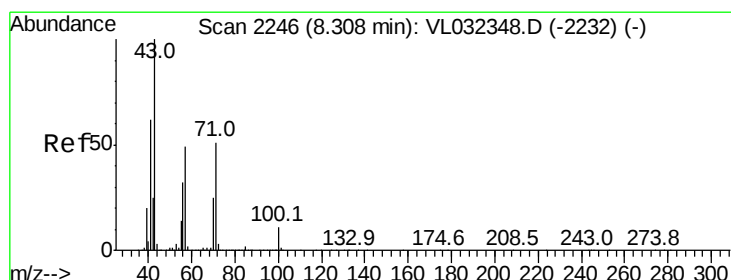
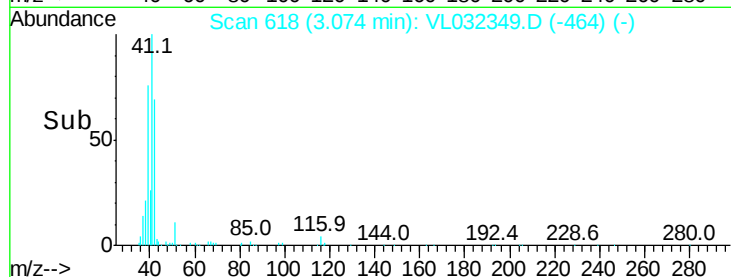
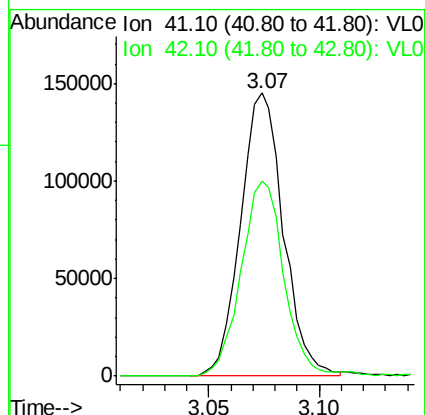
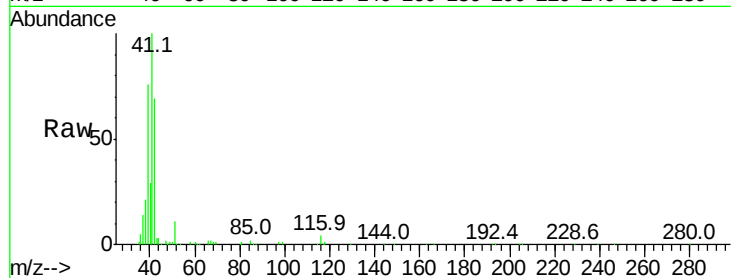
VSTDIC002

Tgt Ion: 41 Resp: 196339

Ion Ratio Lower Upper

41 100

42 69.8 56.8 85.2



#10

Heptane

Concen: 1.555 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. -0.02 min

Lab File: VL032349.D

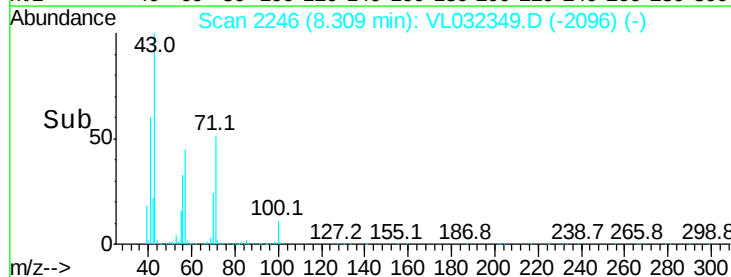
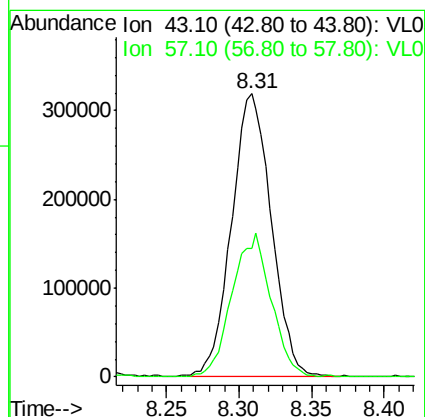
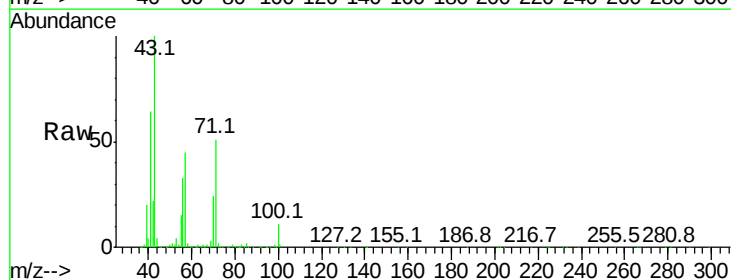
Acq: 15 Aug 2018 10:38

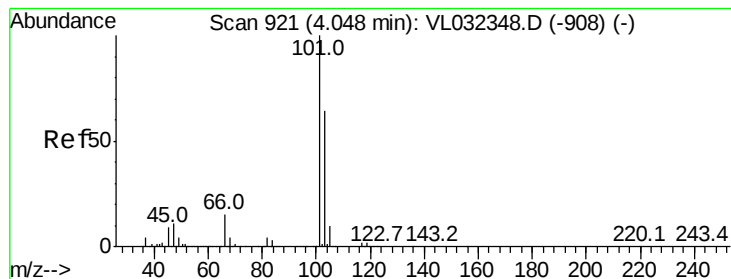
Tgt Ion: 43 Resp: 602863

Ion Ratio Lower Upper

43 100

57 50.7 39.0 58.4





#11

Trichlorofluoromethane

Concen: 1.939 ppbv

RT: 4.05 min Scan# 922

Delta R.T. -0.01 min

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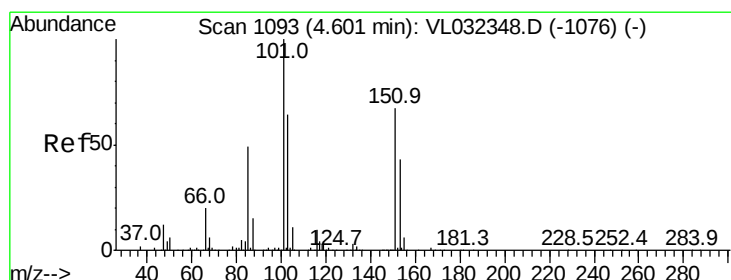
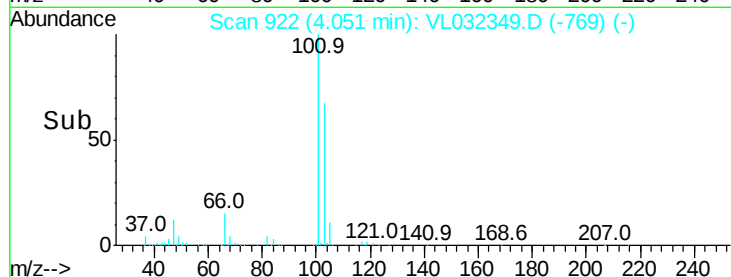
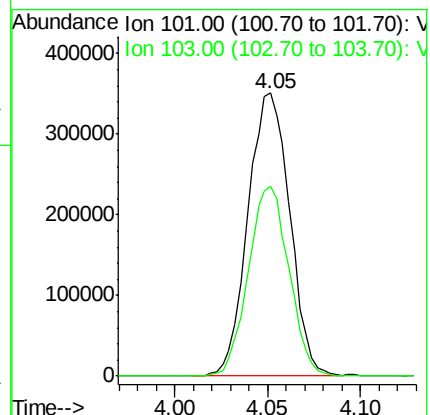
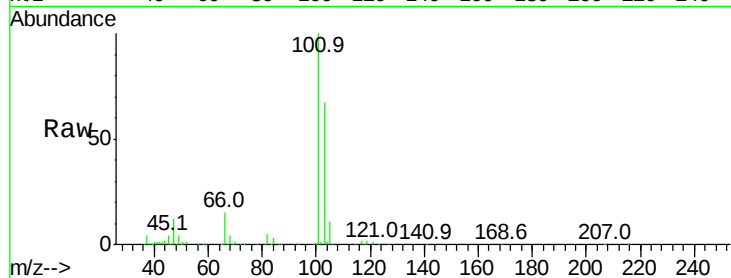
VSTDIC002

Tgt Ion:101 Resp: 548811

Ion Ratio Lower Upper

101 100

103 67.3 52.6 78.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.937 ppbv

RT: 4.60 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VL032349.D

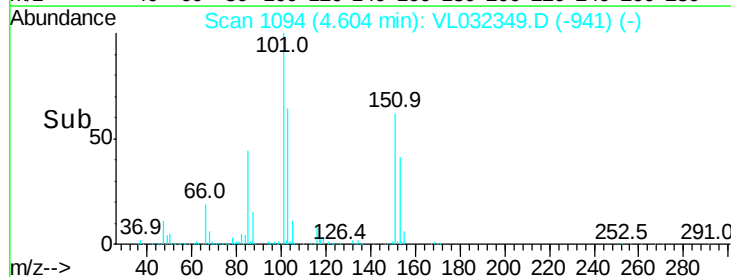
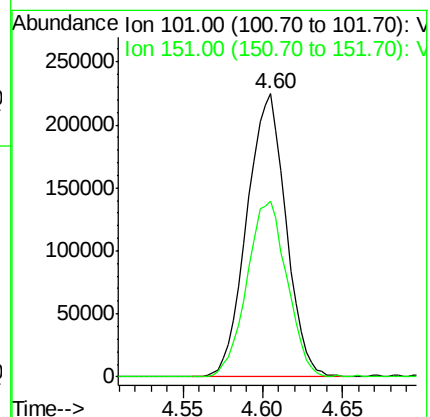
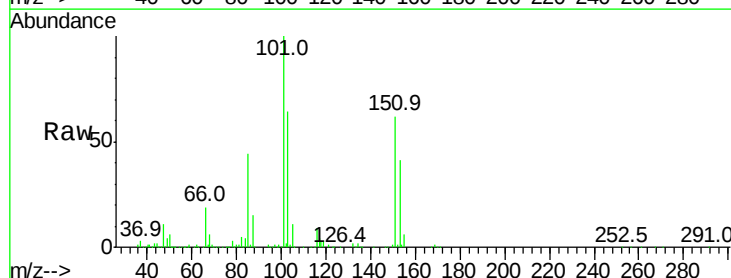
Acq: 15 Aug 2018 10:38

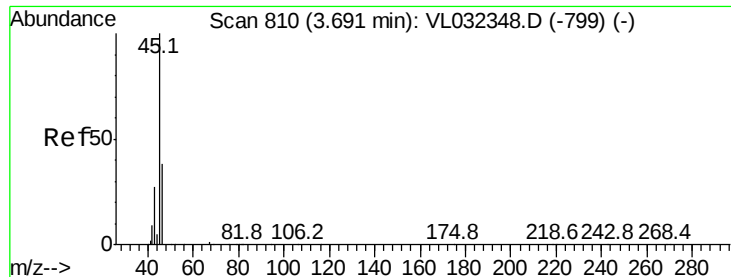
Tgt Ion:101 Resp: 374243

Ion Ratio Lower Upper

101 100

151 63.9 52.4 78.6





#13

Ethanol

Concen: 1.700 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

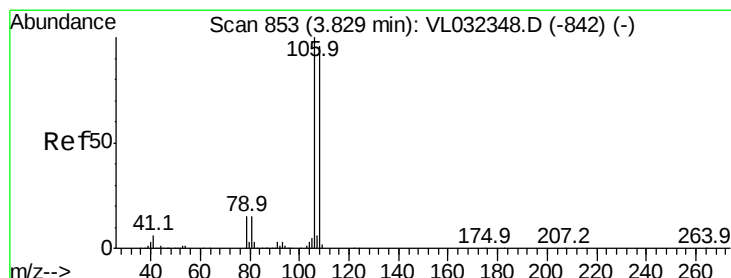
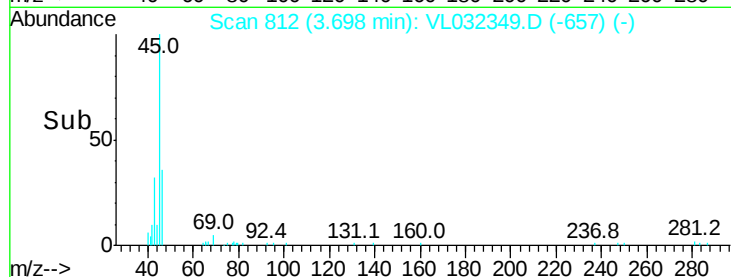
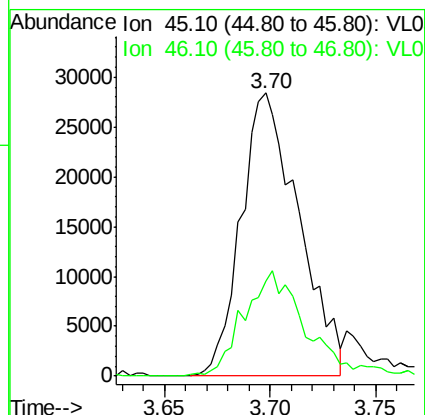
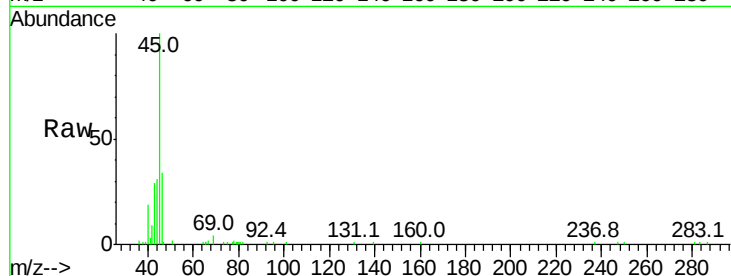
VSTDIC002

Tgt Ion: 45 Resp: 53962

Ion Ratio Lower Upper

45 100

46 40.4 15.2 60.6



#14

Bromoethene

Concen: 1.813 ppbv

RT: 3.83 min Scan# 854

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

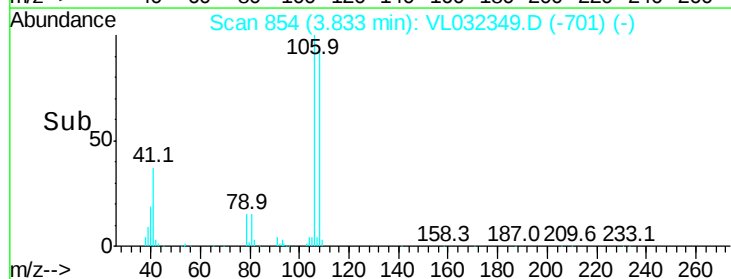
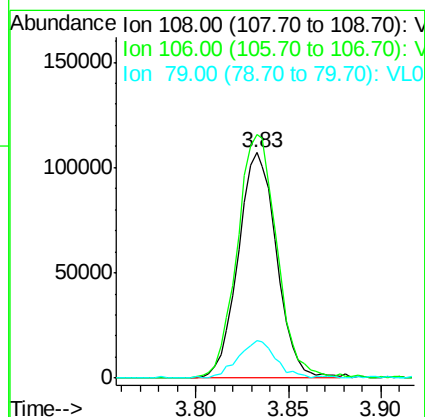
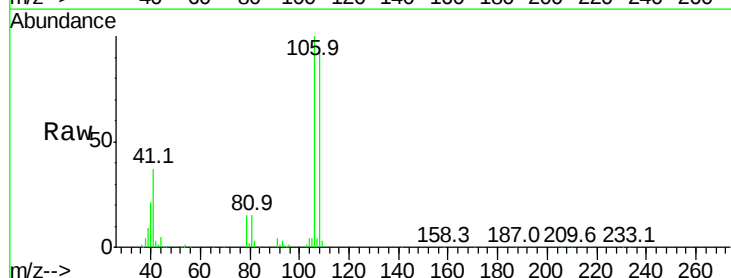
Tgt Ion: 108 Resp: 153789

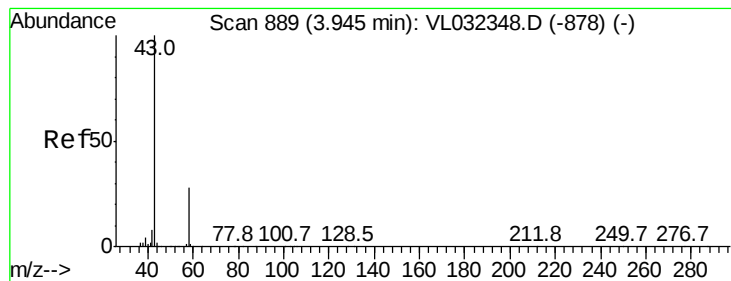
Ion Ratio Lower Upper

108 100

106 112.6 86.0 129.0

79 16.8 12.8 19.2





#15

Acetone

Concen: 2.078 ppbv

RT: 3.95 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

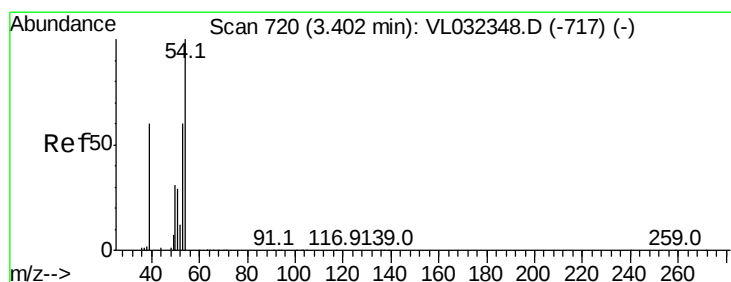
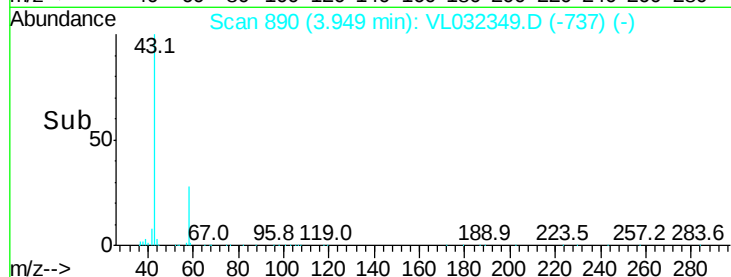
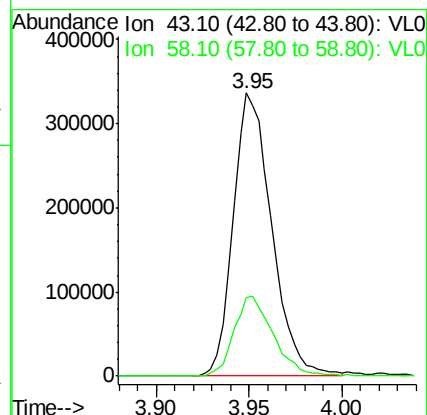
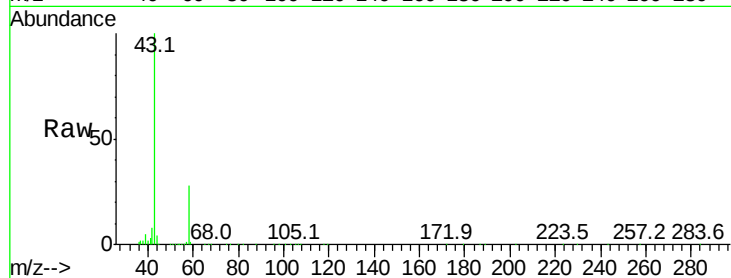
VSTDIC002

Tgt Ion: 43 Resp: 481159

Ion Ratio Lower Upper

43 100

58 29.3 22.5 33.7



#16

1,3-Butadiene

Concen: 1.627 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.01 min

Lab File: VL032349.D

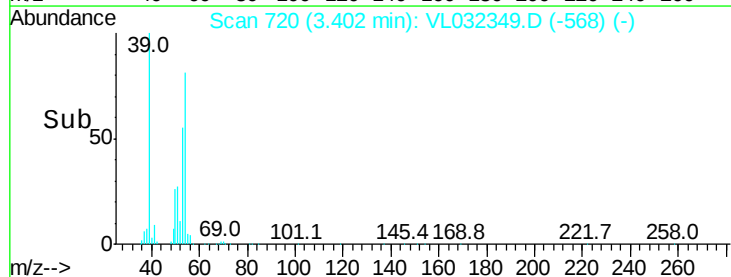
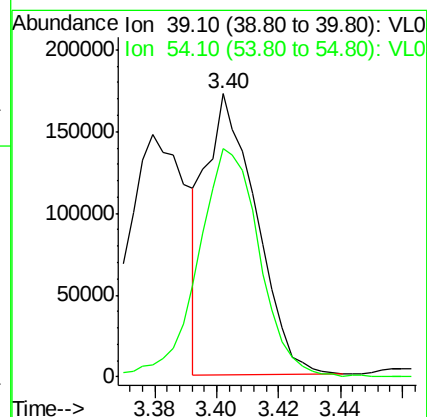
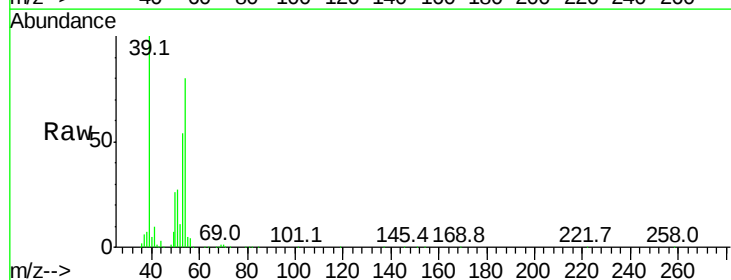
Acq: 15 Aug 2018 10:38

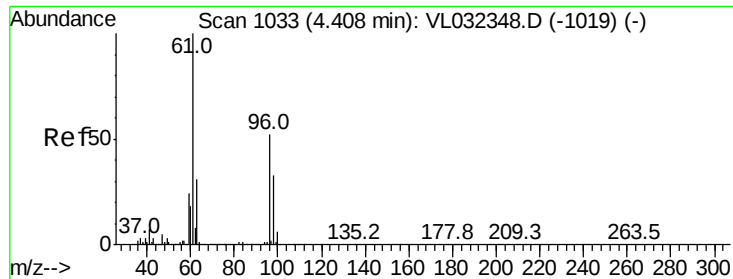
Tgt Ion: 39 Resp: 195242

Ion Ratio Lower Upper

39 100

54 99.4 74.3 111.5

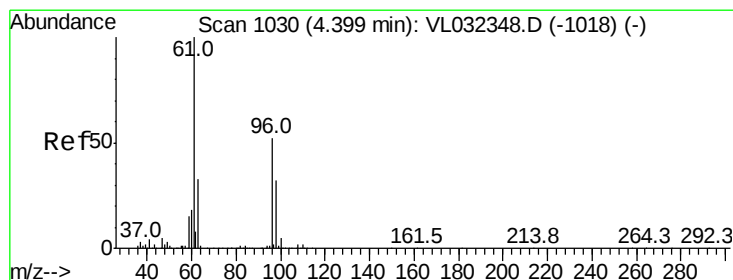
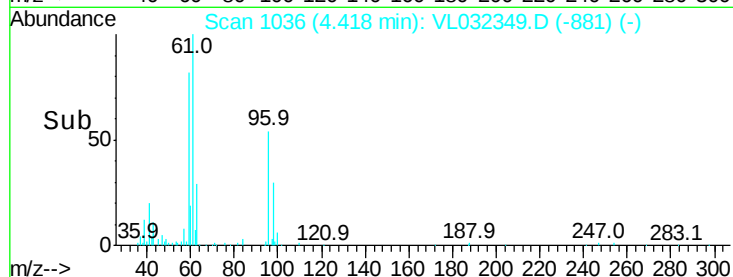
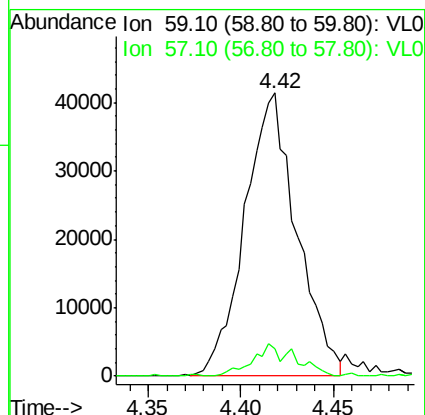
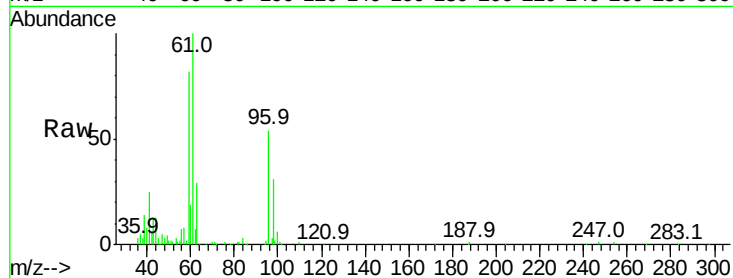




#17
 tert-Butyl alcohol
 Concen: 1.102 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

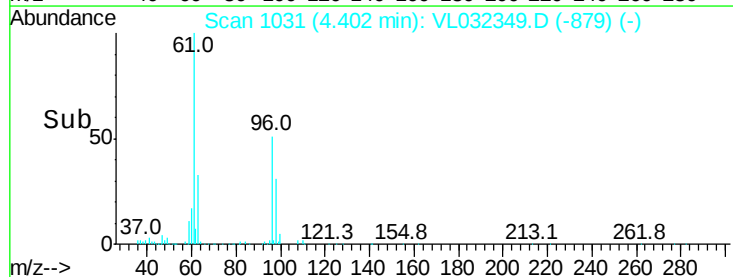
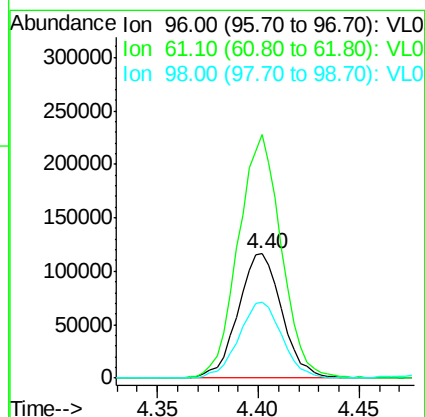
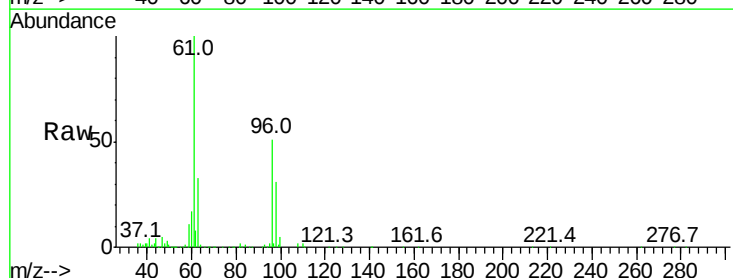
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

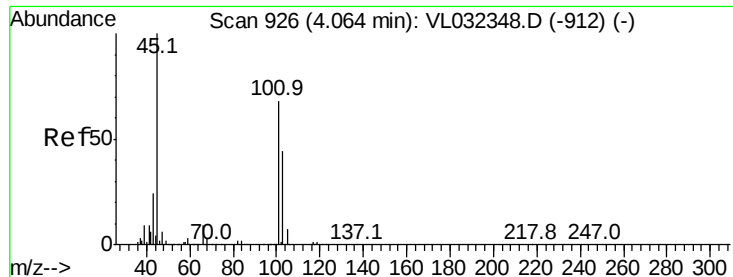
Tgt Ion: 59 Resp: 81049
 Ion Ratio Lower Upper
 59 100
 57 9.5 8.0 12.0



#18
 1,1-Dichloroethene
 Concen: 1.968 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion: 96 Resp: 176431
 Ion Ratio Lower Upper
 96 100
 61 195.1 159.0 238.4
 98 60.8 51.1 76.7





#19

Isopropyl Alcohol

Concen: 2.080 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

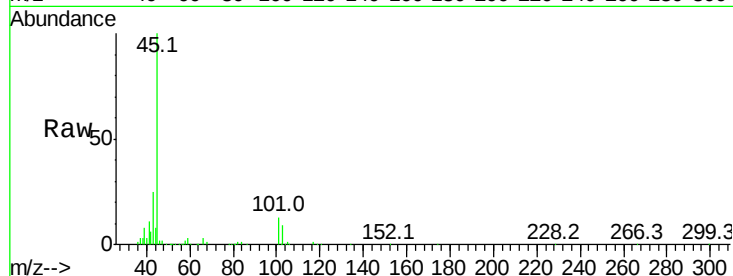
VSTDIC002

Tgt Ion: 45 Resp: 321301

Ion Ratio Lower Upper

45 100

58 2.7 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.07

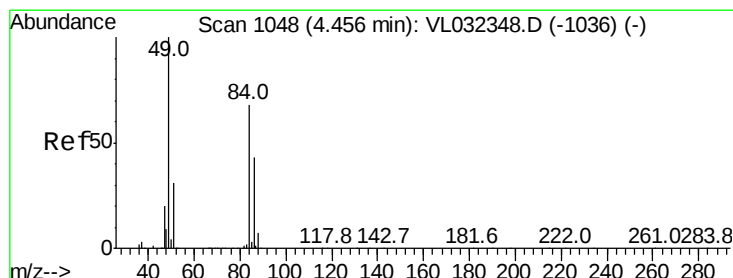
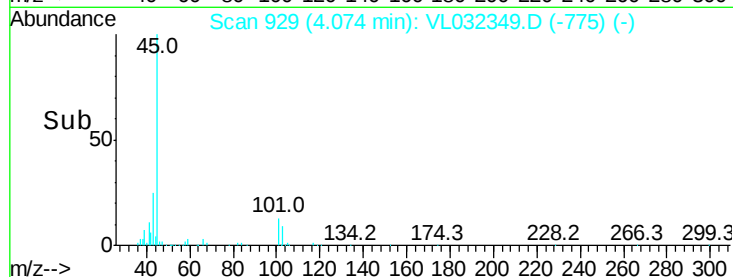
150000

100000

50000

0

Time--> 4.00 4.05 4.10 4.15



#20

Methylene Chloride

Concen: 1.899 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion: 84 Resp: 176693

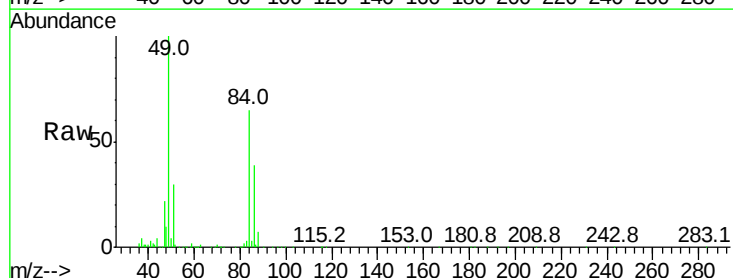
Ion Ratio Lower Upper

84 100

49 152.6 123.4 185.0

51 45.1 38.2 57.2

86 59.1 47.4 71.2



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

250000

200000

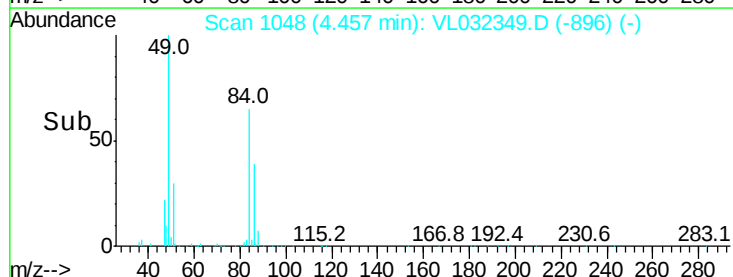
150000

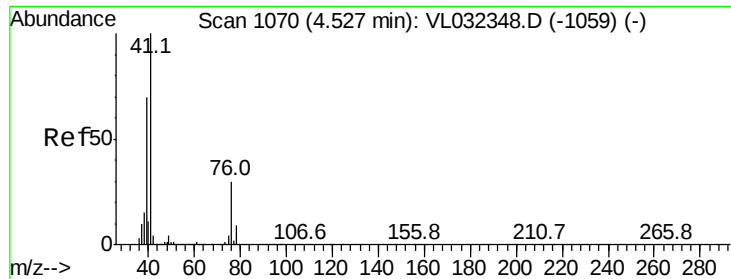
100000

50000

0

Time--> 4.40 4.45 4.50





#21

Allyl Chloride

Concen: 1.904 ppbv

RT: 4.52 min Scan# 1069

Delta R.T. -0.02 min

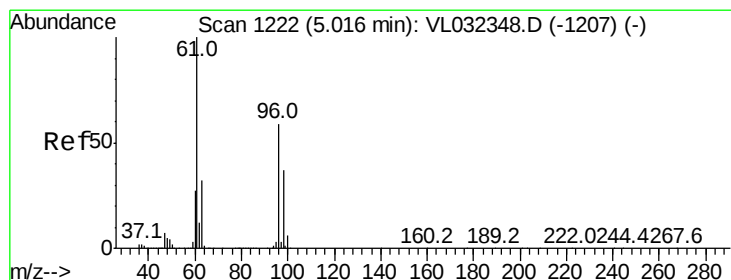
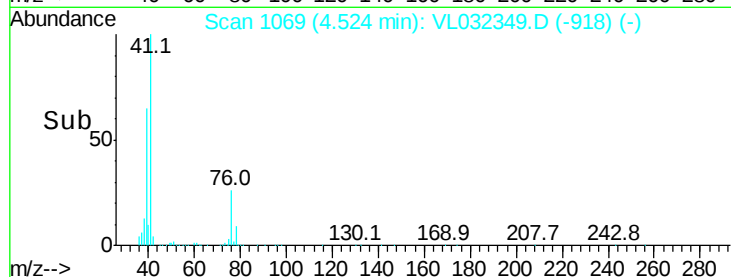
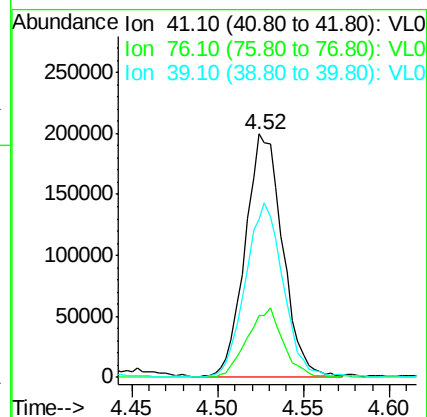
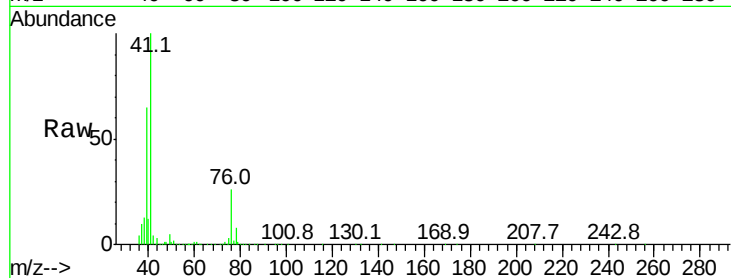
Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 41 Resp: 300721

Ion	Ratio	Lower	Upper
41	100		
76	27.7	23.1	34.7
39	72.2	58.2	87.2



#22

trans-1,2-Dichloroethene

Concen: 2.099 ppbv

RT: 5.01 min Scan# 1221

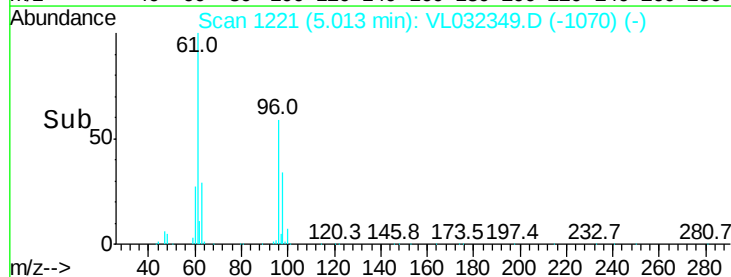
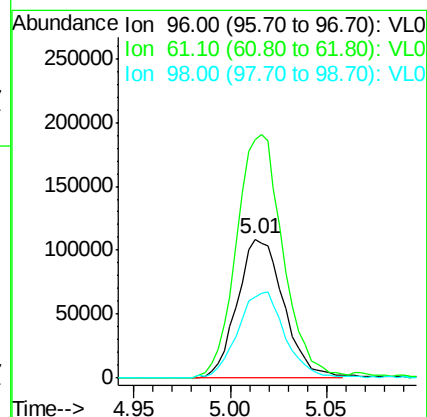
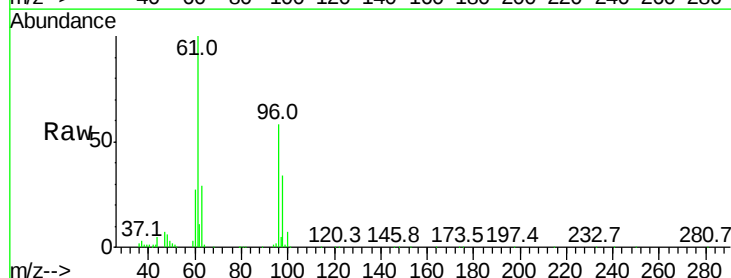
Delta R.T. -0.02 min

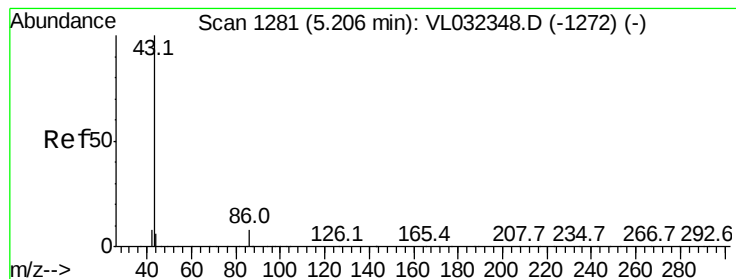
Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion: 96 Resp: 181451

Ion	Ratio	Lower	Upper
96	100		
61	170.9	136.5	204.7
98	57.5	51.3	76.9





#23

Vinyl Acetate

Concen: 1.994 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 827894

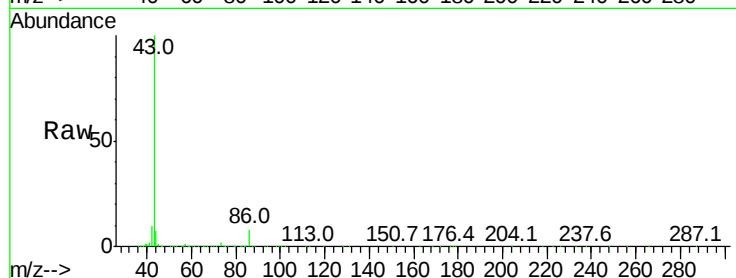
Ion Ratio Lower Upper

43 100

86 7.6 6.3 9.5

42 9.7 7.0 10.4

44 5.8 4.6 7.0

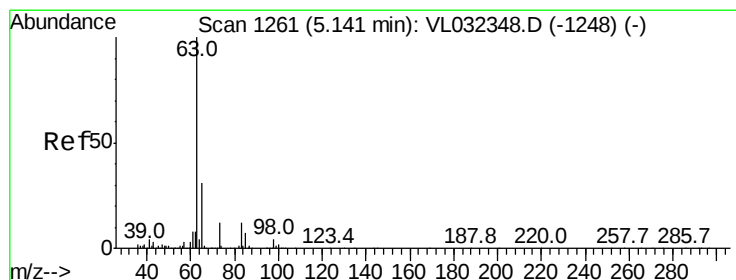
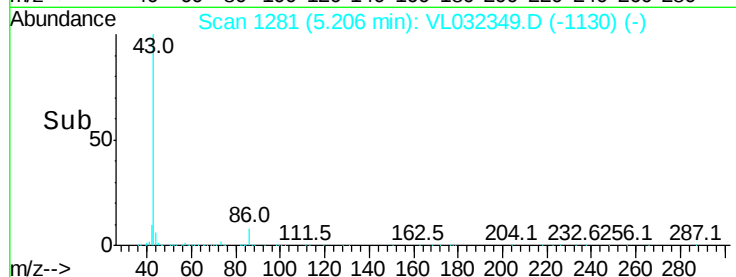
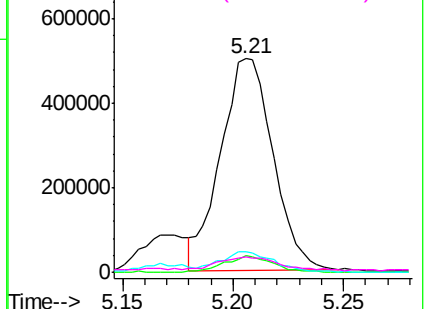


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 2.104 ppbv

RT: 5.14 min Scan# 1261

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

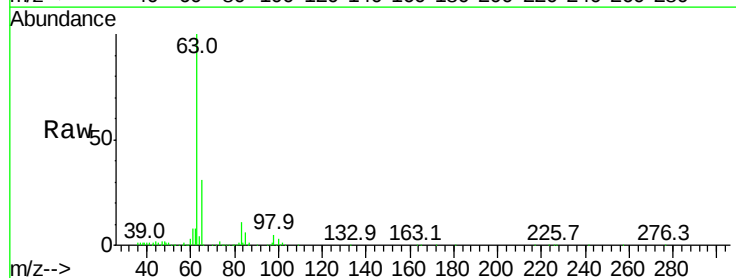
Tgt Ion: 63 Resp: 626720

Ion Ratio Lower Upper

63 100

98 5.0 2.1 6.5

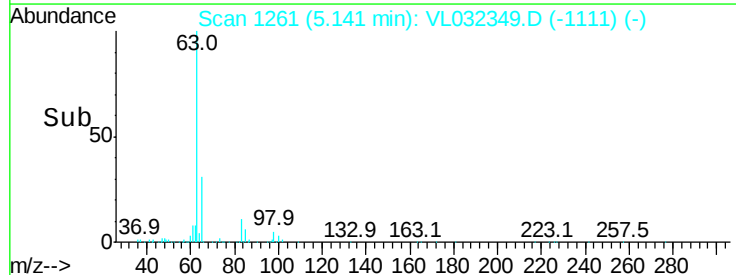
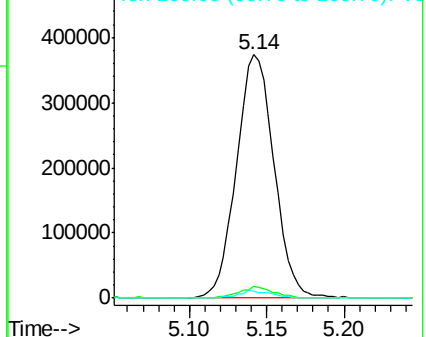
100 2.8 1.3 3.8

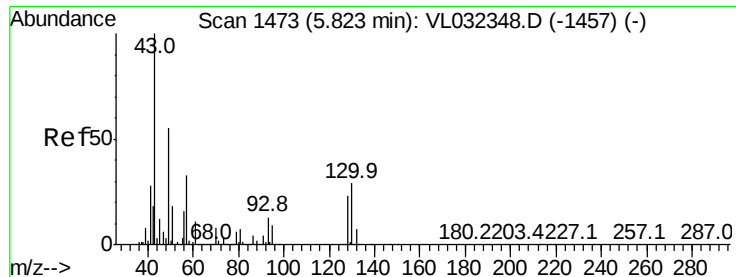


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



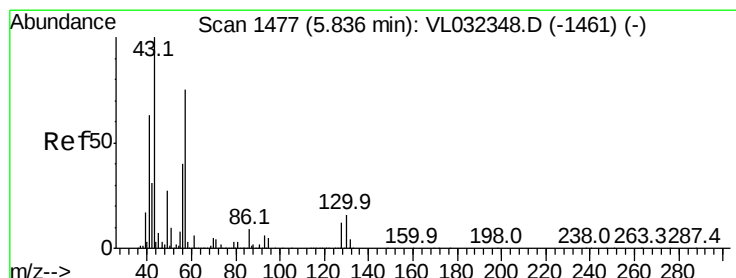
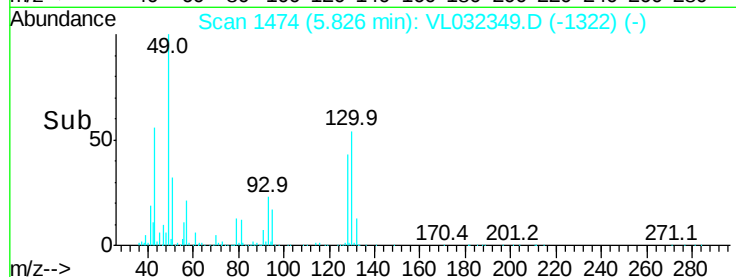
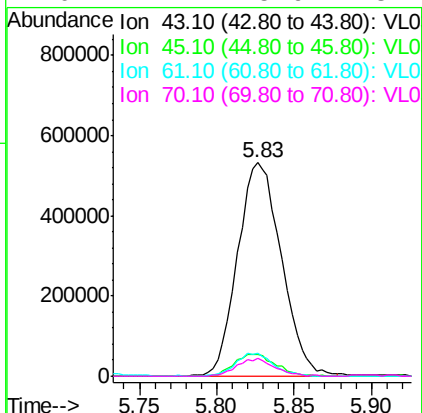
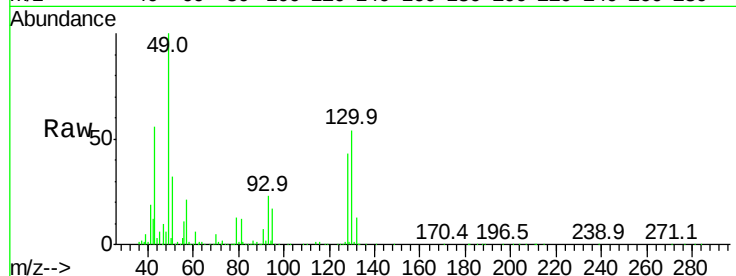


#25
Ethyl Acetate
Concen: 2.014 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 1046426

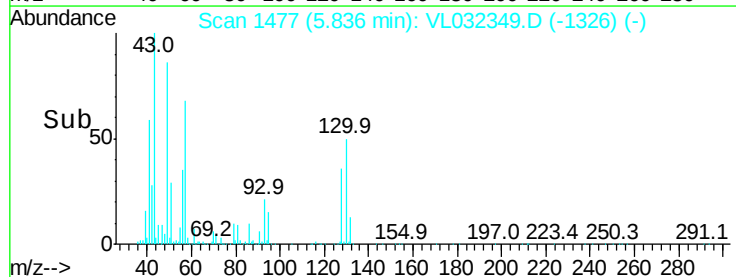
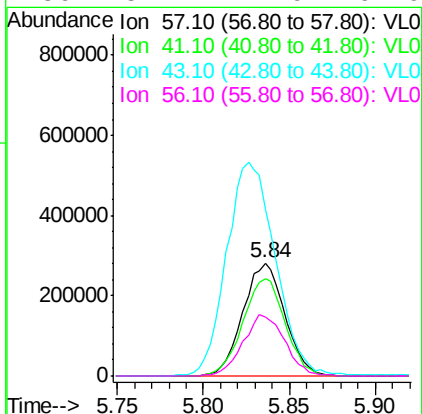
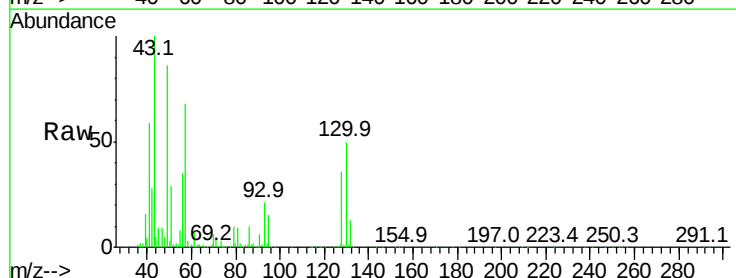
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.1	12.1
61	9.9	7.4	11.0
70	7.2	5.6	8.4

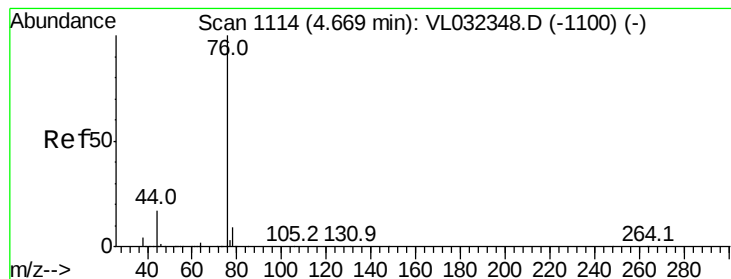


#26
Hexane
Concen: 2.019 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion: 57 Resp: 474633

Ion	Ratio	Lower	Upper
57	100		
41	86.9	68.1	102.1
43	221.2	177.4	266.2
56	54.7	41.9	62.9





#27

Carbon Disulfide

Concen: 1.917 ppbv

RT: 4.67 min Scan# 1115

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

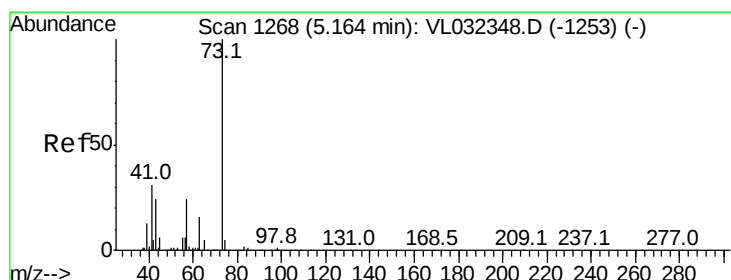
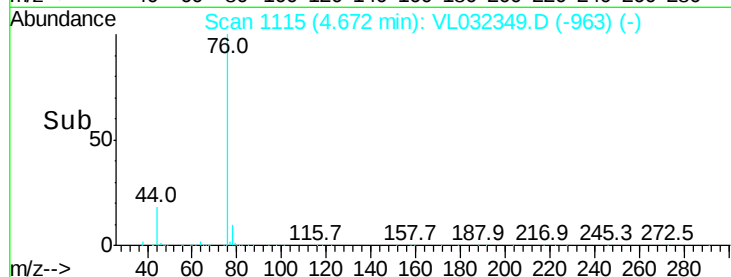
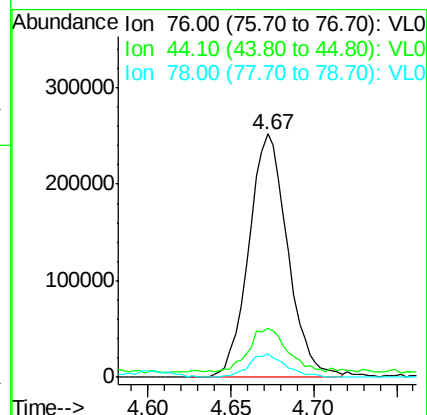
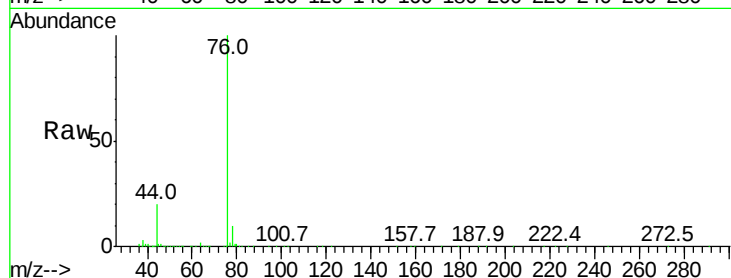
Tgt Ion: 76 Resp: 409736

Ion Ratio Lower Upper

76 100

44 20.7 14.0 21.0

78 9.7 7.5 11.3



#28

Methyl tert-Butyl Ether

Concen: 2.040 ppbv

RT: 5.17 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL032349.D

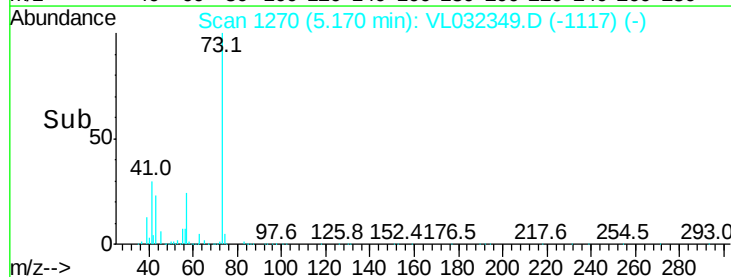
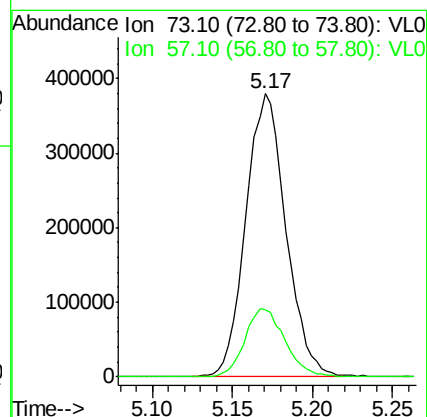
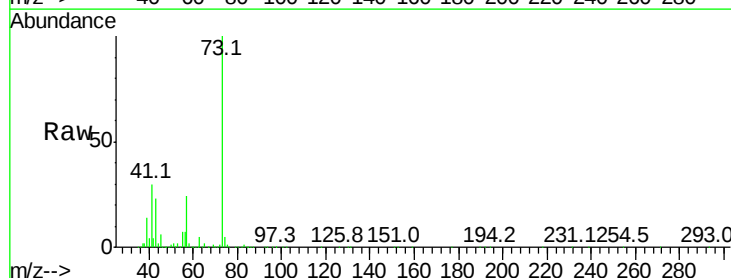
Acq: 15 Aug 2018 10:38

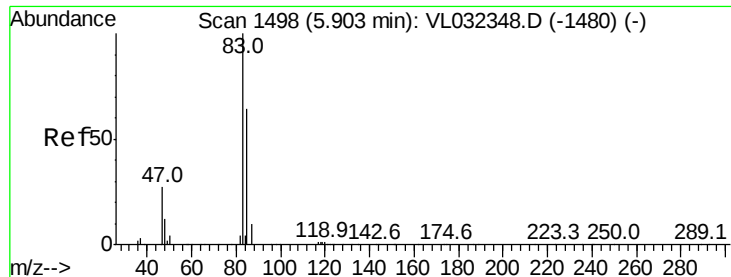
Tgt Ion: 73 Resp: 648713

Ion Ratio Lower Upper

73 100

57 24.1 19.4 29.0





#29

Chloroform

Concen: 1.862 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

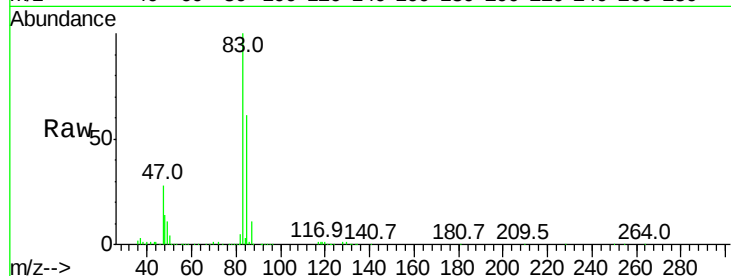
VSTDIC002

Tgt Ion: 83 Resp: 636807

Ion Ratio Lower Upper

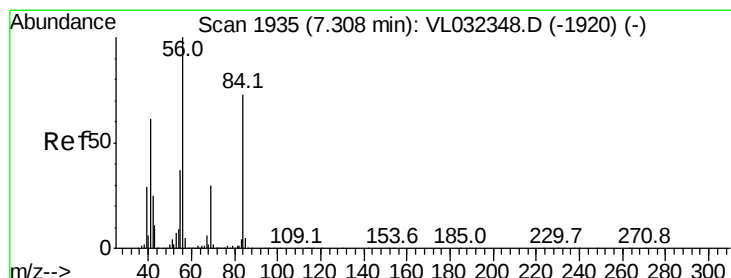
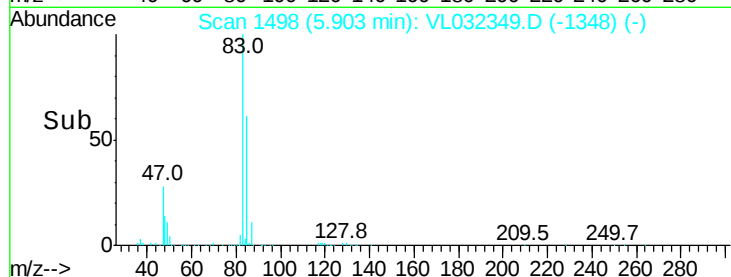
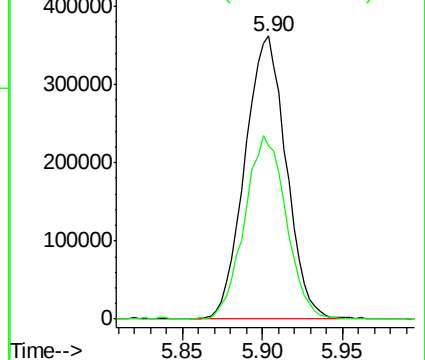
83 100

85 61.1 52.9 79.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 1.826 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

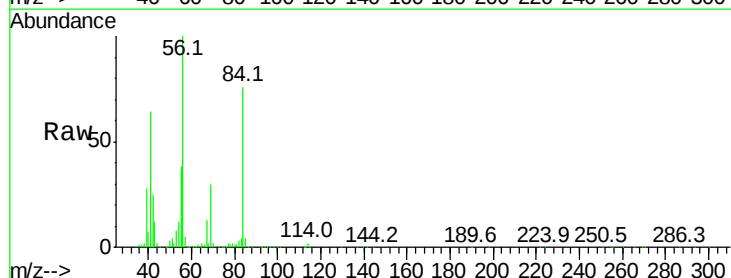
Tgt Ion: 84 Resp: 334981

Ion Ratio Lower Upper

84 100

56 173.8 116.8 175.2

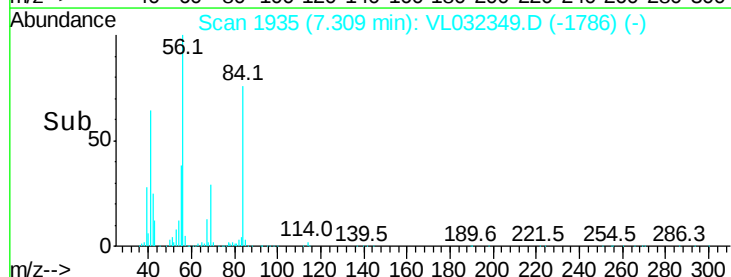
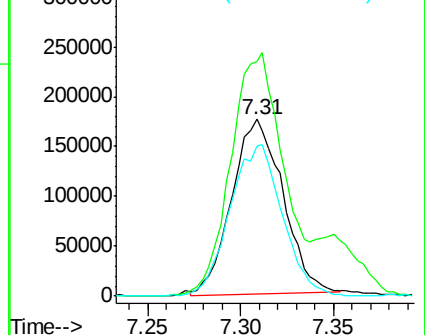
41 89.6 70.0 105.0

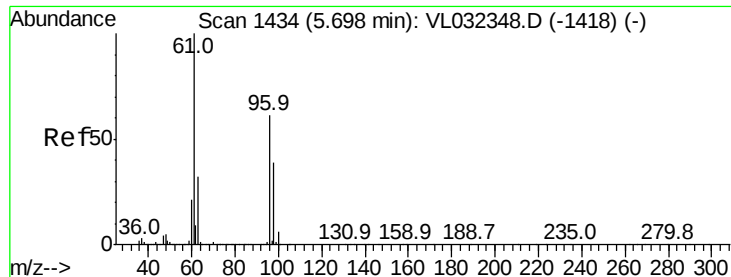


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 2.043 ppbv

RT: 5.70 min Scan# 1434

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

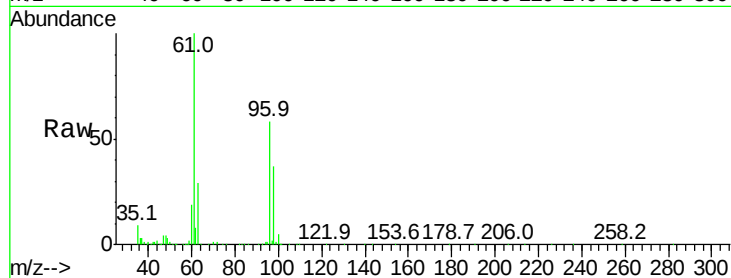
Tgt Ion: 61 Resp: 445194

Ion Ratio Lower Upper

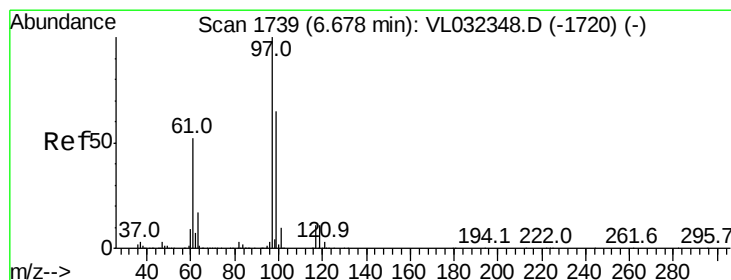
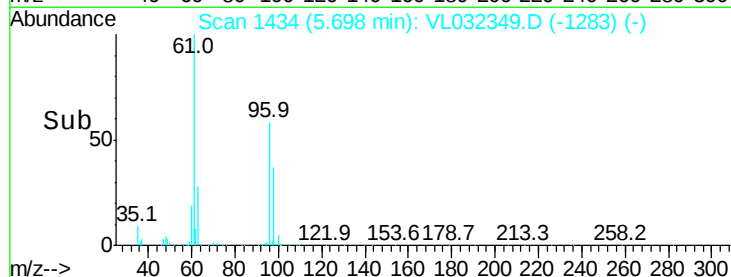
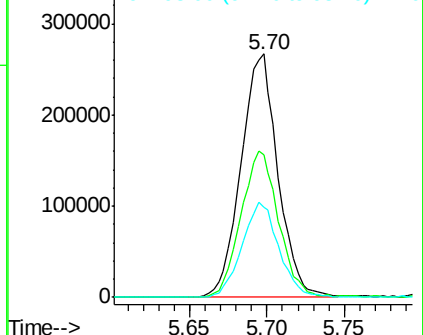
61 100

96 58.4 49.8 74.6

98 37.1 31.8 47.6



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: 2.073 ppbv

RT: 6.68 min Scan# 1739

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

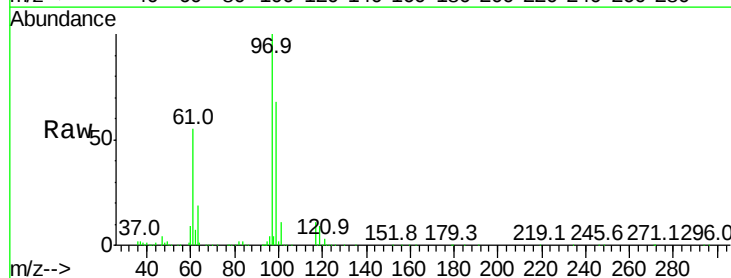
Tgt Ion: 97 Resp: 627443

Ion Ratio Lower Upper

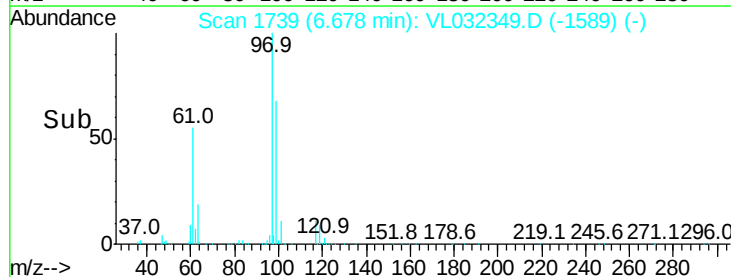
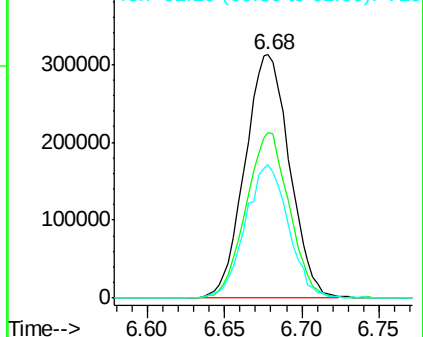
97 100

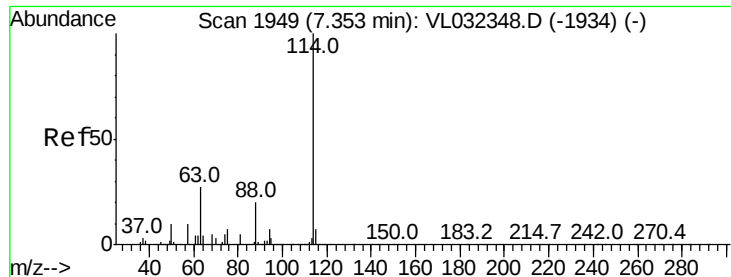
99 65.8 50.9 76.3

61 53.4 41.8 62.6



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

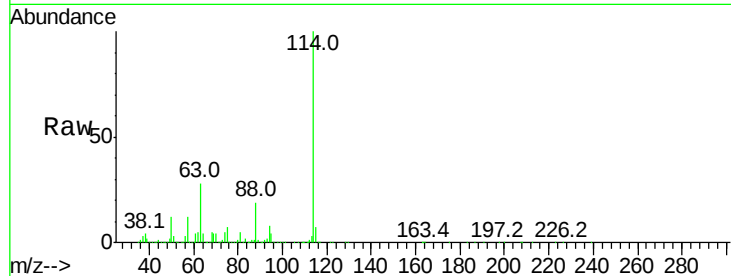




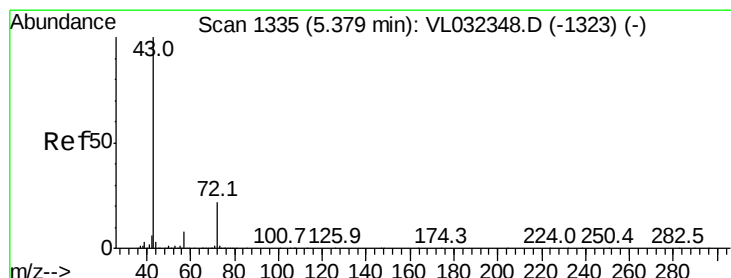
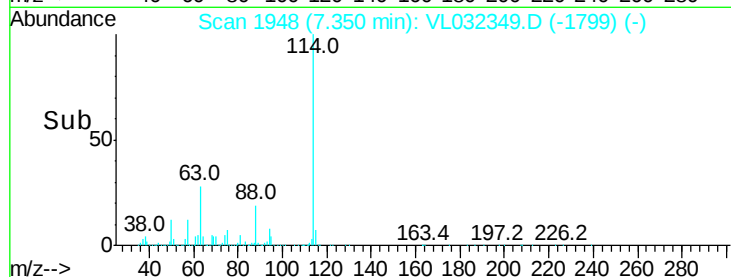
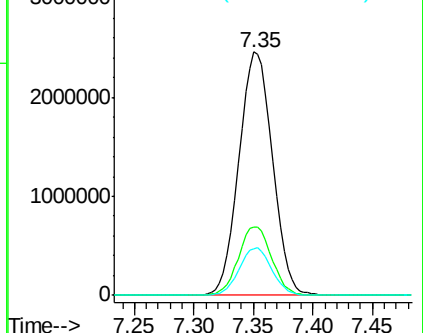
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:114 Resp: 4815985
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.4 33.6
 88 19.0 15.3 22.9

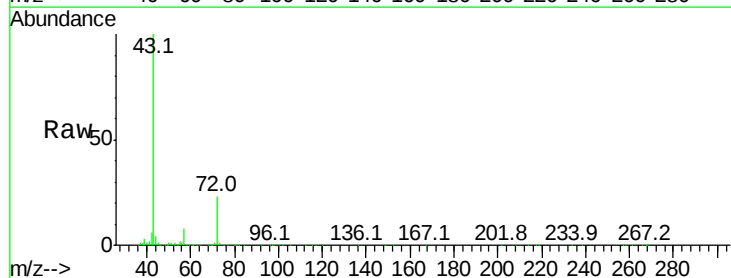


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

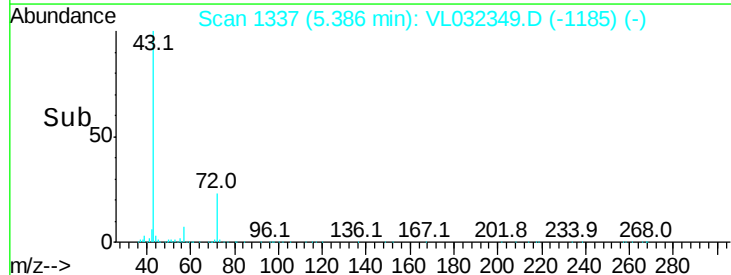
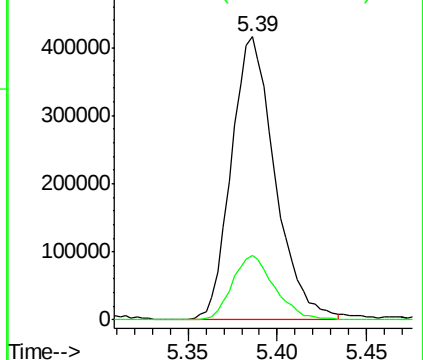


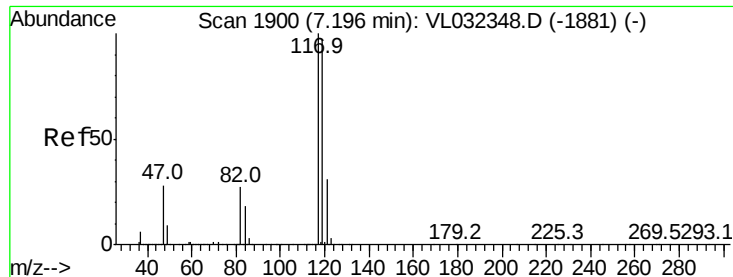
#34
 2-Butanone
 Concen: 2.263 ppbv
 RT: 5.39 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion: 43 Resp: 705304
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 2.241 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

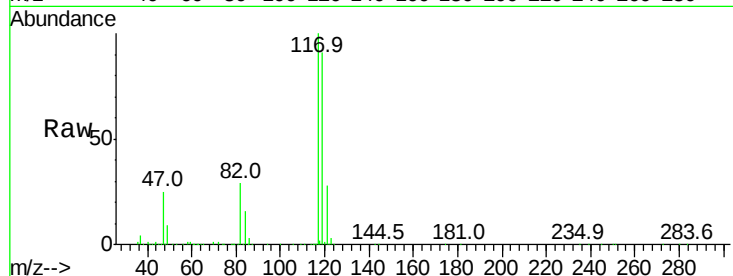
Tgt Ion: 117 Resp: 613103

Ion Ratio Lower Upper

117 100

119 90.7 76.1 114.1

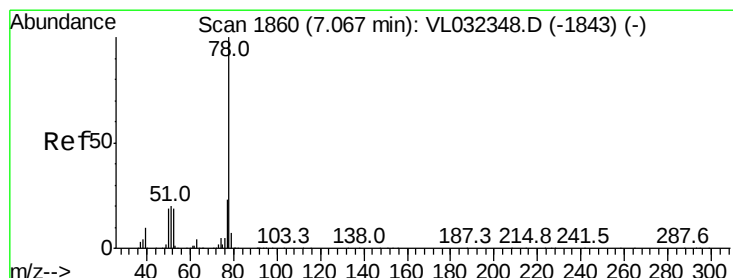
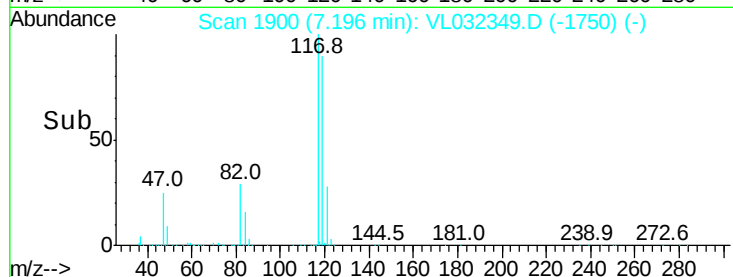
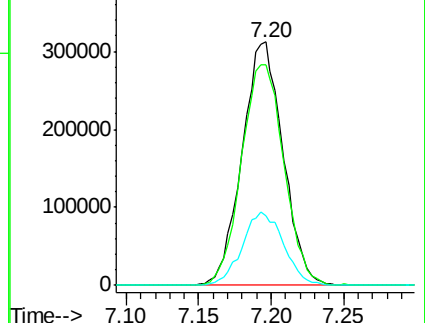
121 28.3 24.4 36.6



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: 2.049 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

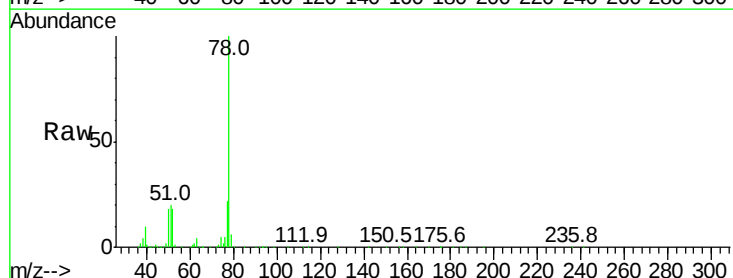
Tgt Ion: 78 Resp: 869900

Ion Ratio Lower Upper

78 100

77 22.4 18.4 27.6

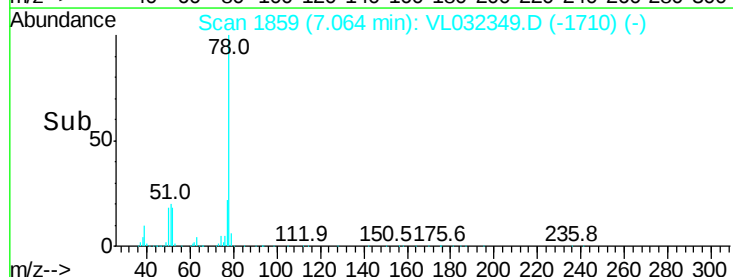
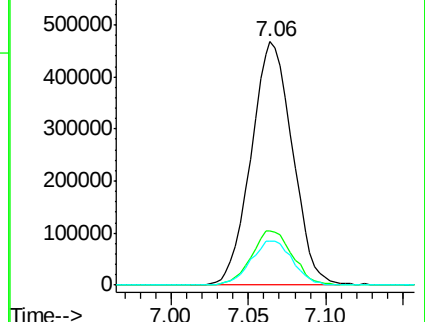
50 18.3 15.3 22.9

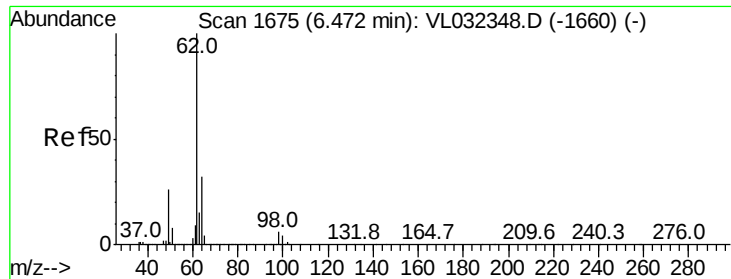


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 2.095 ppbv

RT: 6.47 min Scan# 1674

Delta R.T. -0.02 min

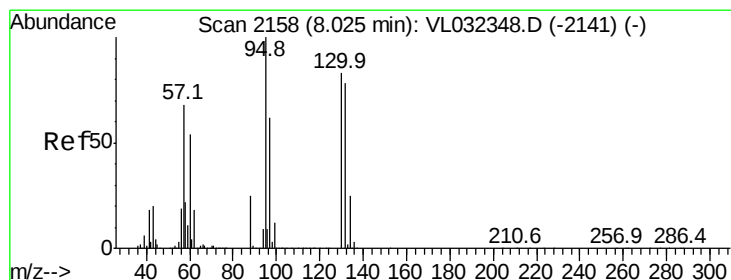
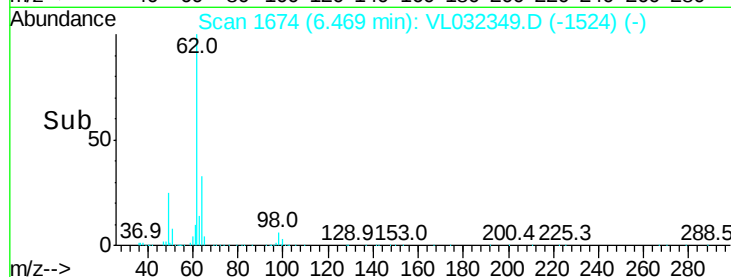
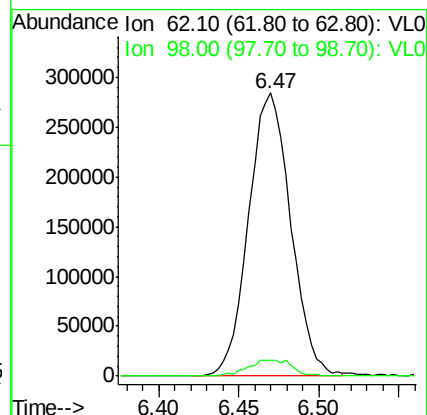
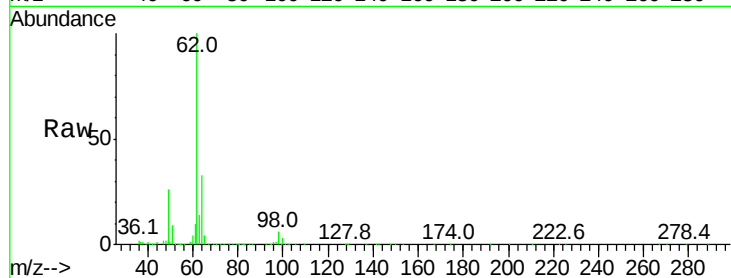
Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 62 Resp: 513839

Ion	Ratio	Lower	Upper
62	100		
98	6.1	5.1	7.7



#38

Trichloroethene

Concen: 1.851 ppbv

RT: 8.02 min Scan# 2157

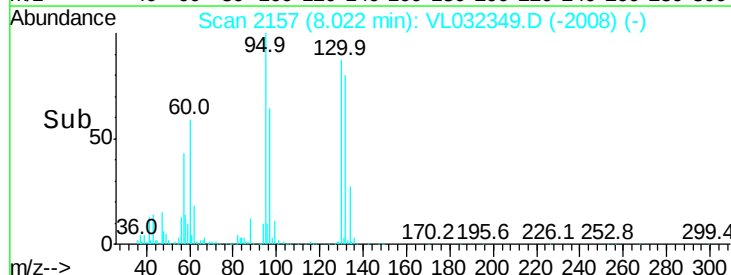
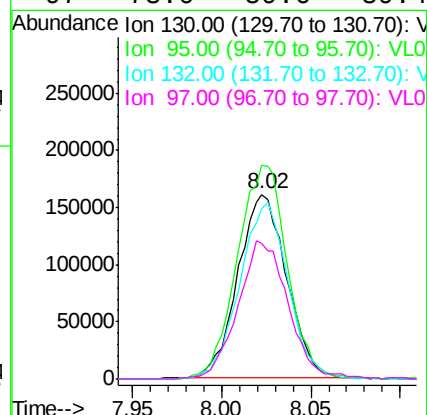
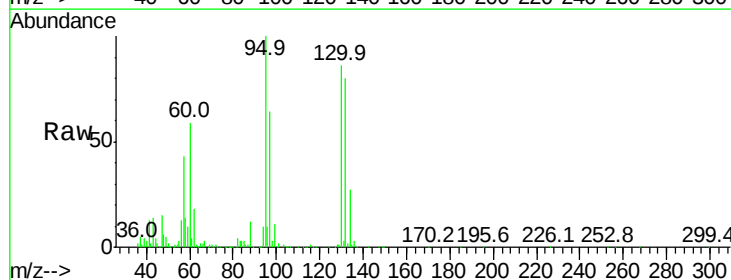
Delta R.T. -0.02 min

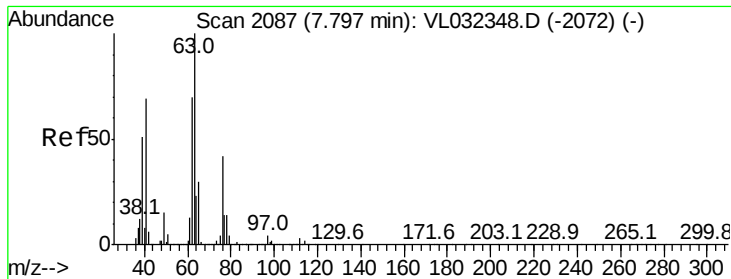
Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion: 130 Resp: 303653

Ion	Ratio	Lower	Upper
130	100		
95	114.7	92.9	139.3
132	92.4	73.0	109.4
97	73.0	59.6	89.4

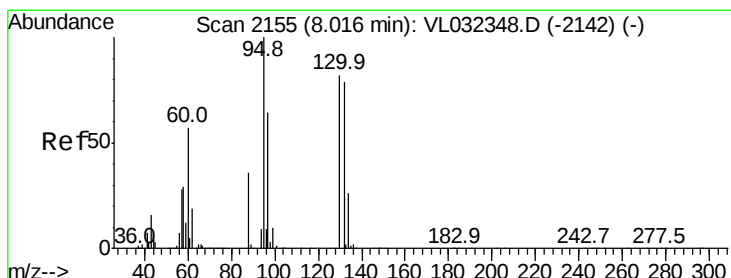
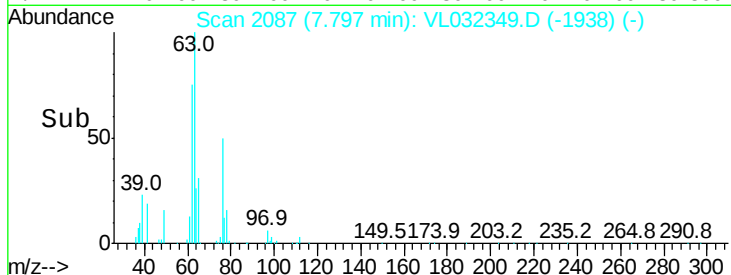
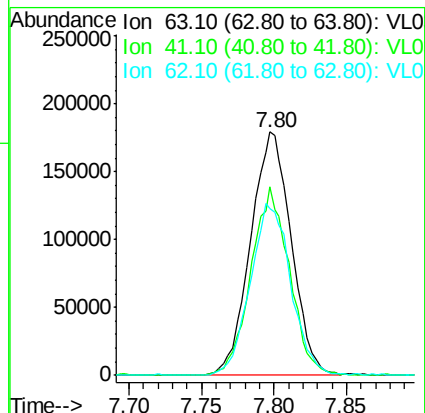
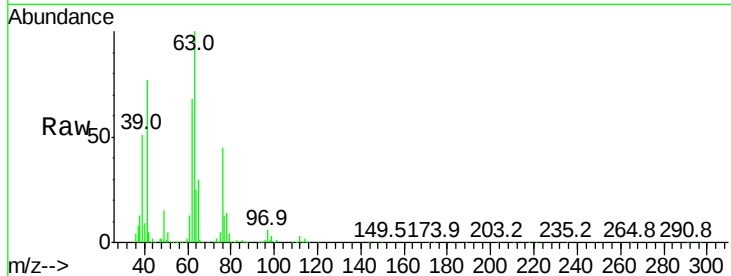




#39
 1,2-Dichloropropane
 Concen: 1.636 ppbv
 RT: 7.80 min Scan# 2087
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

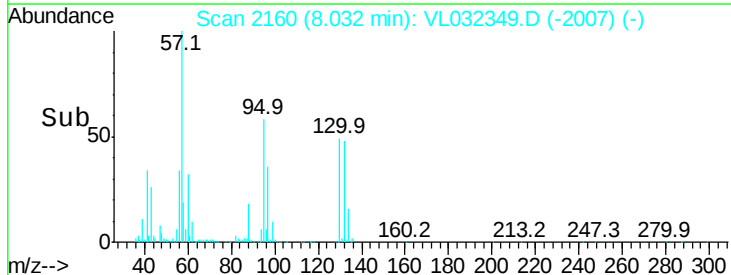
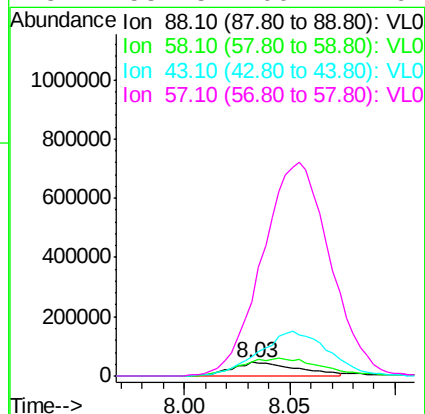
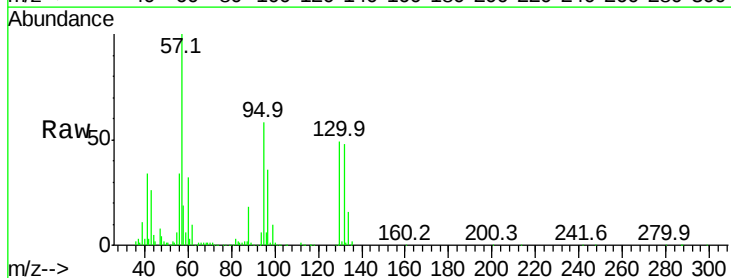
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

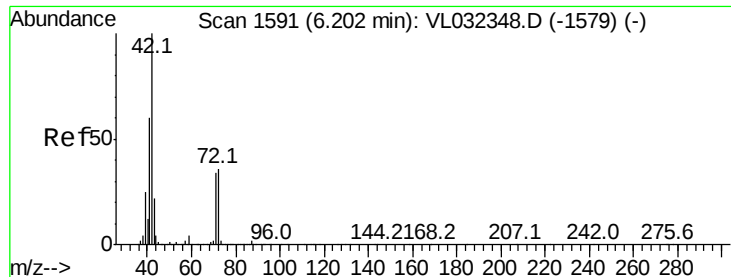
Tgt Ion	Ratio	Lower	Upper
63	100		
41	77.3	52.5	78.7
62	68.4	54.6	81.8



#40
 1,4-Dioxane
 Concen: 1.627 ppbv
 RT: 8.03 min Scan# 2160
 Delta R.T. -0.01 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
88	100		
58	164.2	120.5	180.7
43	339.8	246.2	369.2
57	1587.3	1097.4	1646.2





#41

Tetrahydrofuran

Concen: 2.173 ppbv

RT: 6.22 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

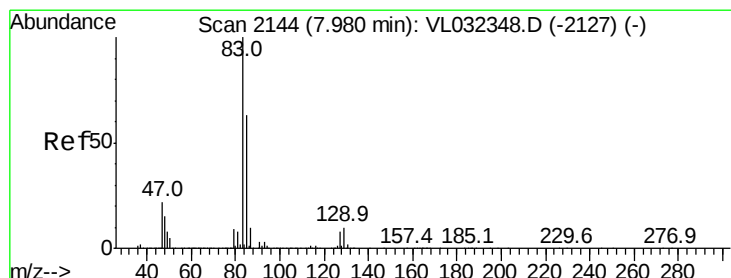
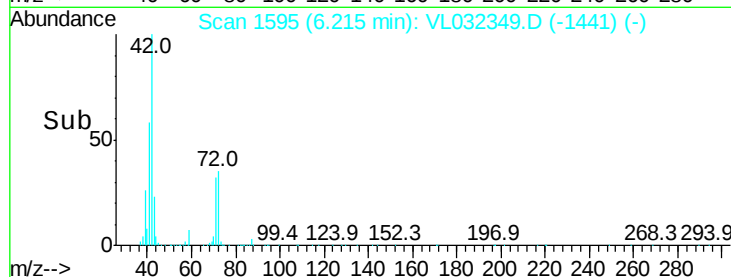
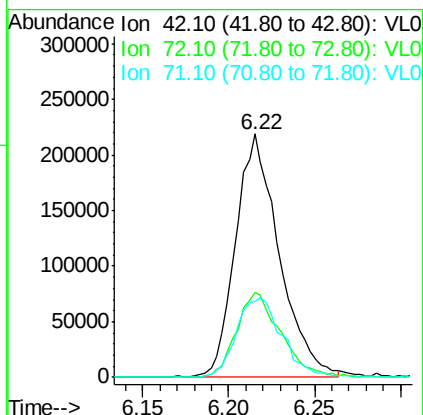
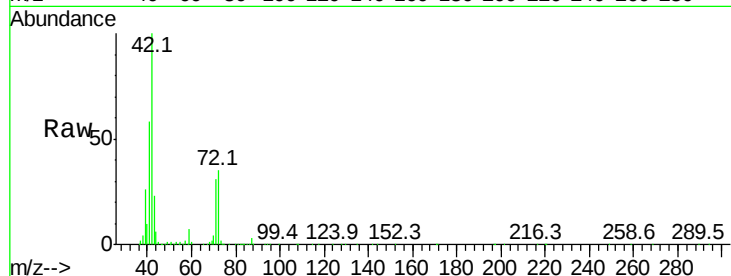
Tgt Ion: 42 Resp: 383232

Ion Ratio Lower Upper

42 100

72 35.9 28.6 42.8

71 34.6 27.8 41.6



#42

Bromodichloromethane

Concen: 1.700 ppbv

RT: 7.98 min Scan# 2143

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

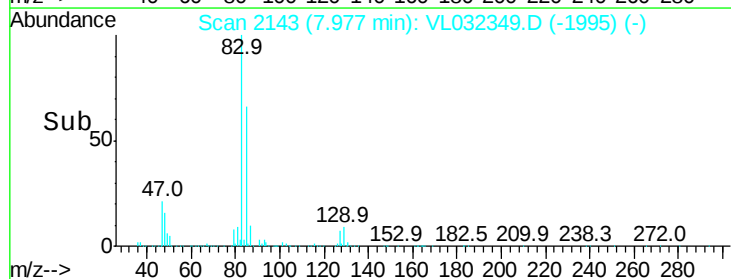
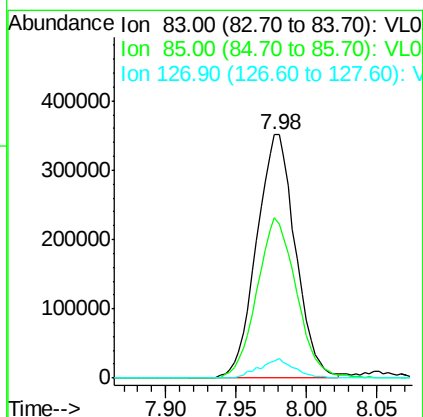
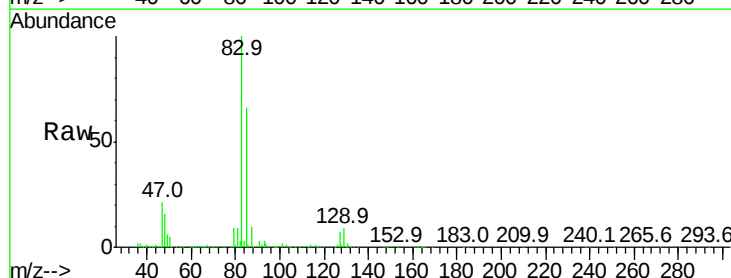
Tgt Ion: 83 Resp: 675066

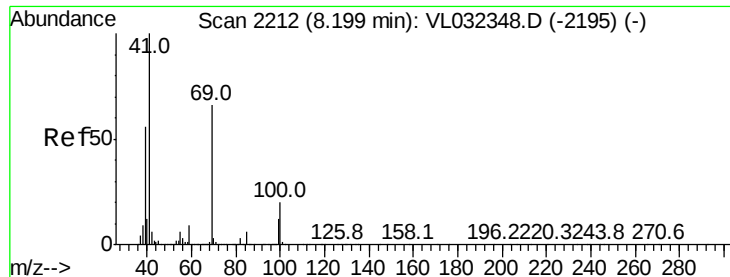
Ion Ratio Lower Upper

83 100

85 65.9 50.7 76.1

127 7.2 6.0 9.0





#43

Methyl Methacrylate

Concen: 1.693 ppbv

RT: 8.20 min Scan# 2213

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

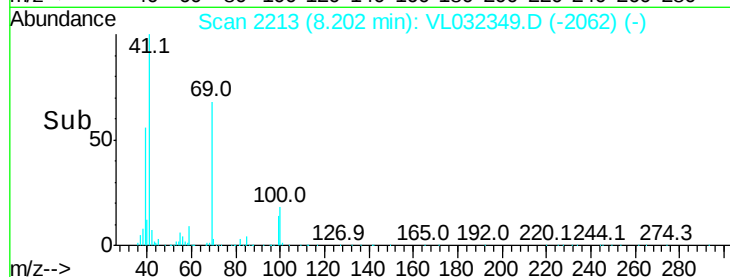
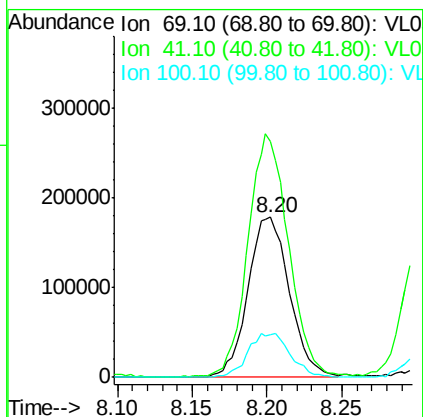
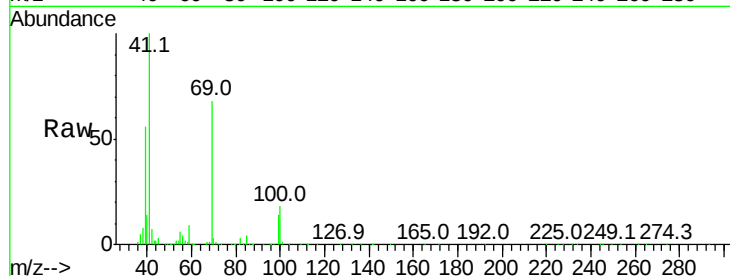
Tgt Ion: 69 Resp: 345020

Ion Ratio Lower Upper

69 100

41 148.5 120.6 180.8

100 28.2 23.2 34.8



#44

2,2,4-Trimethylpentane

Concen: 1.756 ppbv

RT: 8.05 min Scan# 2167

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

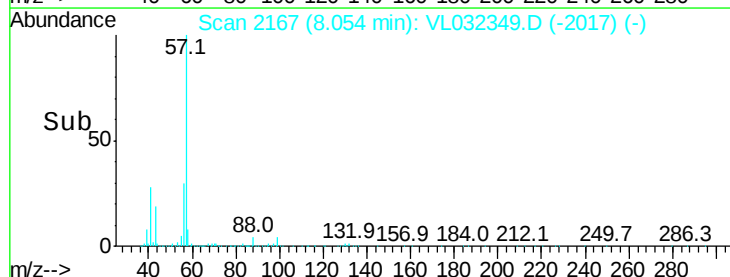
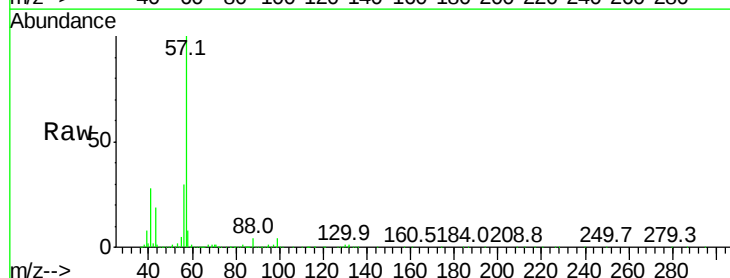
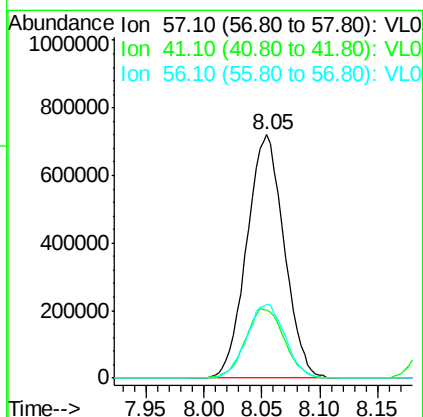
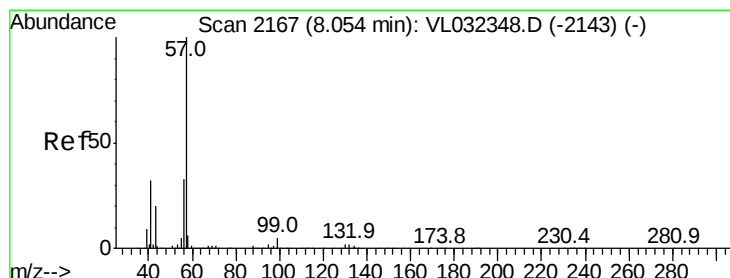
Tgt Ion: 57 Resp: 1616674

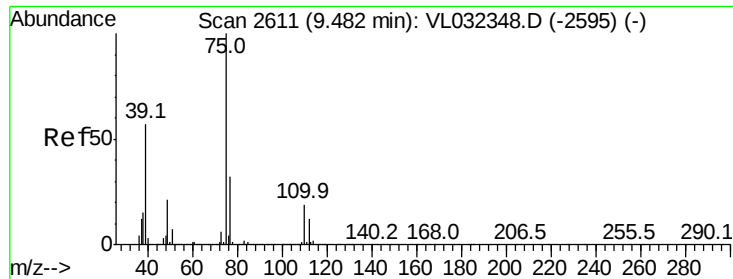
Ion Ratio Lower Upper

57 100

41 29.9 24.3 36.5

56 31.2 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 1.842 ppbv

RT: 9.48 min Scan# 2610

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

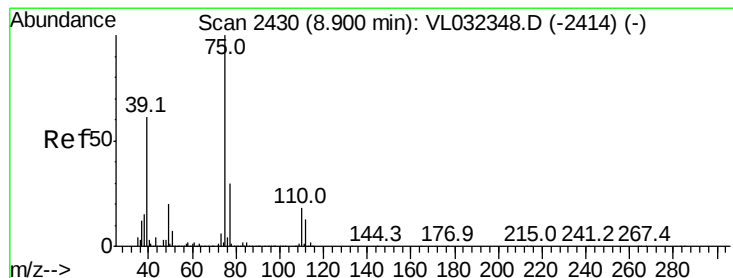
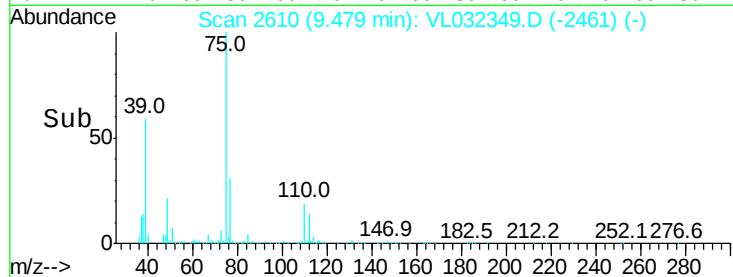
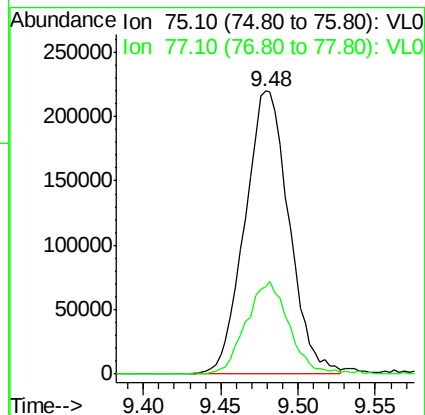
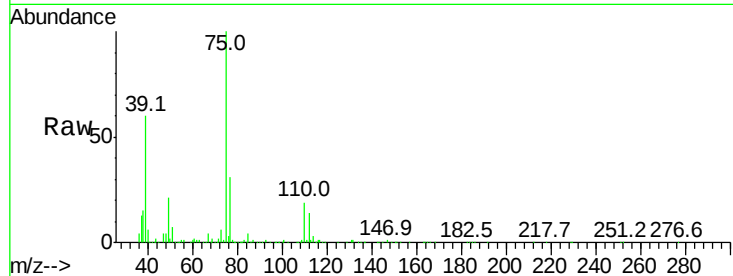
VSTDIC002

Tgt Ion: 75 Resp: 434870

Ion Ratio Lower Upper

75 100

77 30.8 26.2 39.4



#46

cis-1,3-Dichloropropene

Concen: 1.908 ppbv

RT: 8.90 min Scan# 2429

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

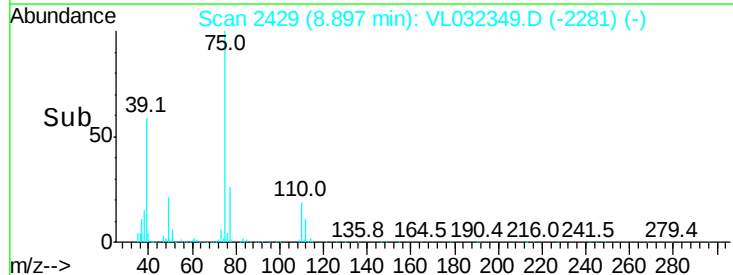
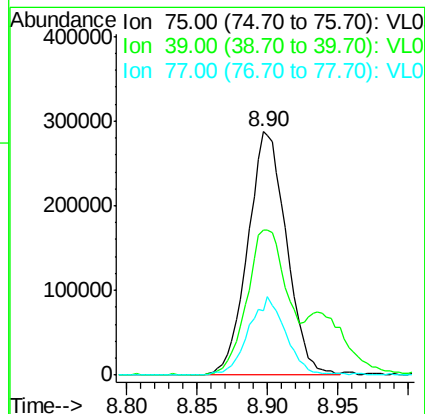
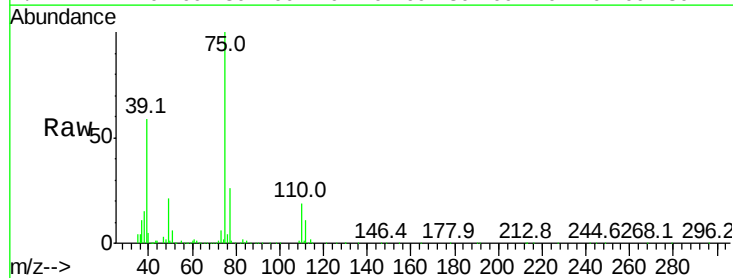
Tgt Ion: 75 Resp: 552092

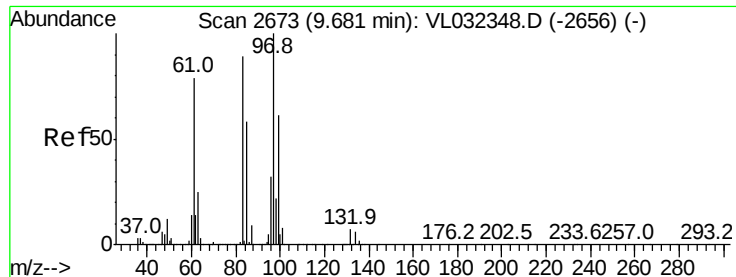
Ion Ratio Lower Upper

75 100

39 59.1 50.9 76.3

77 26.4 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 1.883 ppbv

RT: 9.68 min Scan# 2672

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 390876

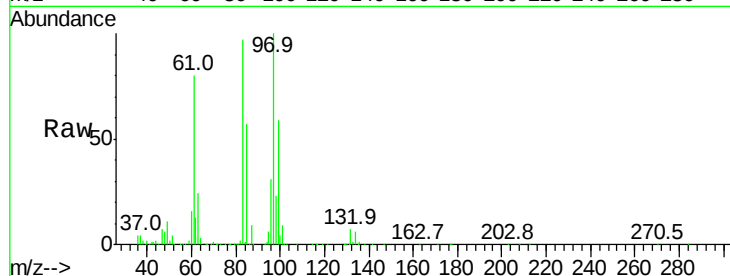
Ion Ratio Lower Upper

97 100

83 96.7 73.0 109.6

85 56.5 48.1 72.1

99 59.3 48.5 72.7

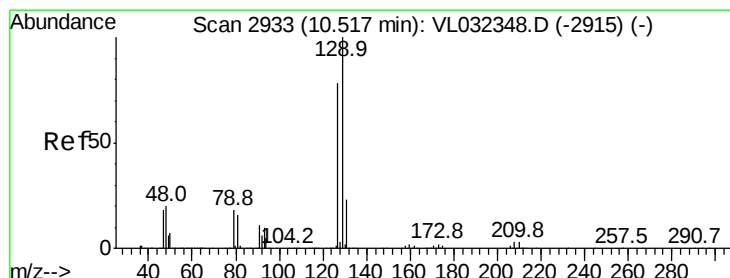
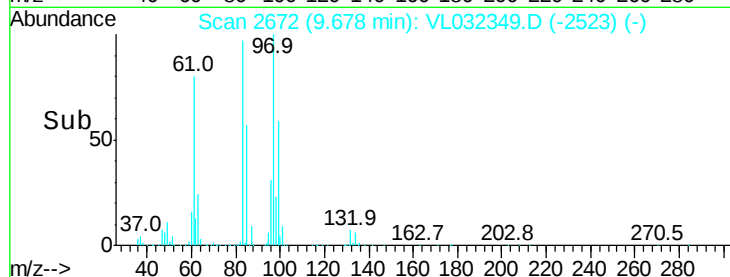
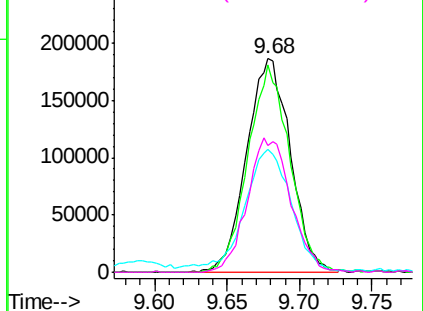


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 1.713 ppbv

RT: 10.52 min Scan# 2933

Delta R.T. -0.03 min

Lab File: VL032349.D

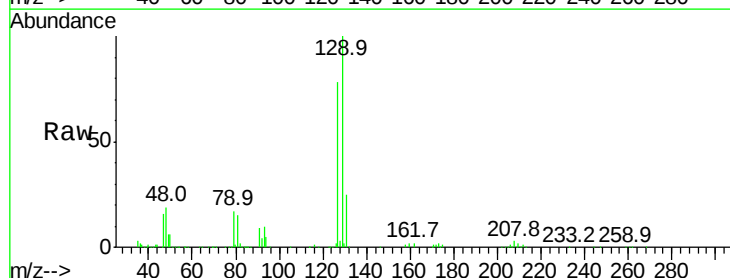
Acq: 15 Aug 2018 10:38

Tgt Ion: 129 Resp: 524347

Ion Ratio Lower Upper

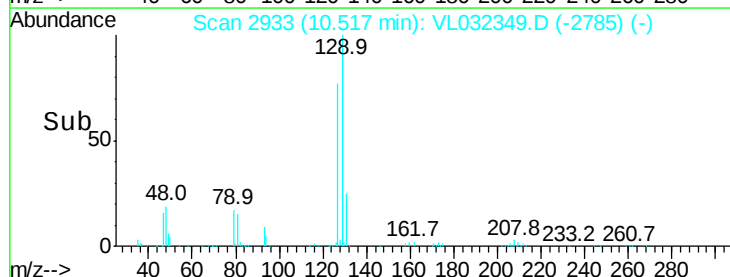
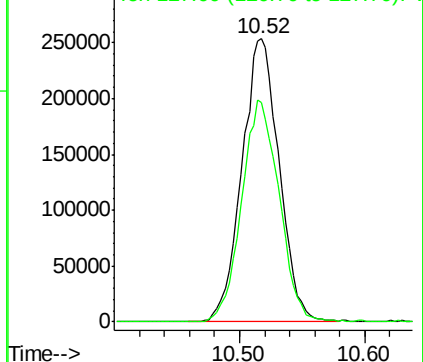
129 100

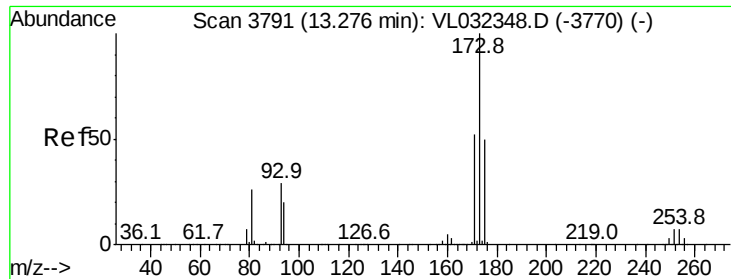
127 79.1 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 1.783 ppbv

RT: 13.27 min Scan# 3789

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

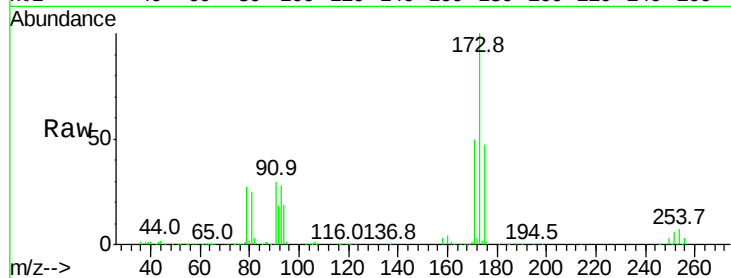
Tgt Ion:173 Resp: 449198

Ion Ratio Lower Upper

173 100

175 47.9 38.9 58.3

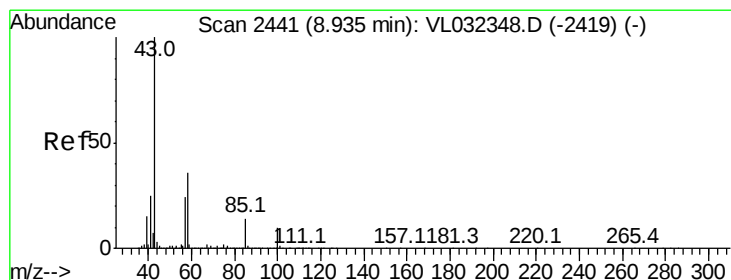
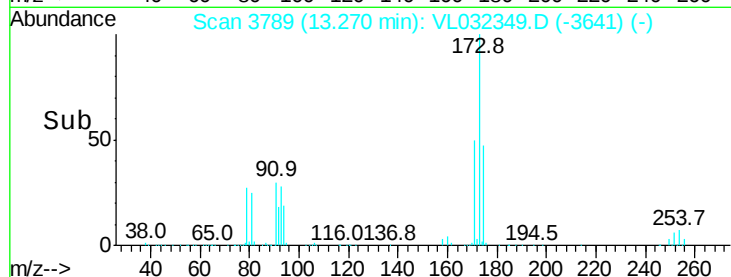
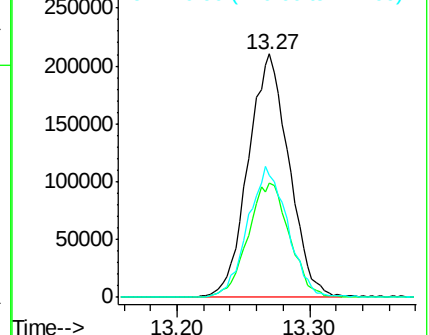
171 52.6 42.2 63.2



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: 1.922 ppbv

RT: 8.94 min Scan# 2442

Delta R.T. -0.02 min

Lab File: VL032349.D

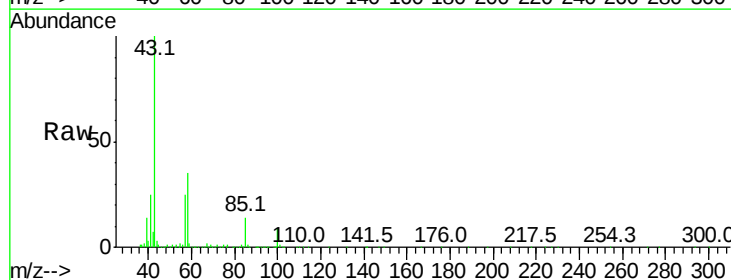
Acq: 15 Aug 2018 10:38

Tgt Ion: 43 Resp: 1057379

Ion Ratio Lower Upper

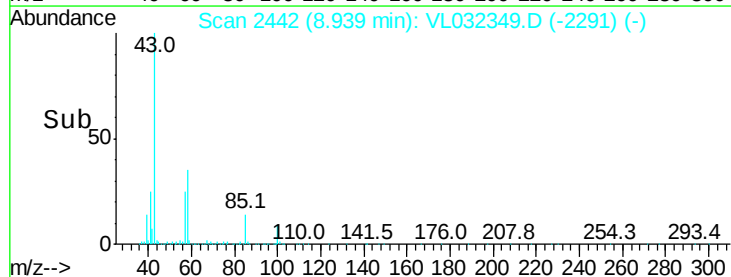
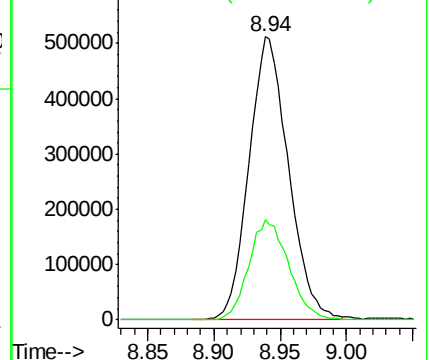
43 100

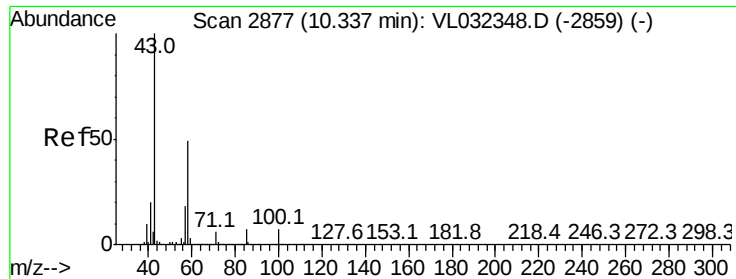
58 35.8 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

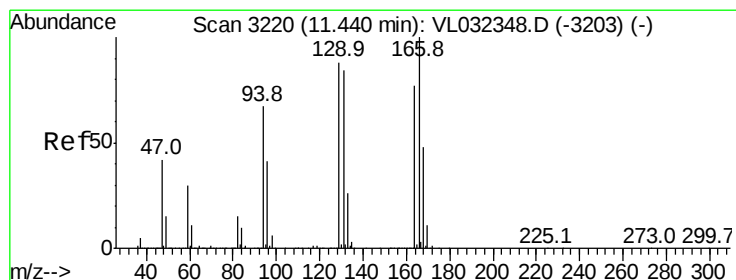
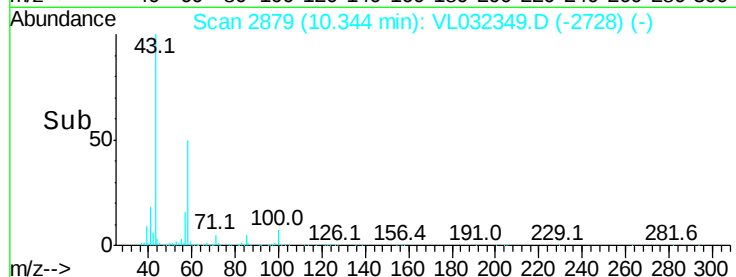
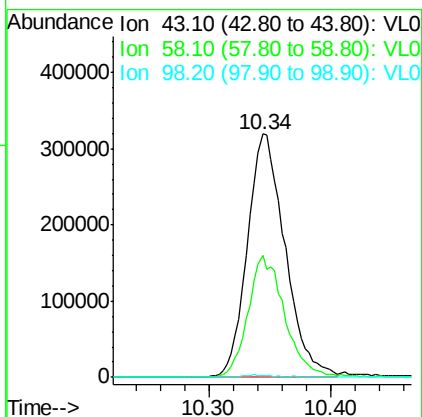
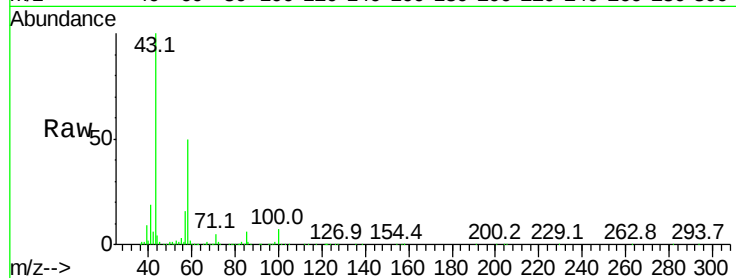




#51
2-Hexanone
Concen: 1.620 ppbv
RT: 10.34 min Scan# 2879
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

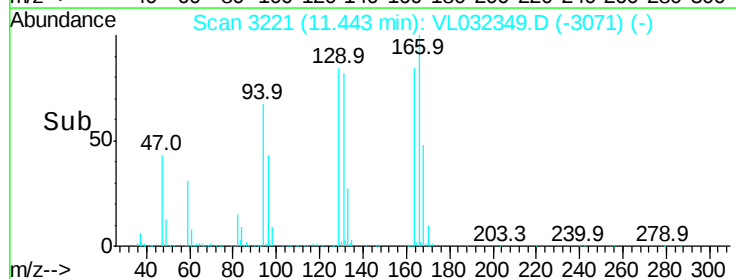
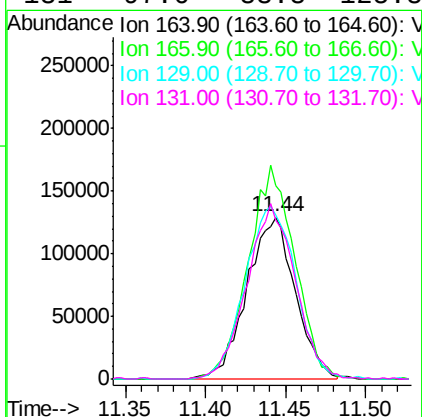
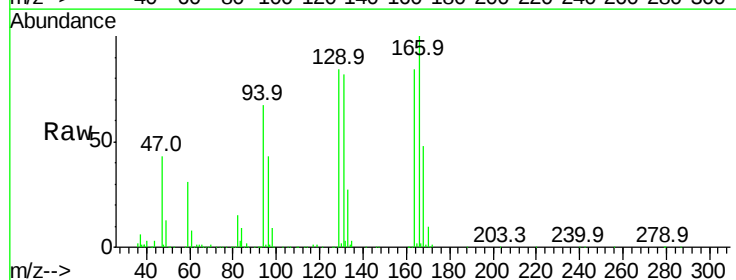
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

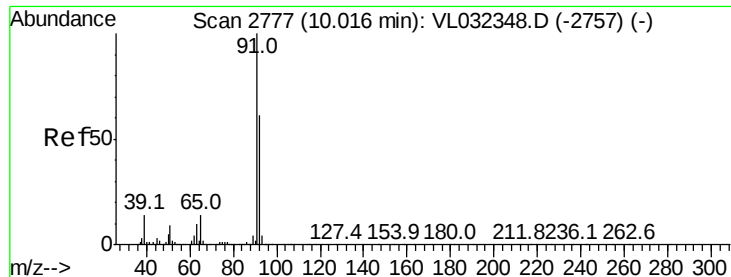
Tgt Ion: 43 Resp: 679009
Ion Ratio Lower Upper
43 100
58 49.1 39.1 58.7
98 0.8 0.3 0.5#



#52
Tetrachloroethene
Concen: 1.870 ppbv
RT: 11.44 min Scan# 3221
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion: 164 Resp: 267539
Ion Ratio Lower Upper
164 100
166 119.5 100.0 150.0
129 101.2 87.9 131.9
131 97.6 83.8 125.8





#53

Toluene

Concen: 2.001 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

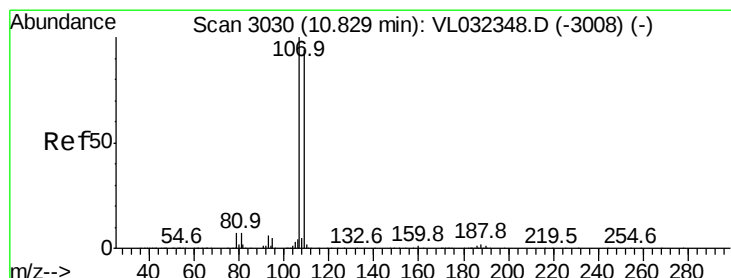
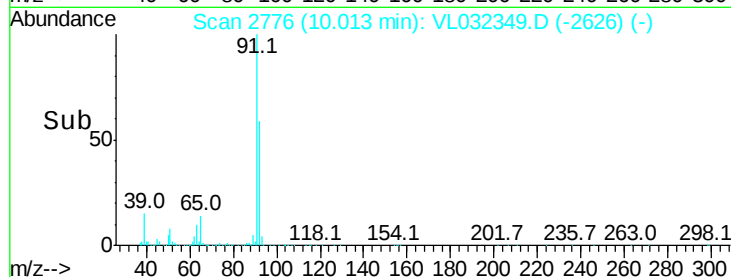
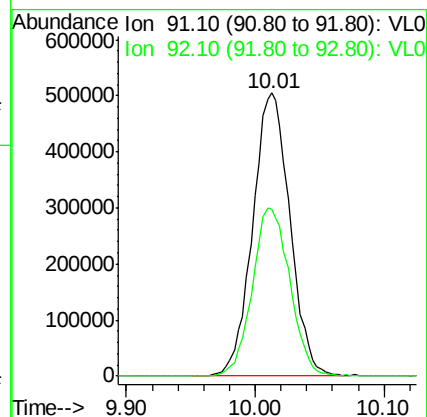
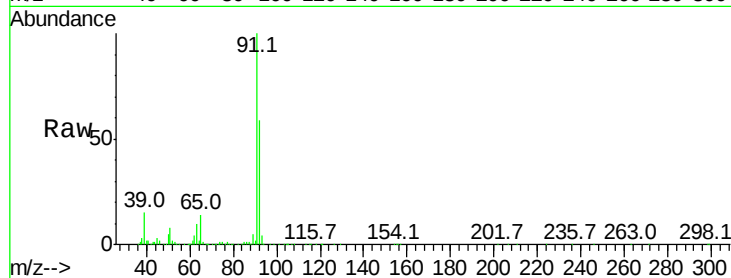
VSTDIC002

Tgt Ion: 91 Resp: 1015392

Ion Ratio Lower Upper

91 100

92 60.1 48.6 72.8



#54

1,2-Dibromoethane

Concen: 1.754 ppbv

RT: 10.82 min Scan# 3028

Delta R.T. -0.03 min

Lab File: VL032349.D

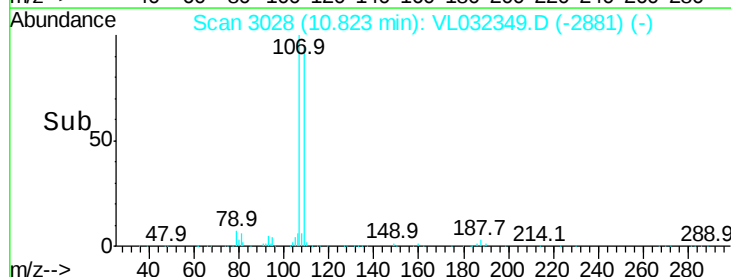
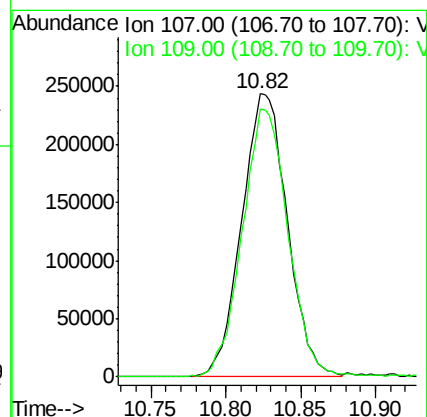
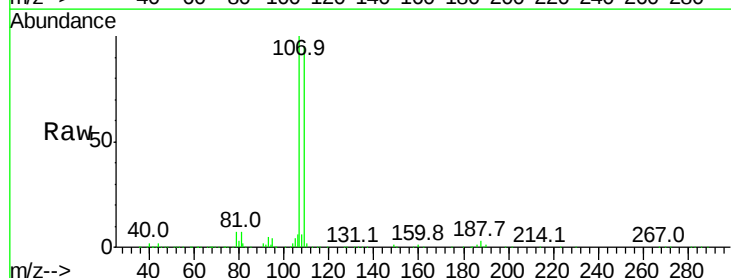
Acq: 15 Aug 2018 10:38

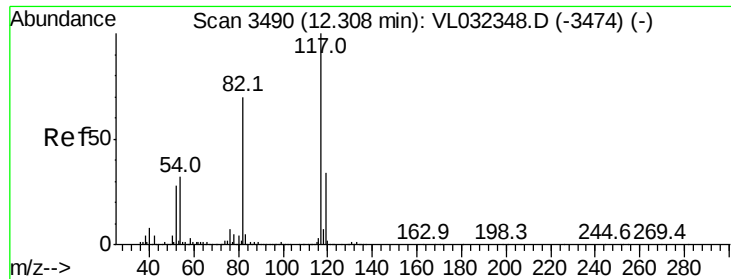
Tgt Ion: 107 Resp: 517603

Ion Ratio Lower Upper

107 100

109 94.2 74.1 111.1

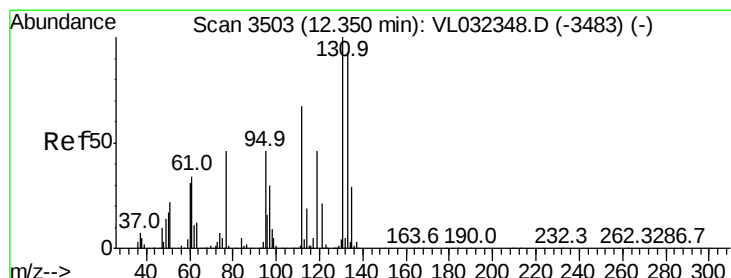
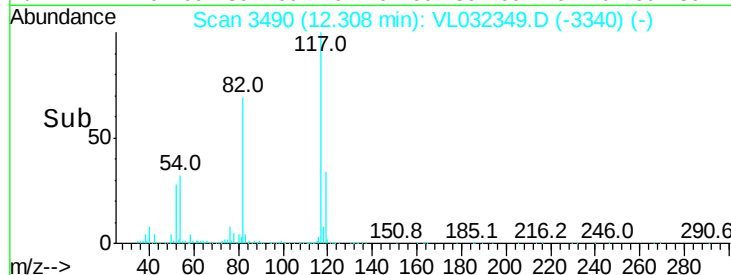
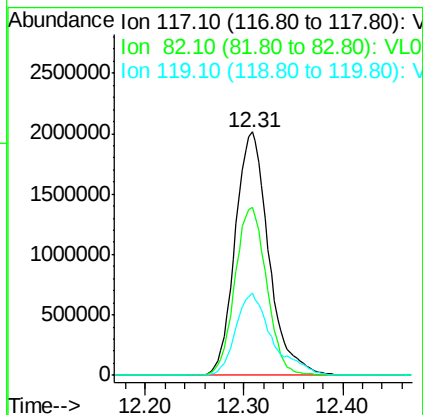
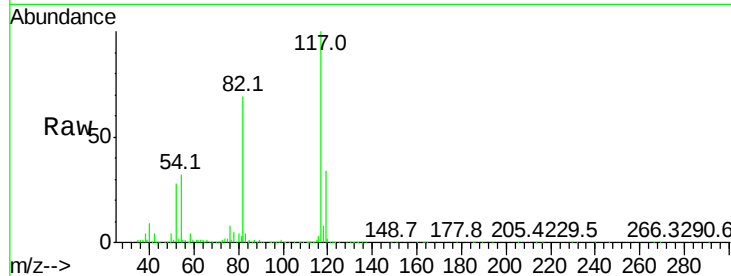




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.31 min Scan# 3490
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

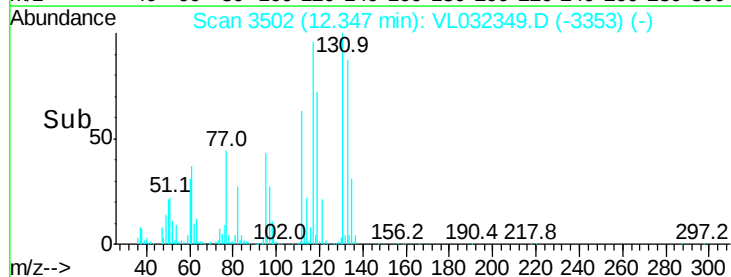
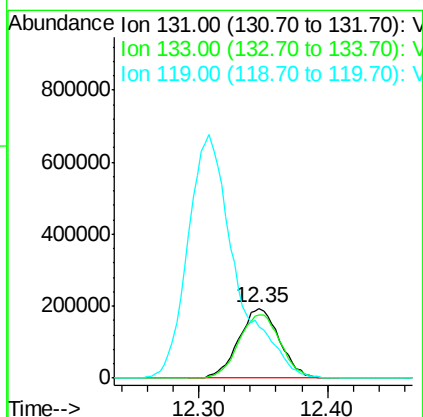
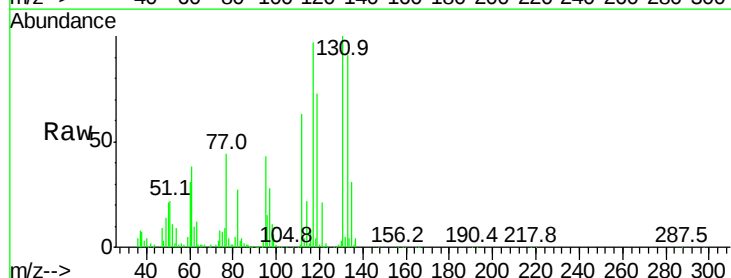
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

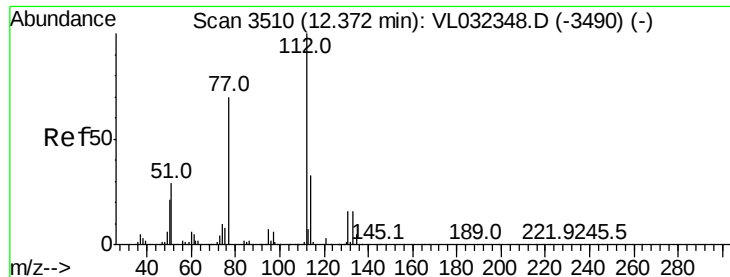
Tgt Ion:117 Resp: 4768167
Ion Ratio Lower Upper
117 100
82 65.6 52.6 78.8
119 36.7 25.7 38.5



#56
1,1,1,2-Tetrachloroethane
Concen: 2.170 ppbv
RT: 12.35 min Scan# 3502
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion:131 Resp: 426572
Ion Ratio Lower Upper
131 100
133 93.7 75.8 113.6
119 408.9 48.1 72.1#





#57

Chlorobenzene

Concen: 2.088 ppbv

RT: 12.37 min Scan# 3509

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

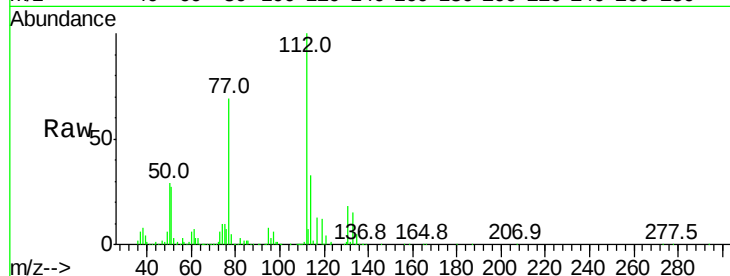
Tgt Ion: 112 Resp: 774293

Ion Ratio Lower Upper

112 100

77 68.9 56.5 84.7

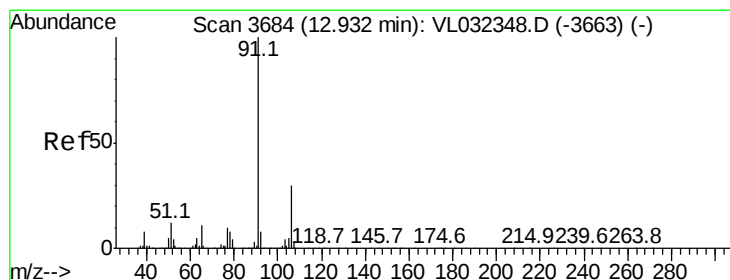
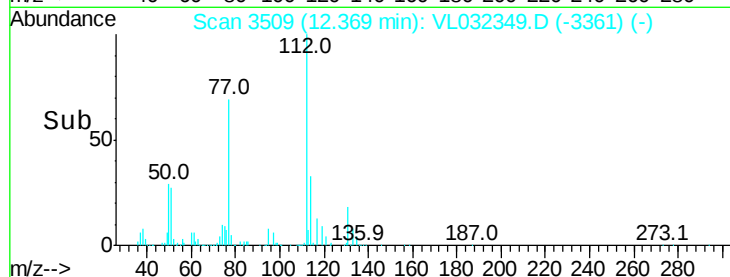
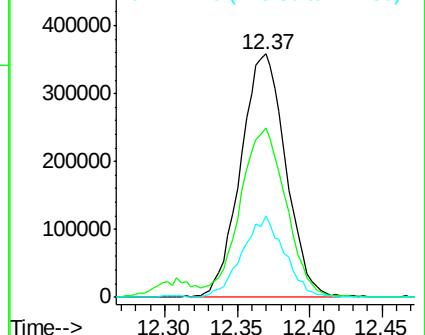
114 32.9 28.4 34.7



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: 2.120 ppbv

RT: 12.93 min Scan# 3684

Delta R.T. -0.02 min

Lab File: VL032349.D

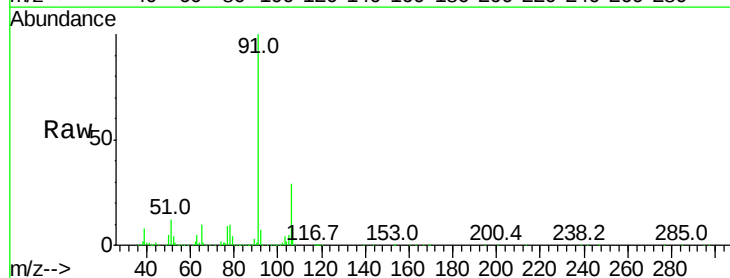
Acq: 15 Aug 2018 10:38

Tgt Ion: 91 Resp: 1267147

Ion Ratio Lower Upper

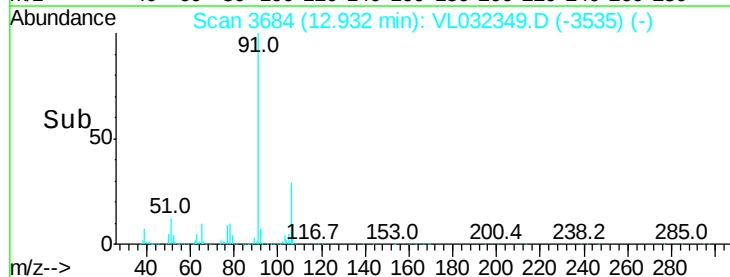
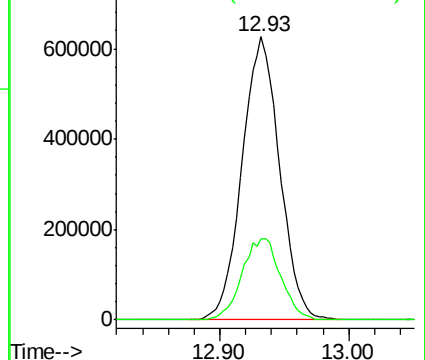
91 100

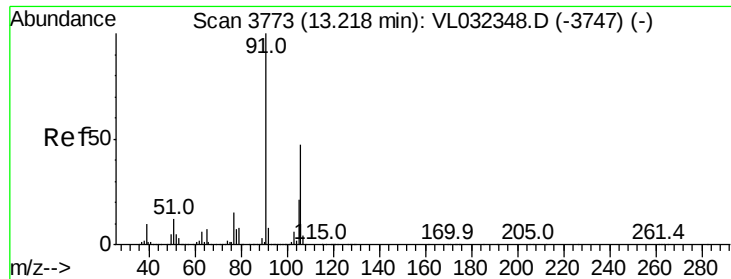
106 28.8 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 1.307 ppbv

RT: 13.22 min Scan# 3773

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

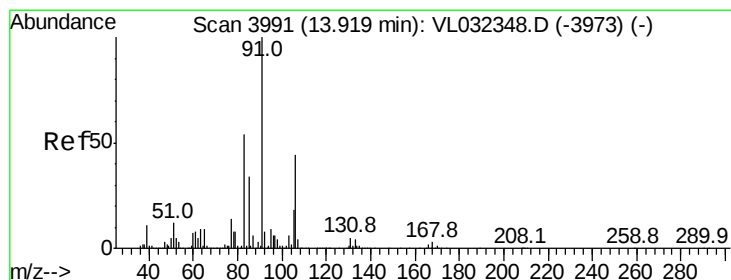
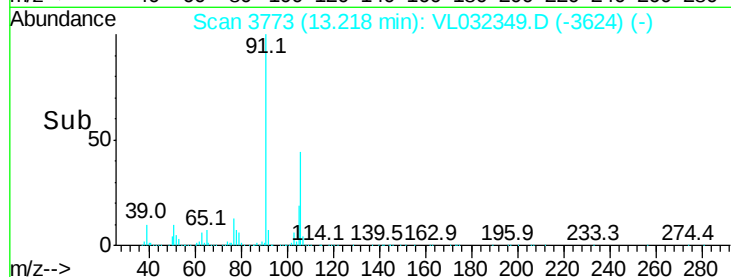
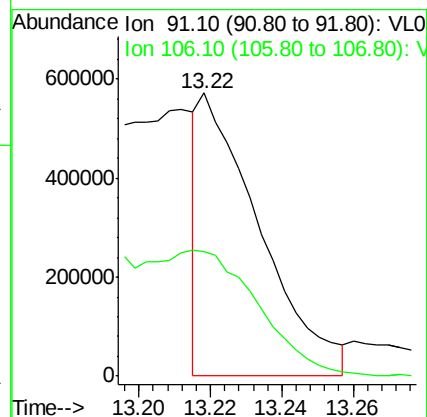
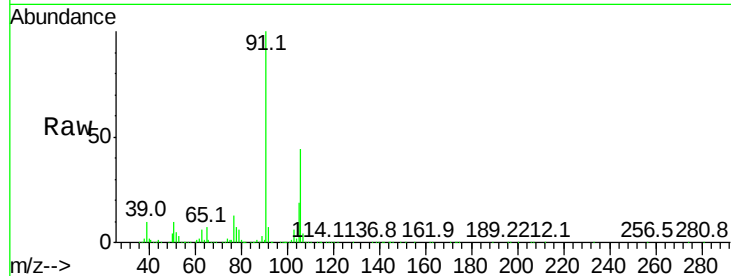
VSTDIC002

Tgt Ion: 91 Resp: 665025

Ion Ratio Lower Upper

91 100

106 145.0 36.4 54.6#



#60

o-Xylene

Concen: 2.114 ppbv

RT: 13.92 min Scan# 3991

Delta R.T. -0.02 min

Lab File: VL032349.D

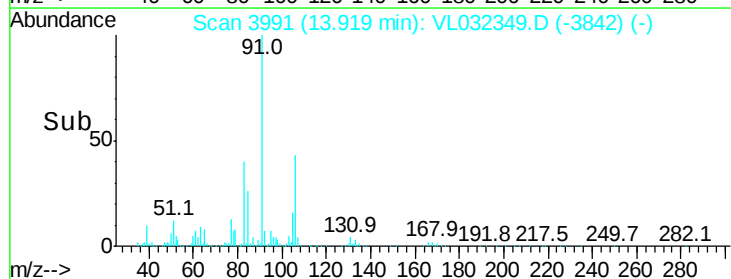
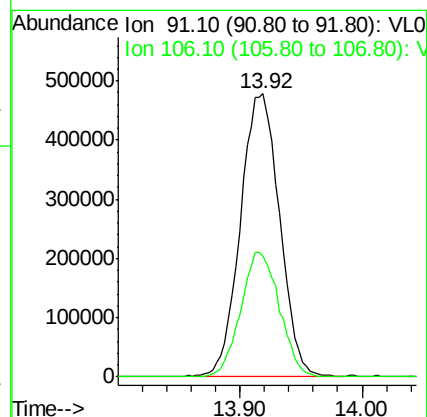
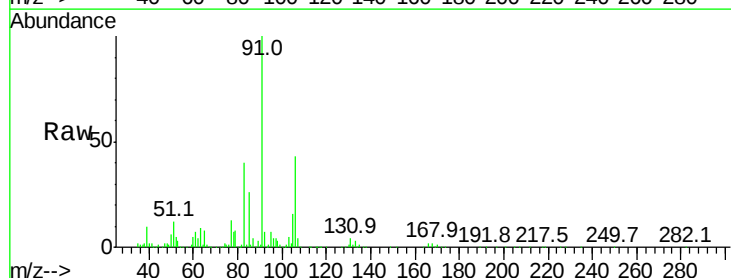
Acq: 15 Aug 2018 10:38

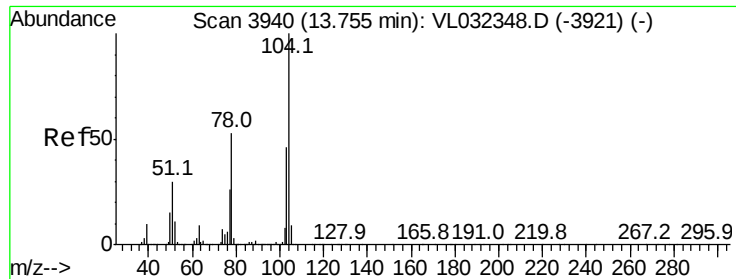
Tgt Ion: 91 Resp: 1054853

Ion Ratio Lower Upper

91 100

106 44.0 22.4 67.0





#61

Styrene

Concen: 2.034 ppbv

RT: 13.75 min Scan# 3938

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

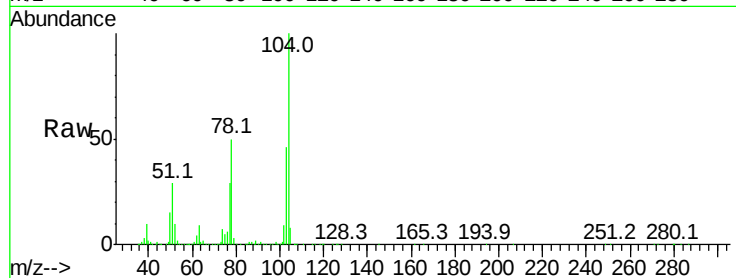
Tgt Ion:104 Resp: 747097

Ion Ratio Lower Upper

104 100

78 53.1 42.6 63.8

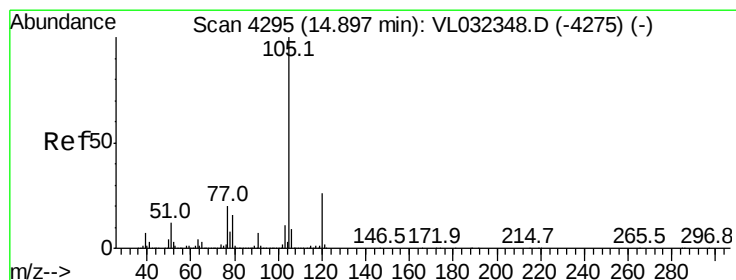
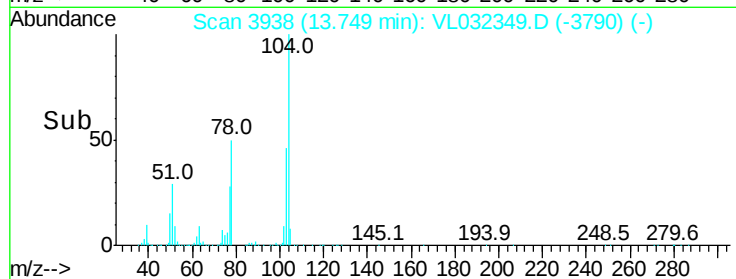
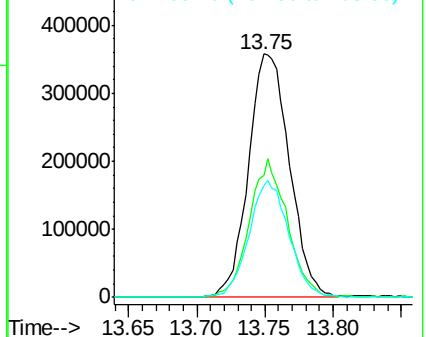
103 46.6 38.0 57.0



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: 2.104 ppbv

RT: 14.89 min Scan# 4294

Delta R.T. -0.02 min

Lab File: VL032349.D

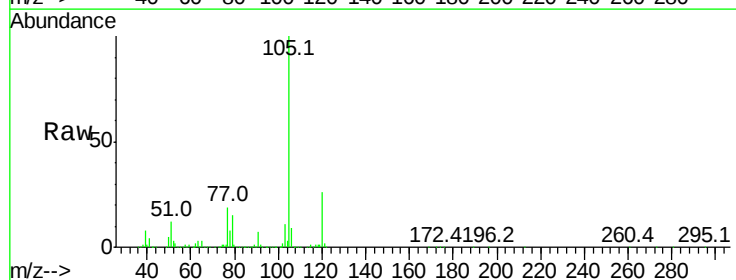
Acq: 15 Aug 2018 10:38

Tgt Ion:105 Resp: 1491840

Ion Ratio Lower Upper

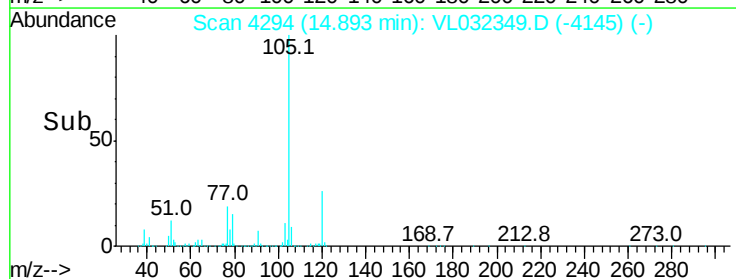
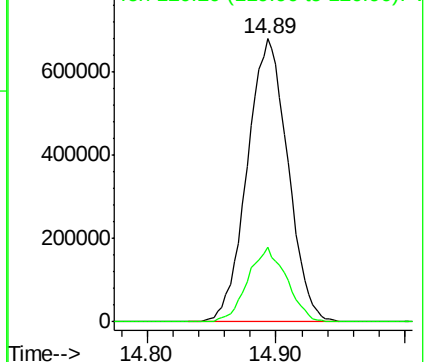
105 100

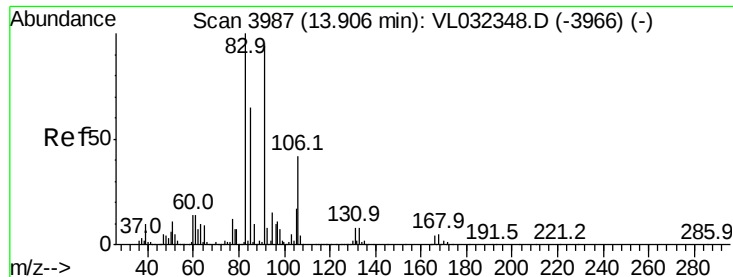
120 25.3 20.4 30.6



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: 2.073 ppbv

RT: 13.90 min Scan# 3986

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

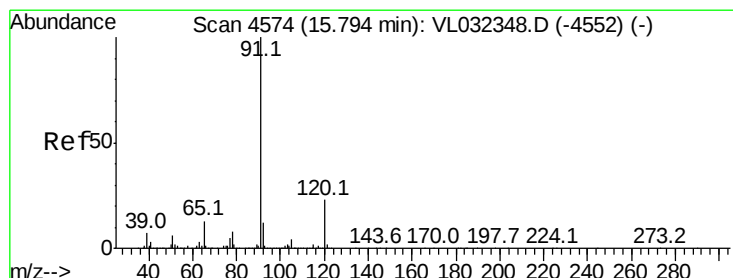
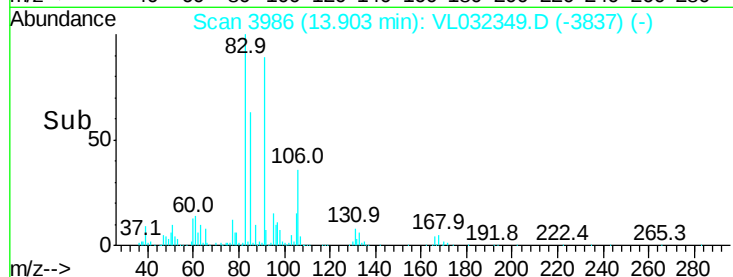
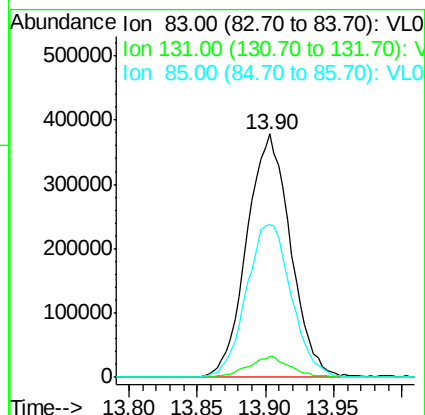
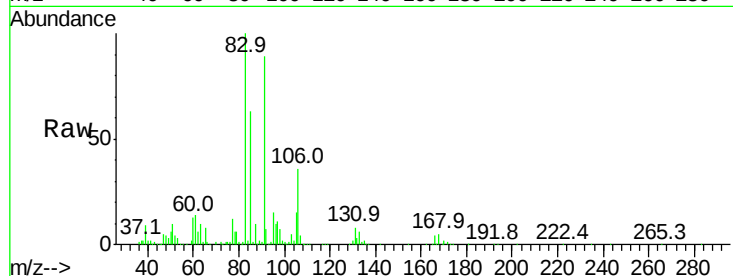
Tgt Ion: 83 Resp: 841837

Ion Ratio Lower Upper

83 100

131 8.3 4.3 12.8

85 65.5 32.6 97.7



#64

n-propylbenzene

Concen: 2.070 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.02 min

Lab File: VL032349.D

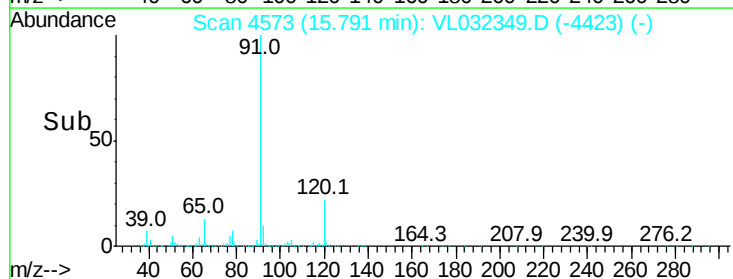
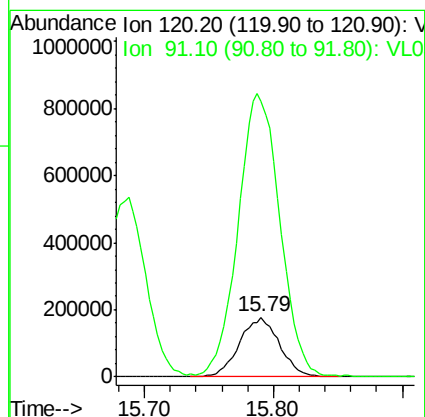
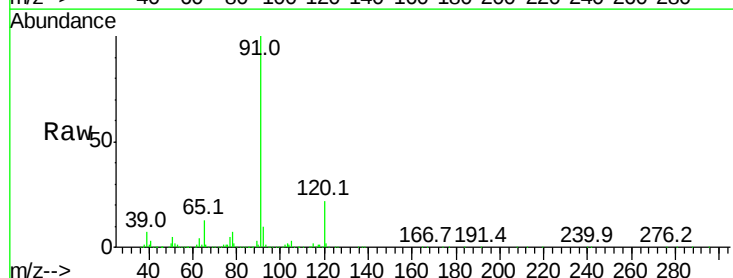
Acq: 15 Aug 2018 10:38

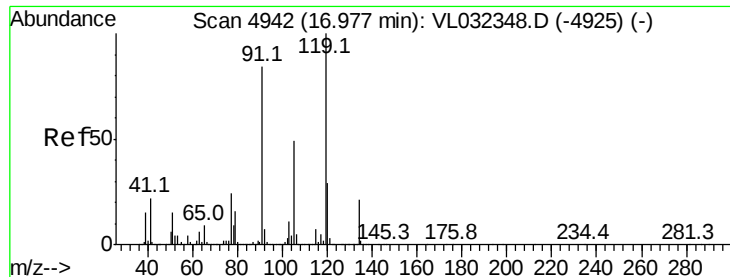
Tgt Ion: 120 Resp: 382058

Ion Ratio Lower Upper

120 100

91 496.3 381.8 572.8





#65

tert-Butylbenzene

Concen: 2.243 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

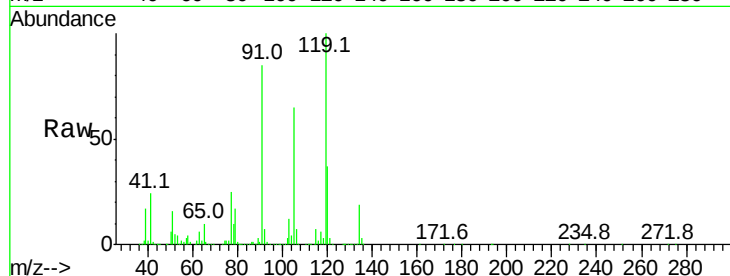
Tgt Ion:119 Resp: 1343354

Ion Ratio Lower Upper

119 100

91 84.8 67.5 101.3

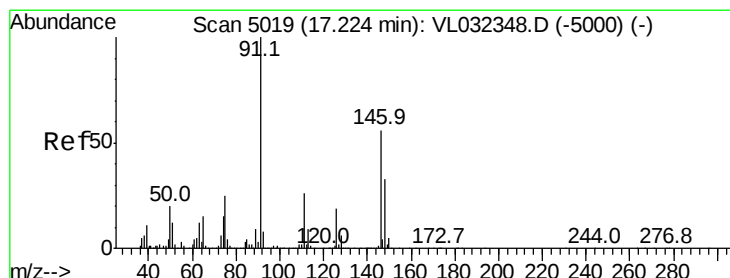
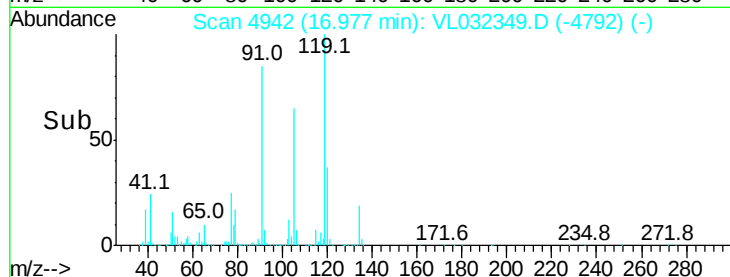
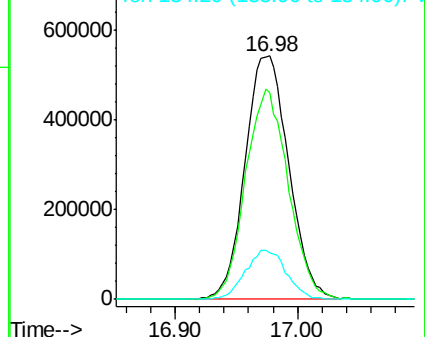
134 19.1 15.8 23.6



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: 2.133 ppbv

RT: 17.22 min Scan# 5019

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

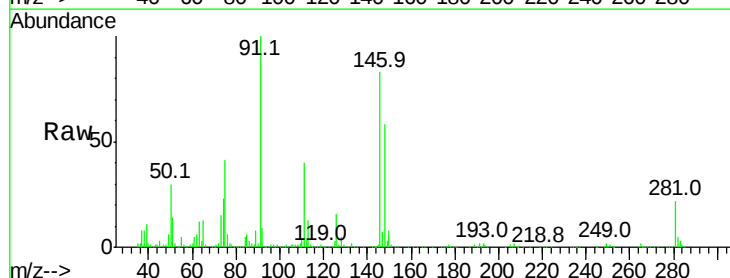
Tgt Ion: 91 Resp: 761425

Ion Ratio Lower Upper

91 100

126 18.6 13.7 20.5

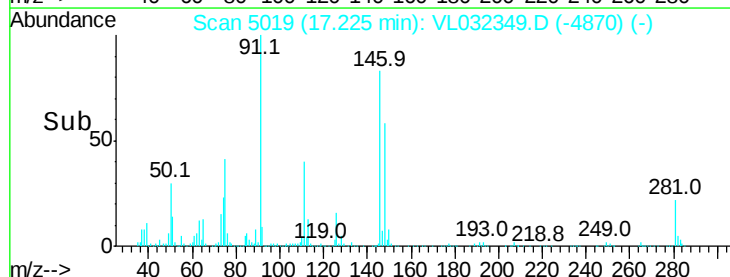
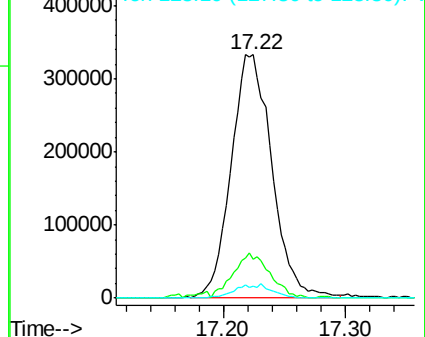
128 5.4 4.3 6.5

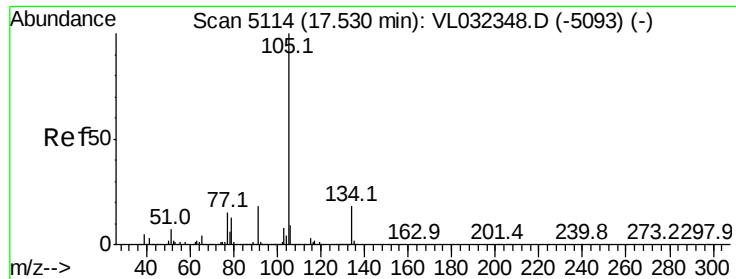


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

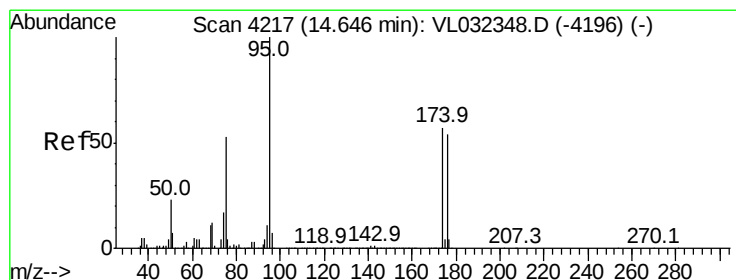
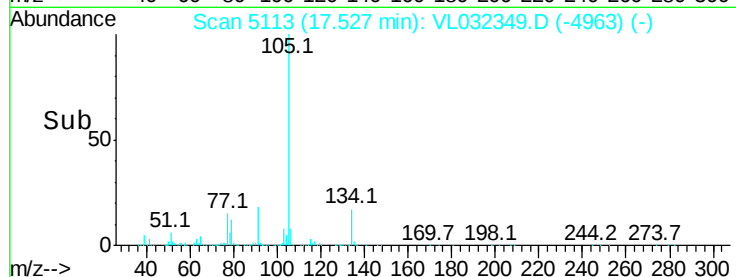
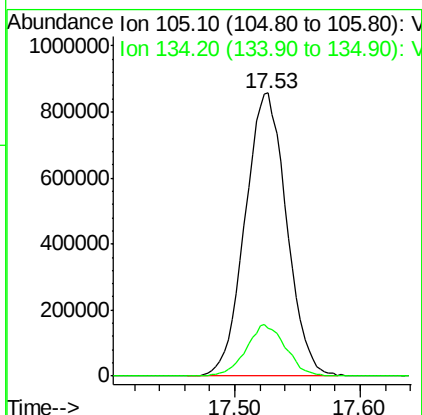
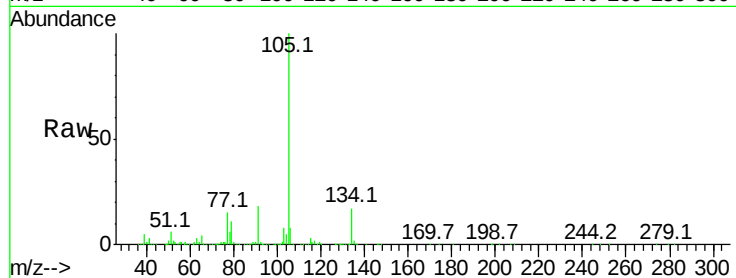




#67
 sec-Butylbenzene
 Concen: 2.200 ppbv
 RT: 17.53 min Scan# 5113
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

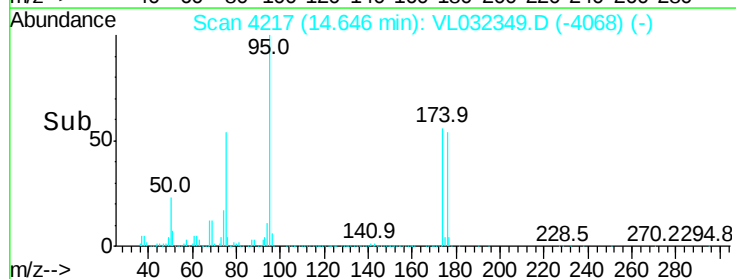
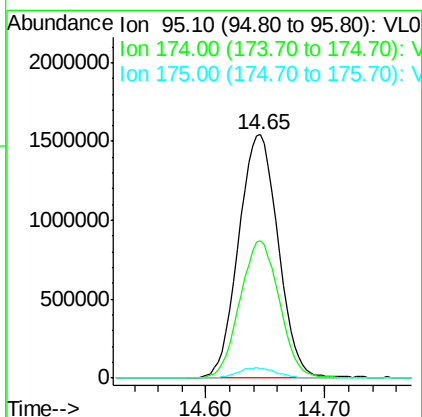
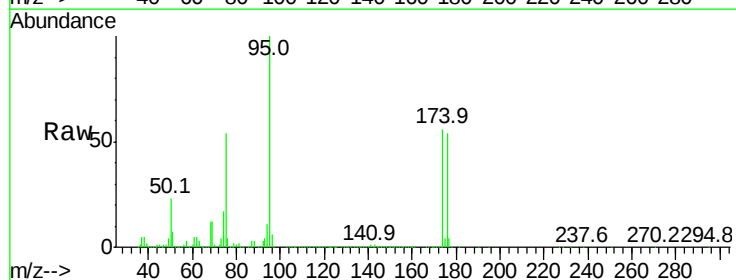
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

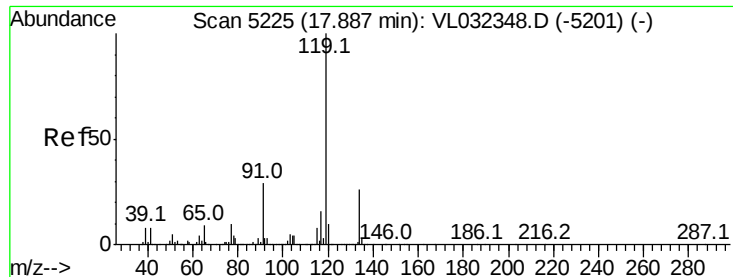
Tgt Ion: 105 Resp: 1973079
 Ion Ratio Lower Upper
 105 100
 134 17.5 14.2 21.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.593 ppbv
 RT: 14.65 min Scan# 4217
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion: 95 Resp: 3550340
 Ion Ratio Lower Upper
 95 100
 174 57.0 45.5 68.3
 175 4.1 3.3 4.9





#69

p-Isopropyltoluene

Concen: 2.215 ppbv

RT: 17.88 min Scan# 5223

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

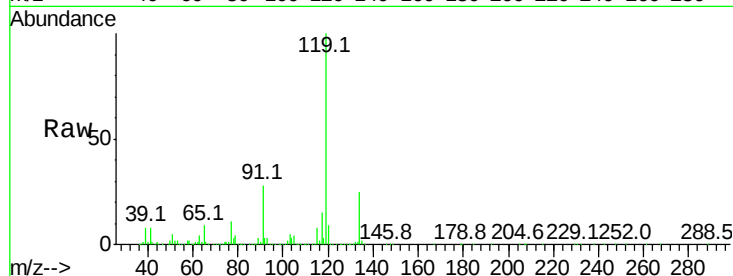
Tgt Ion: 119 Resp: 1539037

Ion Ratio Lower Upper

119 100

134 25.1 20.3 30.5

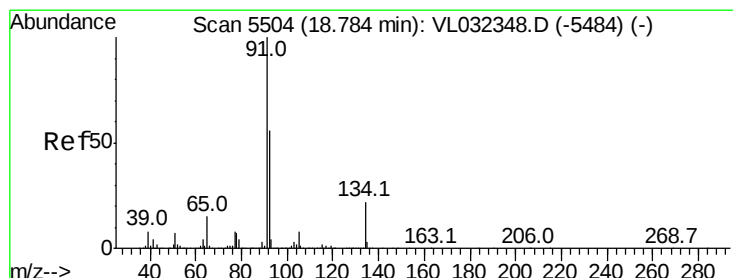
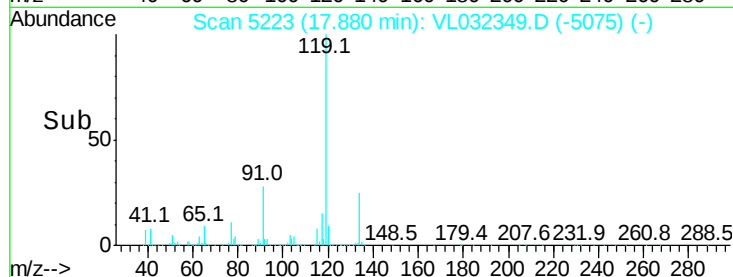
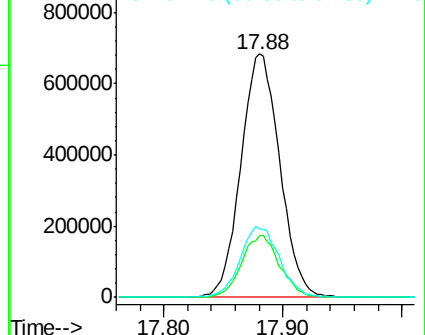
91 29.7 23.8 35.6



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: 2.059 ppbv

RT: 18.78 min Scan# 5503

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

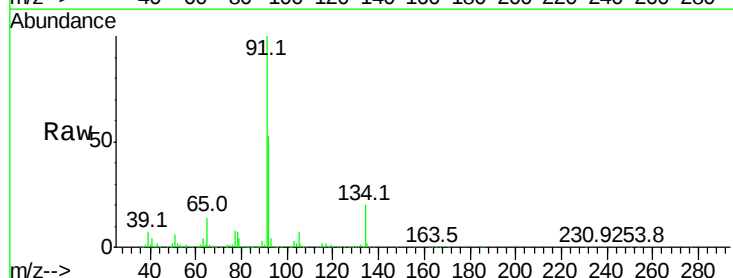
Tgt Ion: 91 Resp: 1651829

Ion Ratio Lower Upper

91 100

92 53.2 44.2 66.4

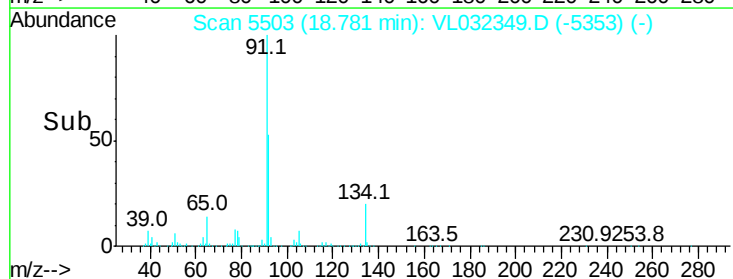
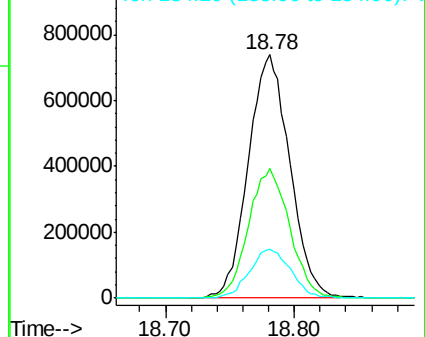
134 20.2 17.4 26.2

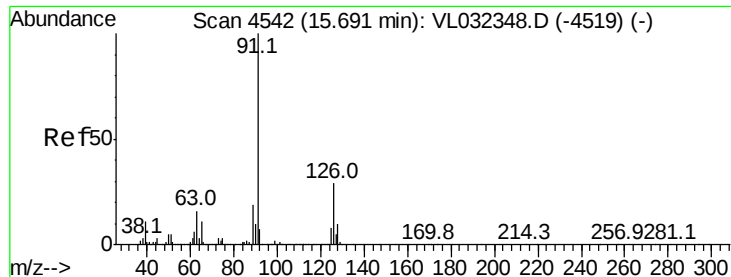


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 2.096 ppbv

RT: 15.69 min Scan# 4541

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

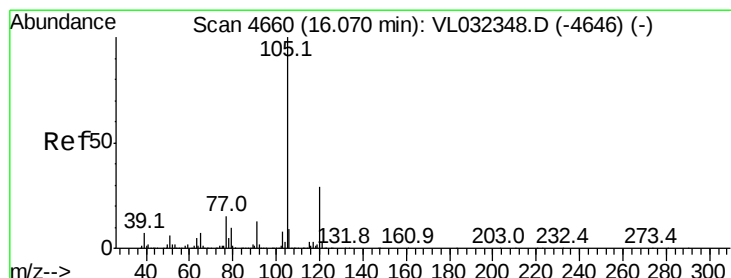
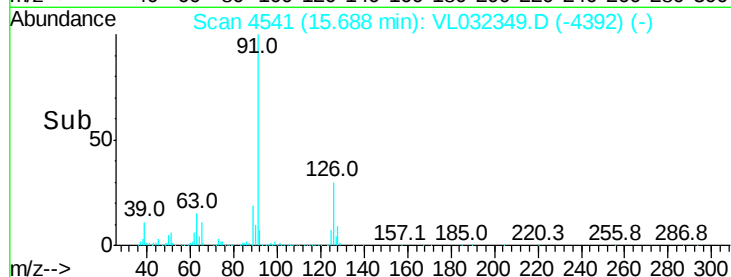
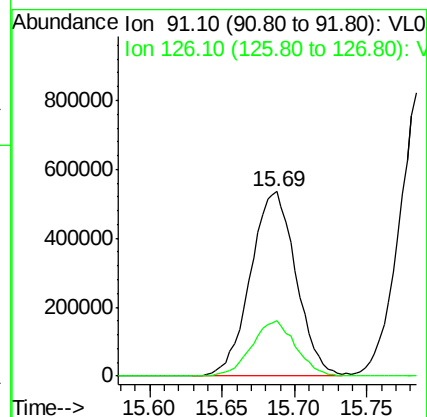
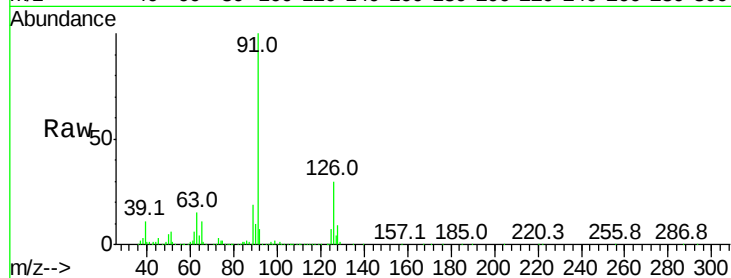
VSTDIC002

Tgt Ion: 91 Resp: 1166354

Ion Ratio Lower Upper

91 100

126 29.1 11.8 47.0



#72

4-Ethyltoluene

Concen: 2.146 ppbv

RT: 16.07 min Scan# 4659

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion: 105 Resp: 1199879

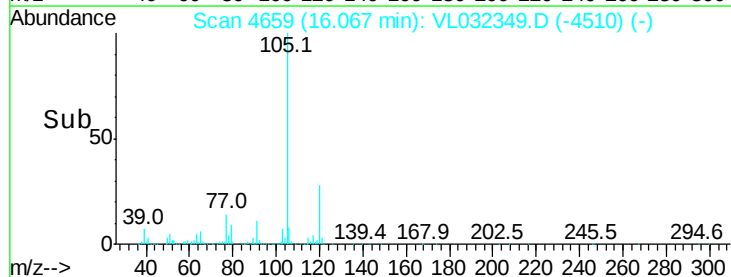
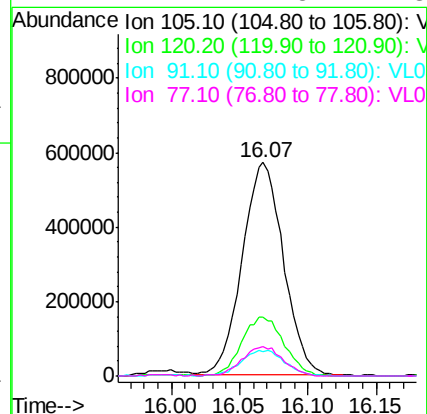
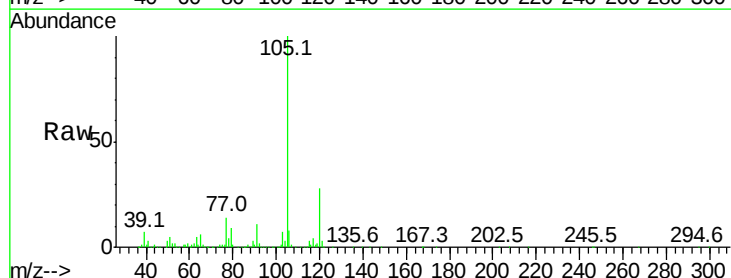
Ion Ratio Lower Upper

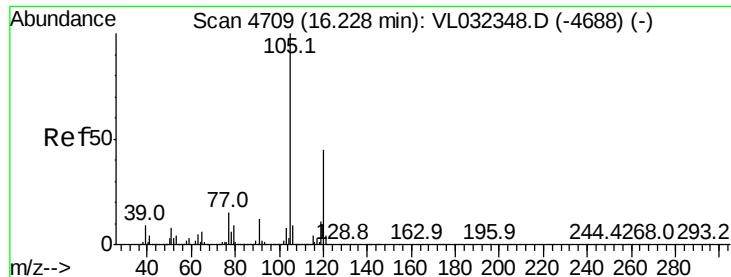
105 100

120 28.6 23.1 34.7

91 12.8 10.0 15.0

77 14.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 2.076 ppbv

RT: 16.22 min Scan# 4707

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

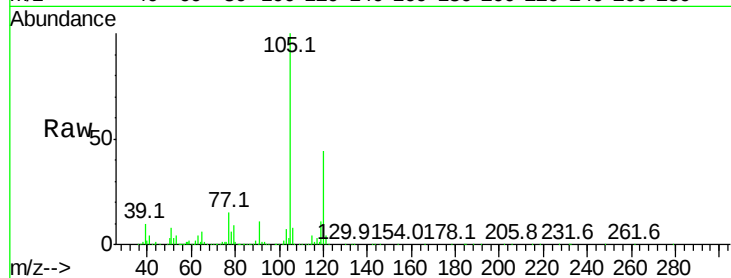
VSTDIC002

Tgt Ion:105 Resp: 1142612

Ion Ratio Lower Upper

105 100

120 43.8 36.5 54.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.22

600000

500000

400000

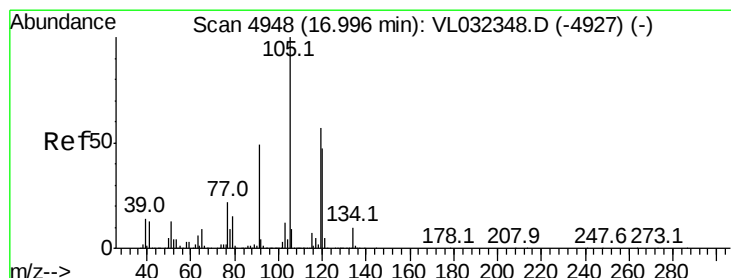
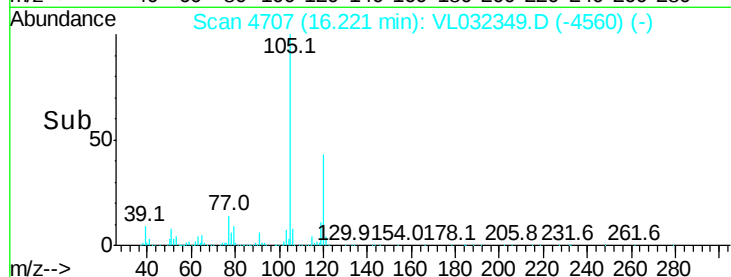
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.127 ppbv

RT: 16.99 min Scan# 4945

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:105 Resp: 1234436

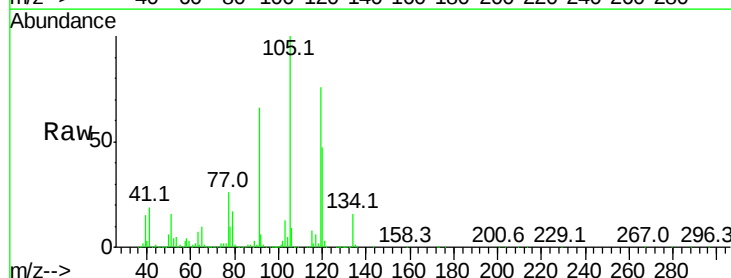
Ion Ratio Lower Upper

105 100

120 47.1 37.8 56.6

91 65.4 39.4 59.0#

77 26.3 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

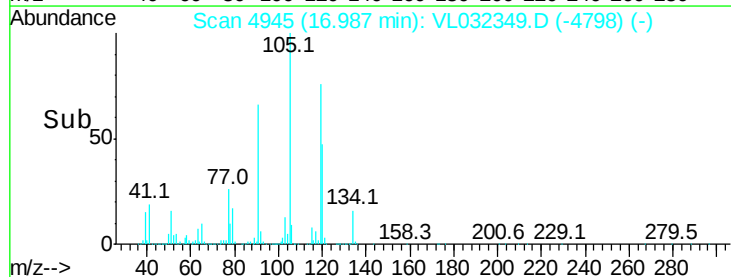
600000

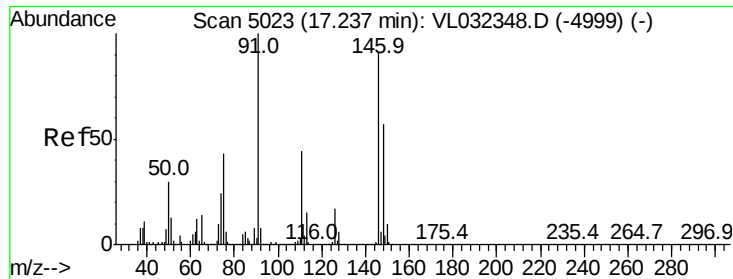
400000

200000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 2.148 ppbv

RT: 17.23 min Scan# 5022

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

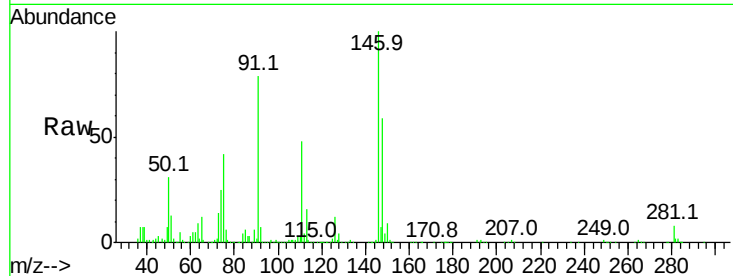
Tgt Ion:146 Resp: 721851

Ion Ratio Lower Upper

146 100

111 51.0 24.6 73.8

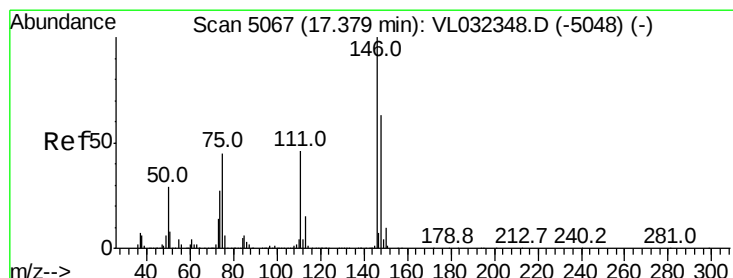
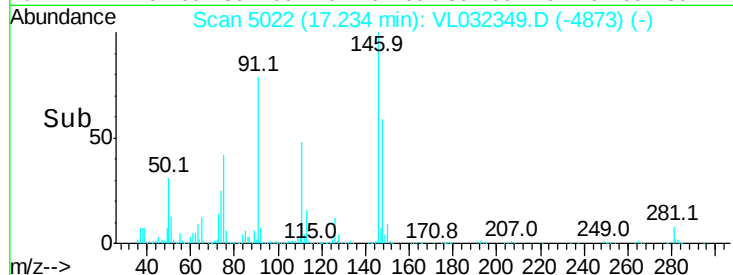
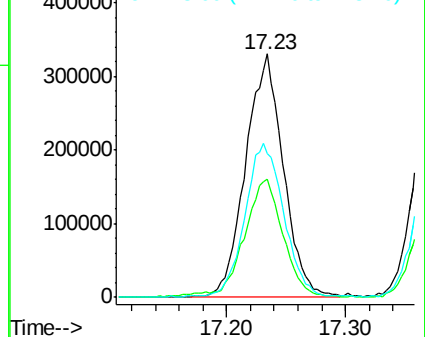
148 66.2 31.6 95.0



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: 2.151 ppbv

RT: 17.37 min Scan# 5065

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

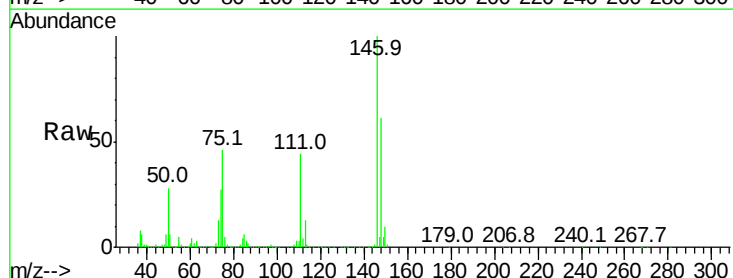
Tgt Ion:146 Resp: 693571

Ion Ratio Lower Upper

146 100

111 47.6 23.6 70.8

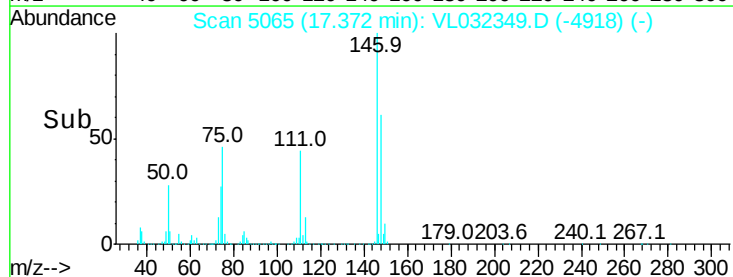
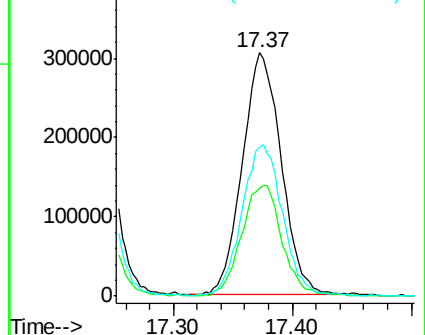
148 65.1 32.1 96.3

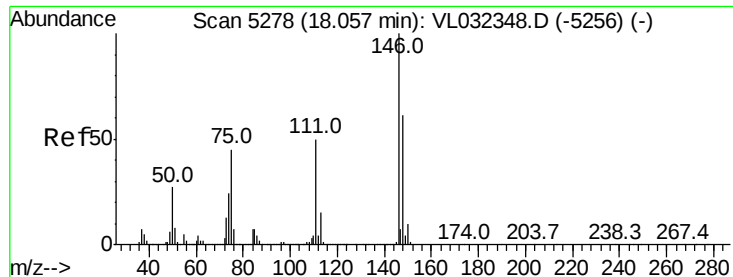


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

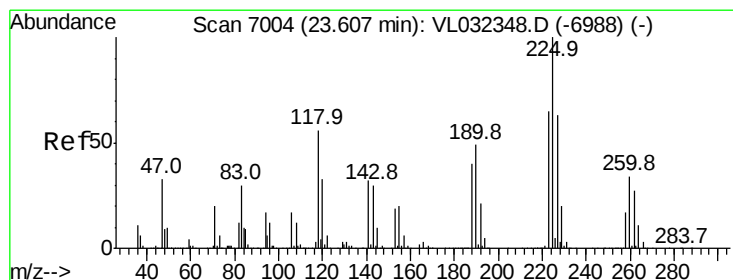
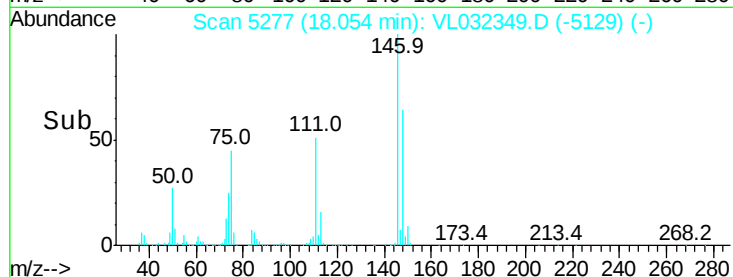
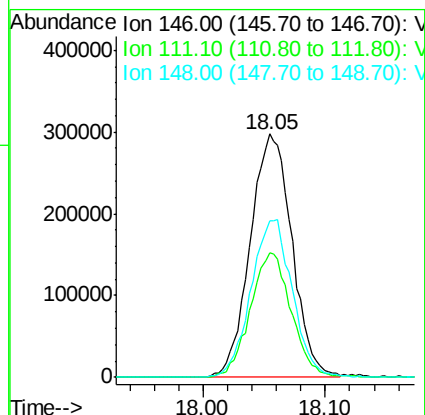
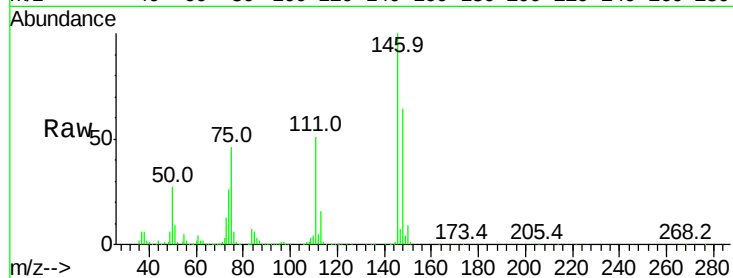




#77
 1,2-Dichlorobenzene
 Concen: 2.132 ppbv
 RT: 18.05 min Scan# 5277
 Delta R.T. -0.03 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

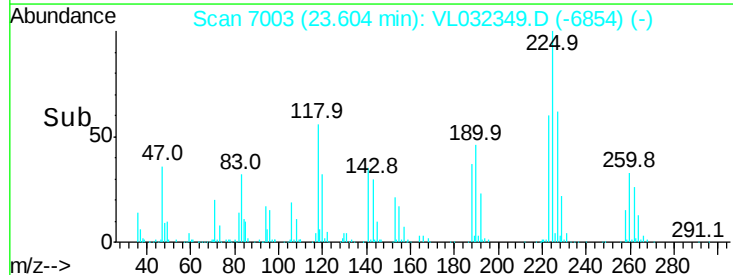
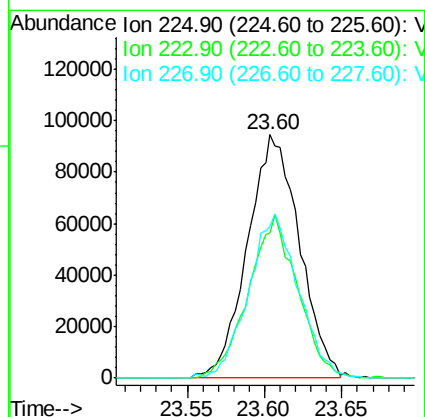
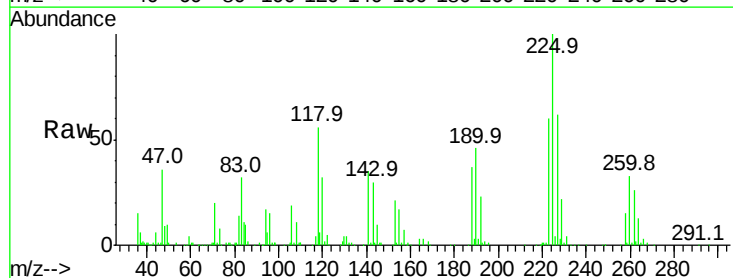
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

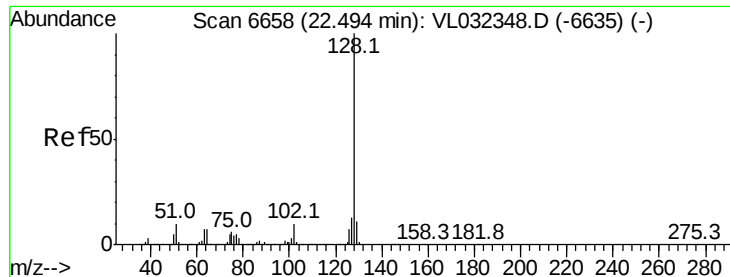
Tgt Ion:146 Resp: 703872
 Ion Ratio Lower Upper
 146 100
 111 50.5 25.1 75.3
 148 64.2 31.9 95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.883 ppbv
 RT: 23.60 min Scan# 7003
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion:225 Resp: 218627
 Ion Ratio Lower Upper
 225 100
 223 64.2 50.5 75.7
 227 65.4 51.3 76.9





#79

Naphthalene

Concen: 1.561 ppbv

RT: 22.49 min Scan# 6658

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

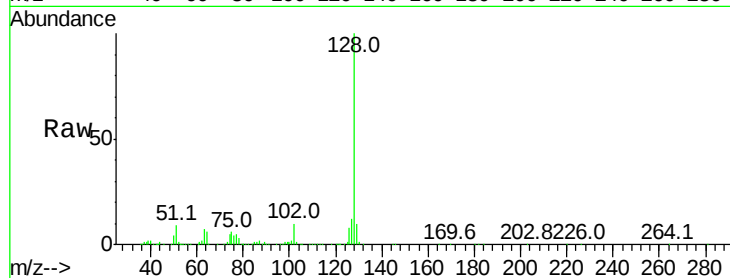
Instrument :

MSVOA_L

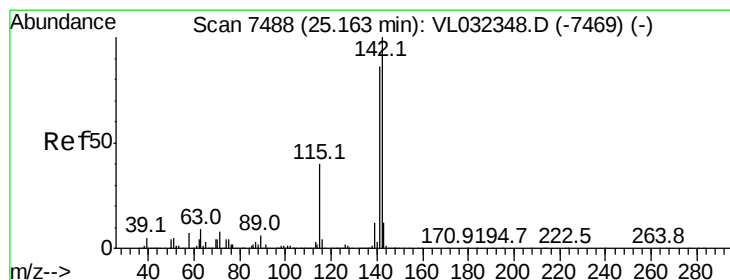
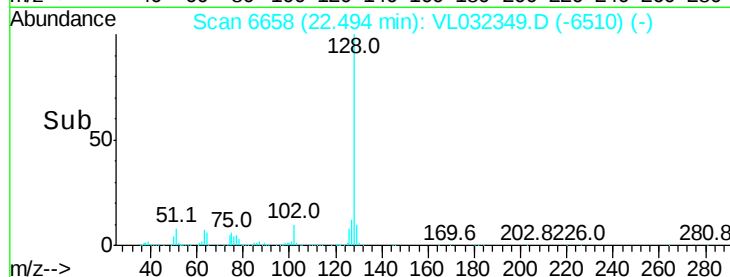
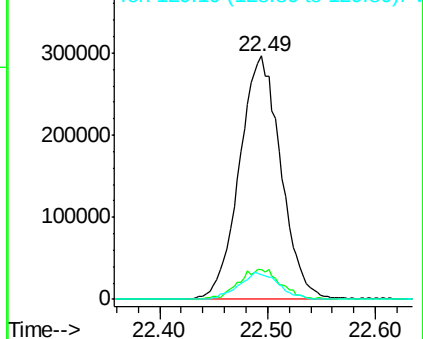
ClientSampleId :

VSTDIC002

Tgt Ion:	128	Resp:	786383
Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.9	14.9
129	10.1	8.8	13.2



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.445 ppbv

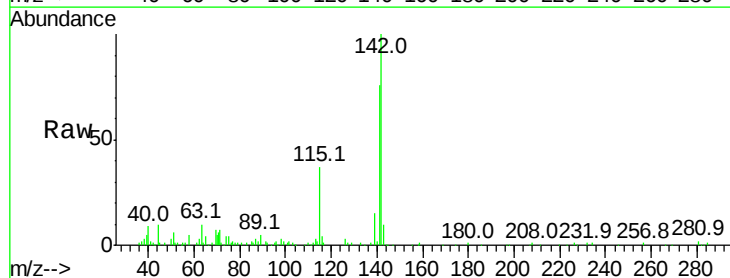
RT: 25.17 min Scan# 7490

Delta R.T. -0.01 min

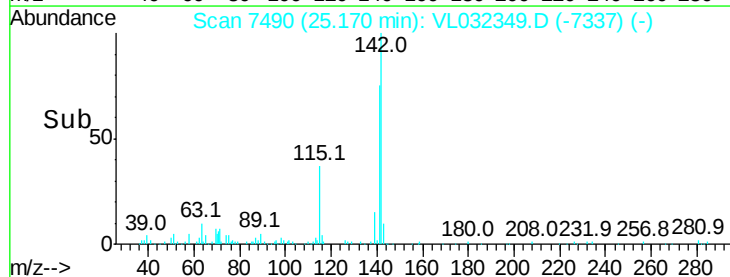
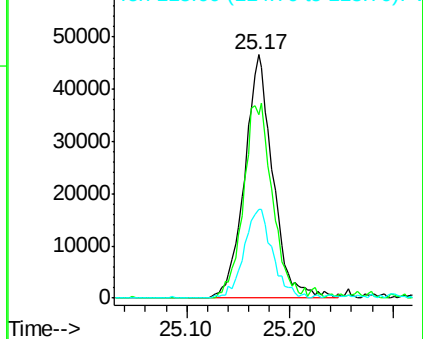
Lab File: VL032349.D

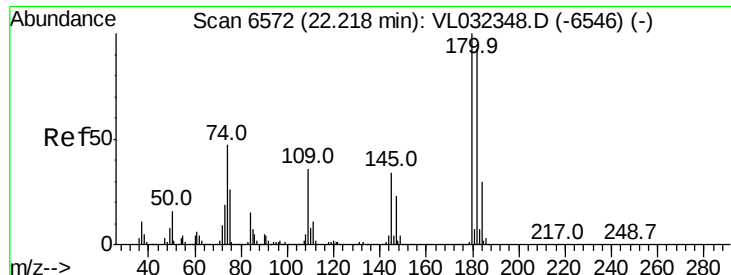
Acq: 15 Aug 2018 10:38

Tgt Ion:	142	Resp:	88659
Ion	Ratio	Lower	Upper
142	100		
141	82.0	66.7	100.1
115	36.8	31.1	46.7



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: 1.747 ppbv

RT: 22.22 min Scan# 6572

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

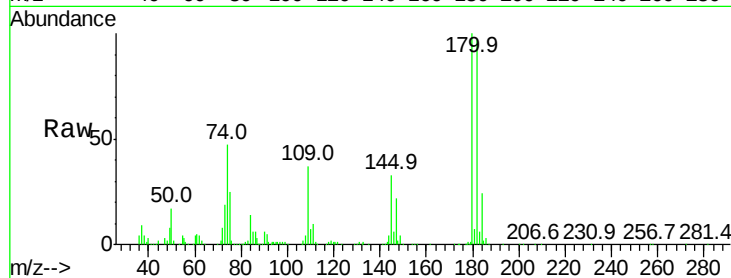
Tgt Ion:180 Resp: 439552

Ion Ratio Lower Upper

180 100

182 94.5 76.2 114.2

184 29.8 24.3 36.5



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

