

Data File : VL032902.D
Acq On : 5 Dec 2018 7:51
Operator : SY/AP
Sample : VL1204ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Quant Time: Dec 05 09:35:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1394213	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3546972	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4712652	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2679876	7.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	76.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1755538	8.760	ppbv	100
3) Chlorodifluoromethane	3.02	51	1058998	9.581	ppbv	96
4) Chloromethane	3.17	50	600445	9.797	ppbv	98
5) Vinyl Chloride	3.30	62	626603	9.648	ppbv	99
6) Bromomethane	3.52	94	389374	9.801	ppbv	92
7) Chloroethane	3.61	64	230267	9.837	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	1450022	9.182	ppbv	95
9) Propene	3.04	41	501201	11.331	ppbv	100
10) Heptane	8.25	43	1923457	11.390	ppbv	98
11) Trichlorofluoromethane	4.01	101	2027858	10.737	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1429810	9.268	ppbv	95
13) Ethanol	3.65	45	126276	8.716	ppbv	98
14) Bromoethene	3.79	108	496050	9.692	ppbv	98
15) Acetone	3.90	43	1096777	8.614	ppbv	99
16) 1,3-Butadiene	3.37	39	512862	10.401	ppbv	92
17) tert-Butyl alcohol	4.36	59	333641	8.355	ppbv	99
18) 1,1-Dichloroethene	4.35	96	538670	7.101	ppbv	98
19) Isopropyl Alcohol	4.03	45	1151871	13.580	ppbv	# 99
20) Methylene Chloride	4.41	84	461164	6.996	ppbv	99
21) Allyl Chloride	4.48	41	874172	8.170	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	740194	9.992	ppbv	98
23) Vinyl Acetate	5.16	43	2370597	10.214	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1736164	9.409	ppbv	99
25) Ethyl Acetate	5.78	43	3237950	10.911	ppbv	100
26) Hexane	5.79	57	1490498	11.283	ppbv	99
27) Carbon Disulfide	4.62	76	1884260	11.249	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2243240	10.649	ppbv	99
29) Chloroform	5.86	83	2324337	9.872	ppbv	96
30) Cyclohexane	7.25	84	1306747	11.310	ppbv	96
31) cis-1,2-Dichloroethene	5.65	61	1313473	9.890	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	2337801	9.059	ppbv	98
34) 2-Butanone	5.34	43	1886305	10.253	ppbv	99
35) Carbon Tetrachloride	7.14	117	2477295	8.688	ppbv	99
36) Benzene	7.01	78	3085330	10.923	ppbv	97
37) 1,2-Dichloroethane	6.42	62	1708866	8.988	ppbv	97
38) Trichloroethene	7.97	130	1244542	10.888	ppbv	97
39) 1,2-Dichloropropane	7.75	63	1175710	10.925	ppbv	92
40) 1,4-Dioxane	7.96	88	449184	11.686	ppbv	80
41) Tetrahydrofuran	6.15	42	1256420	11.906	ppbv	98
42) Bromodichloromethane	7.93	83	2524312	9.794	ppbv	98
43) Methyl Methacrylate	8.15	69	1221406	11.583	ppbv	96

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Quant Time: Dec 05 09:35:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5150492	10.912	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	1693279	11.967	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1891024	11.062	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1274878	10.019	ppbv	97
48) Dibromochloromethane	10.46	129	2319830	10.726	ppbv	99
49) Bromoform	13.21	173	2080586	11.648	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2956930	10.291	ppbv	100
51) 2-Hexanone	10.28	43	2244267	12.123	ppbv	99
52) Tetrachloroethene	11.38	164	1127495	11.475	ppbv	98
53) Toluene	9.95	91	3621179	12.289	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1968425	10.943	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1735836	7.897	ppbv	98
57) Chlorobenzene	12.31	112	2952935	8.186	ppbv	98
58) Ethyl Benzene	12.87	91	5198749	9.166	ppbv	98
59) m/p-Xylene	13.13	91	4480343	8.874	ppbv #	31
60) o-Xylene	13.86	91	4107831	8.092	ppbv	97
61) Styrene	13.70	104	3266111	9.883	ppbv	96
62) Isopropylbenzene	14.83	105	6075753	8.854	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2798652	7.072	ppbv	98
64) n-propylbenzene	15.73	120	1522363	8.435	ppbv	90
65) tert-Butylbenzene	16.92	119	4910223	7.983	ppbv	95
66) Benzyl Chloride	17.16	91	2741049	8.060	ppbv	99
67) sec-Butylbenzene	17.47	105	6849274	7.726	ppbv	99
69) p-Isopropyltoluene	17.82	119	5559700	7.888	ppbv	97
70) n-Butylbenzene	18.72	91	5389070	7.530	ppbv	99
71) 2-Chlorotoluene	15.62	91	4416926	8.631	ppbv	97
72) 4-Ethyltoluene	16.01	105	4506958	8.100	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	4270418	7.849	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4254693	7.308	ppbv	93
75) 1,3-Dichlorobenzene	17.17	146	2422291	7.253	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2377119	7.620	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2348238	7.601	ppbv	98
78) Hexachloro-1,3-Butadiene	23.55	225	1009449	6.054	ppbv	100
79) Naphthalene	22.42	128	3323063	8.689	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	768805	8.026	ppbv	96
81) 1,2,4-Trichlorobenzene	22.14	180	1648264	8.582	ppbv	99

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

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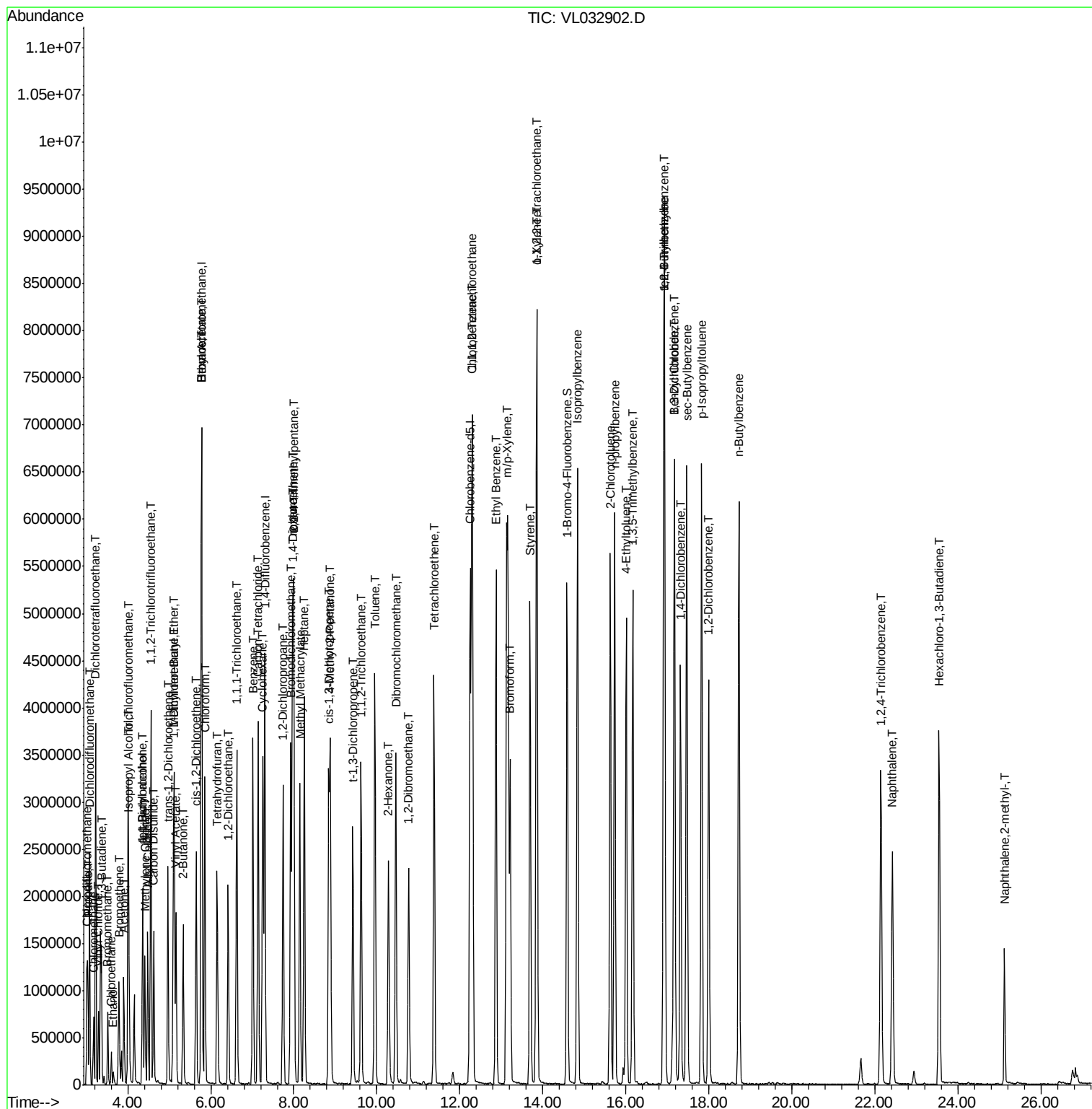
Quant Time: Dec 05 09:35:01 2018

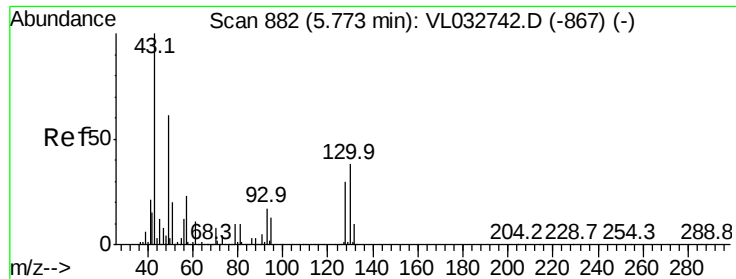
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL111418AIR.M

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QLast Update : Wed Nov 14 07:00:23 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

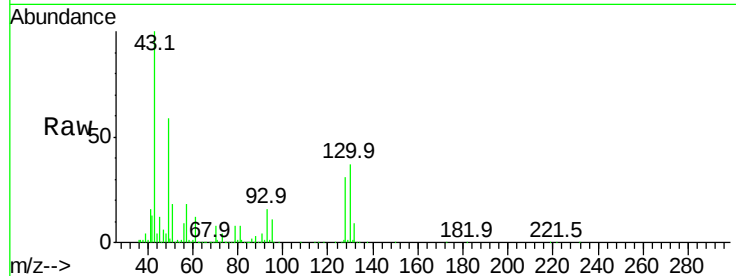
Tgt Ion: 49 Resp: 1394213

Ion Ratio Lower Upper

49 100

128 52.0 24.9 74.6

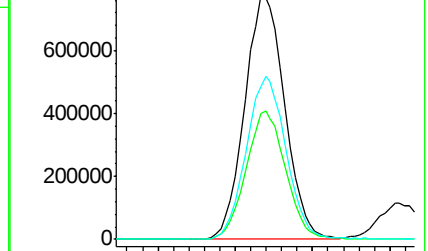
130 66.7 31.4 94.2



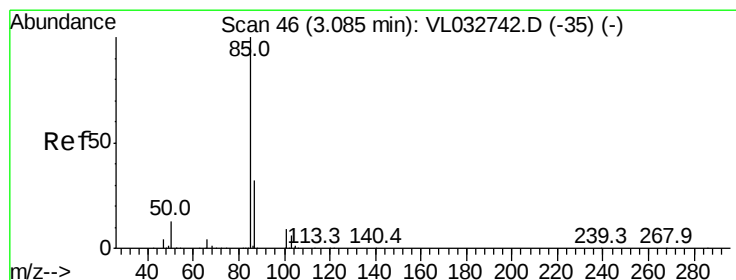
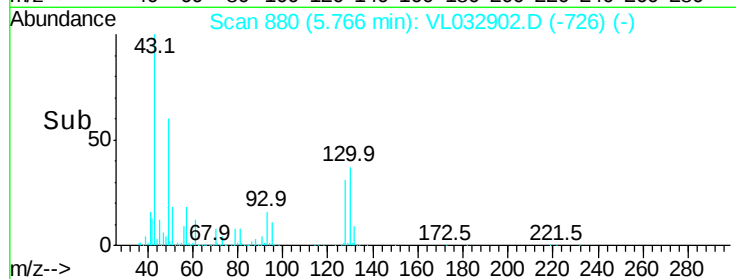
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 8.760 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032902.D

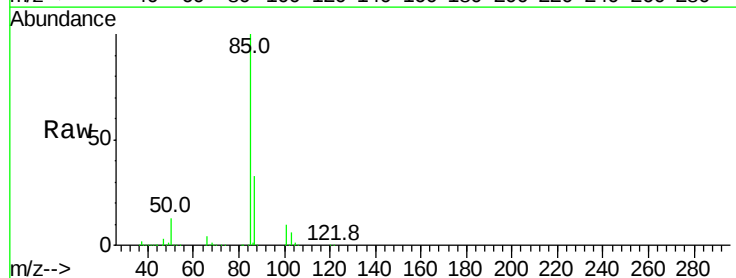
Acq: 5 Dec 2018 7:51

Tgt Ion: 85 Resp: 1755538

Ion Ratio Lower Upper

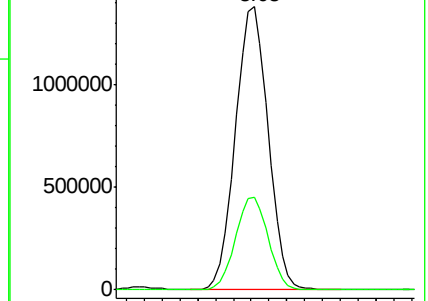
85 100

87 32.6 26.0 39.0

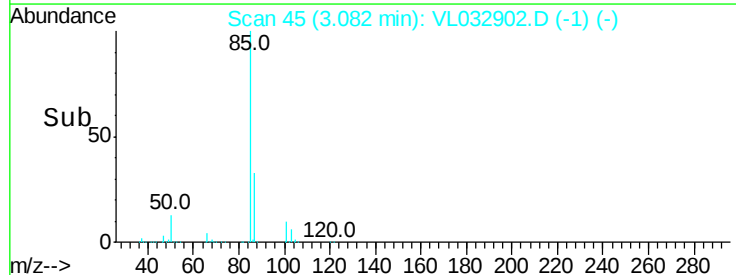


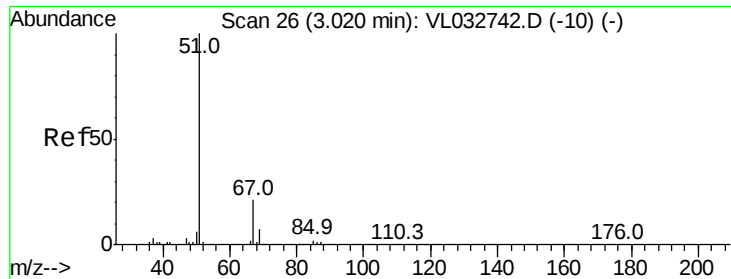
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 9.581 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

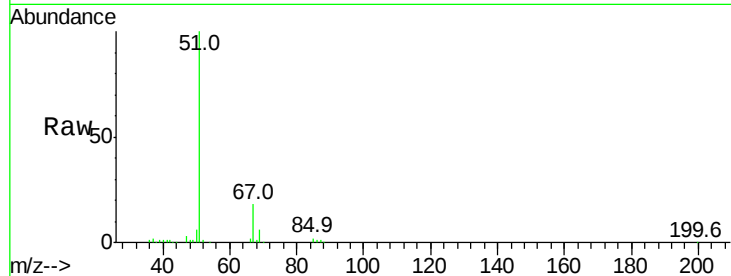
VL1204ABS01

Tgt Ion: 51 Resp: 1058998

Ion Ratio Lower Upper

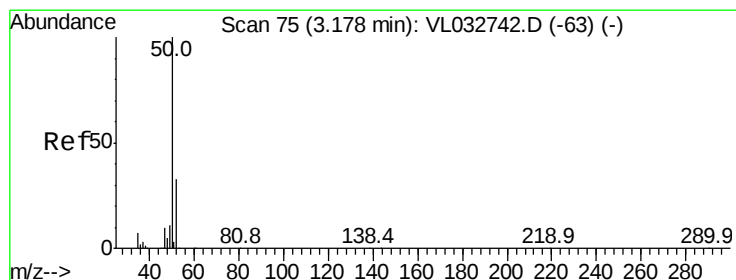
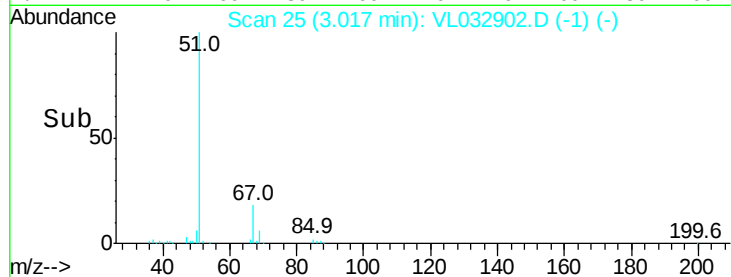
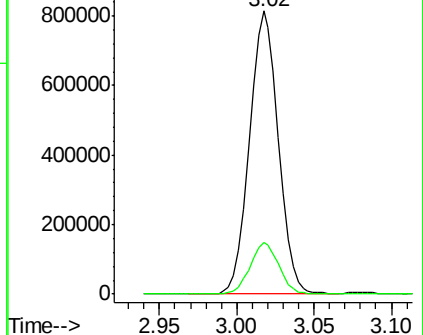
51 100

67 18.1 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.797 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032902.D

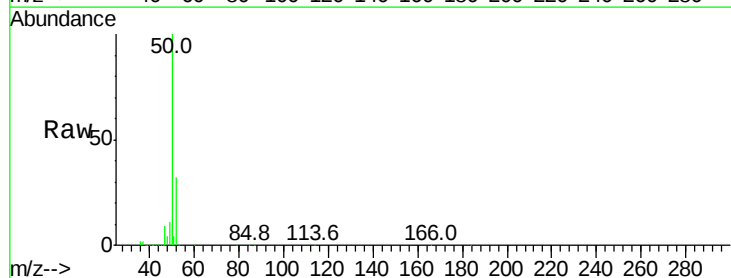
Acq: 5 Dec 2018 7:51

Tgt Ion: 50 Resp: 600445

Ion Ratio Lower Upper

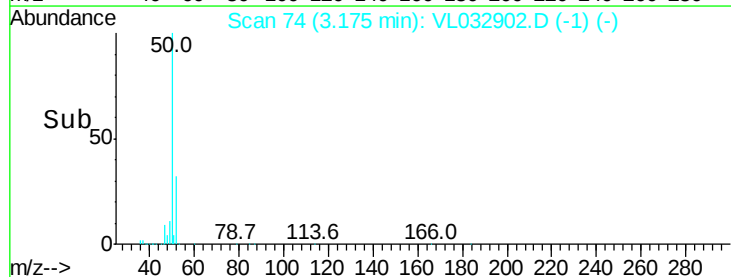
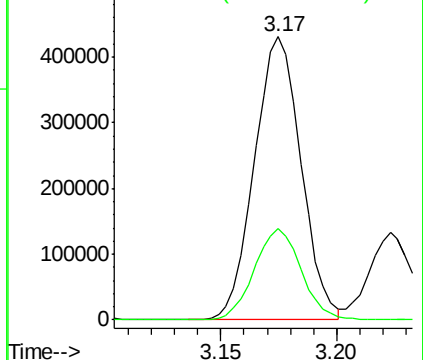
50 100

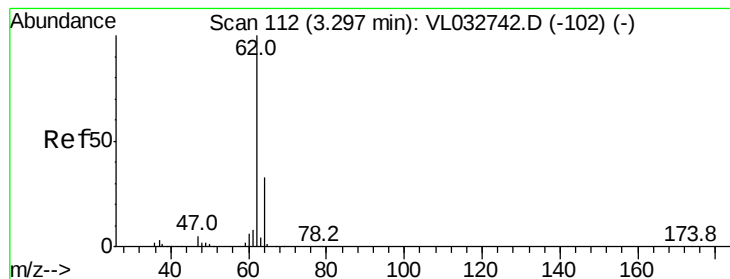
52 32.2 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.648 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

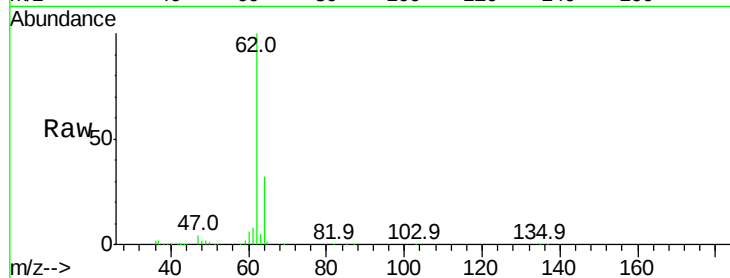
VL1204ABS01

Tgt Ion: 62 Resp: 626603

Ion Ratio Lower Upper

62 100

64 32.3 26.2 39.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.30

400000

300000

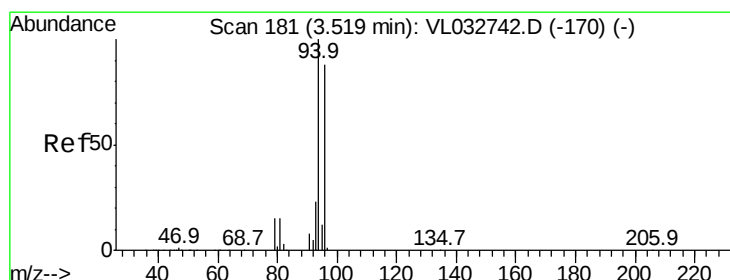
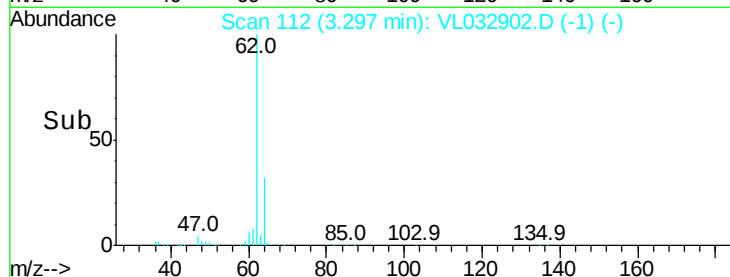
200000

100000

0

Time-->

3.25 3.30 3.35



#6

Bromomethane

Concen: 9.801 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032902.D

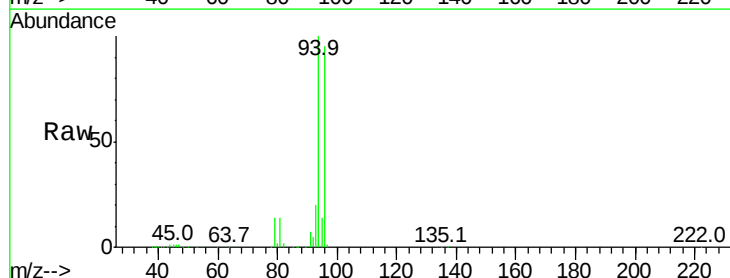
Acq: 5 Dec 2018 7:51

Tgt Ion: 94 Resp: 389374

Ion Ratio Lower Upper

94 100

96 95.1 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

300000

250000

200000

150000

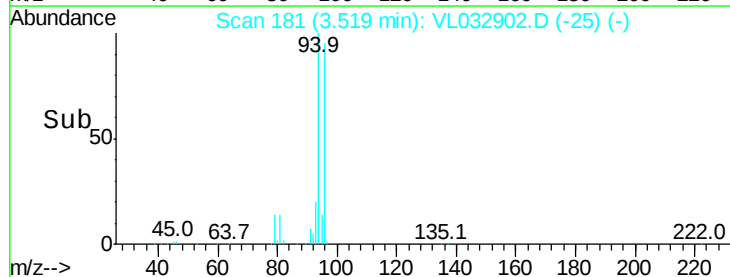
100000

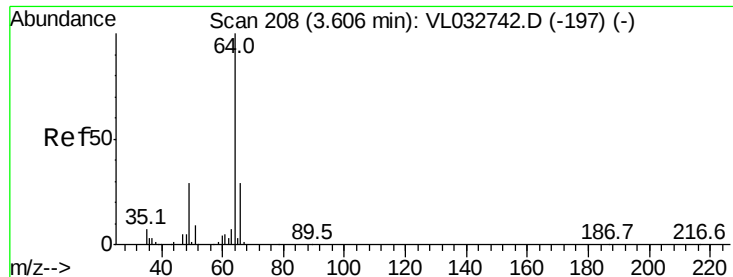
50000

0

Time-->

3.45 3.50 3.55





#7

Chloroethane

Concen: 9.837 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

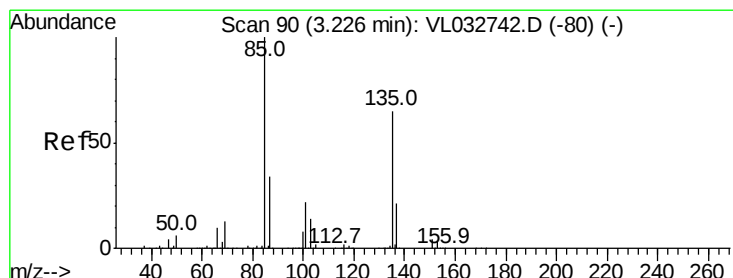
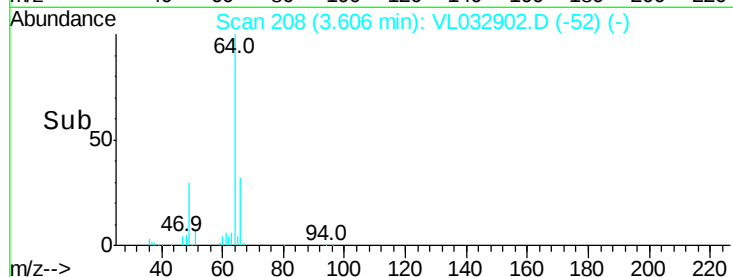
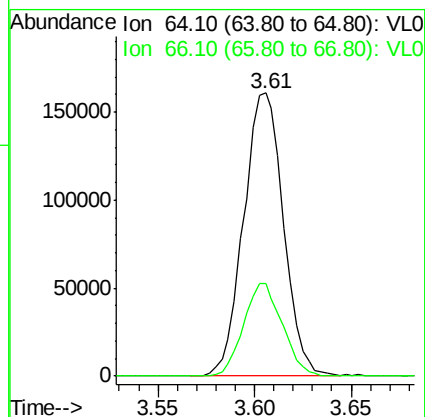
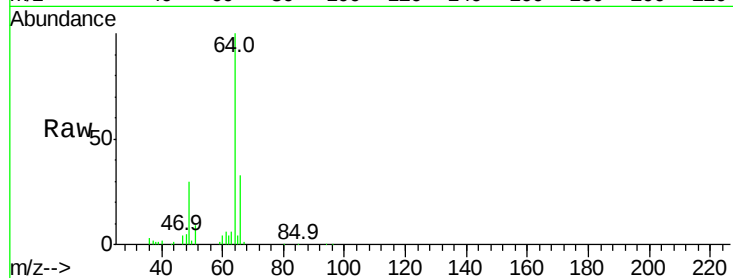
VL1204ABS01

Tgt Ion: 64 Resp: 230267

Ion Ratio Lower Upper

64 100

66 32.6 23.2 34.8



#8

Dichlorotetrafluoroethane

Concen: 9.182 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL032902.D

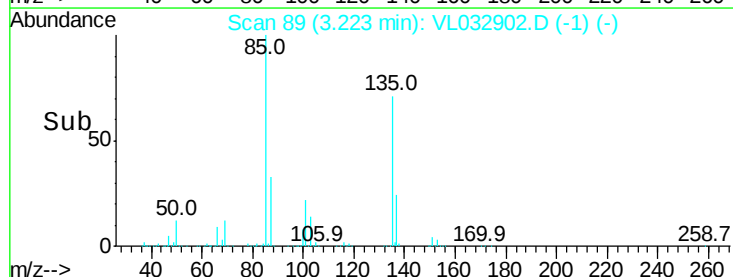
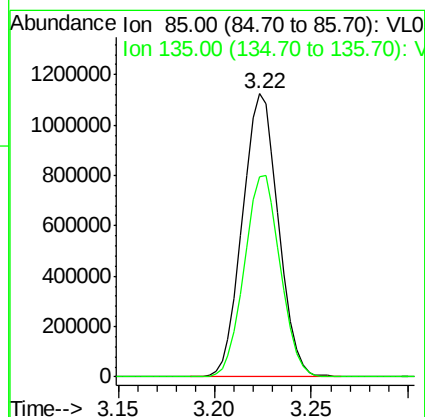
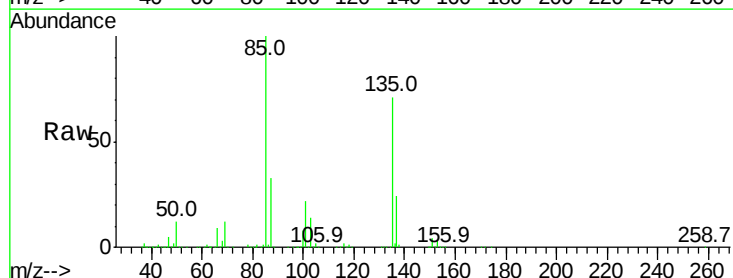
Acq: 5 Dec 2018 7:51

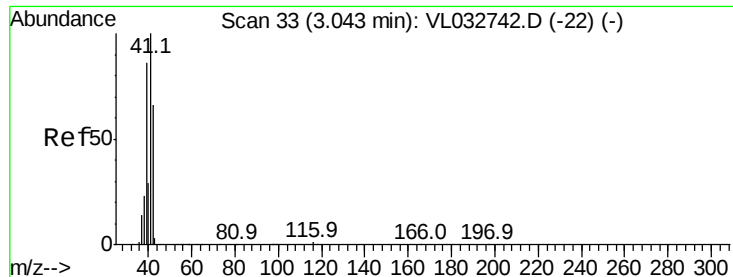
Tgt Ion: 85 Resp: 1450022

Ion Ratio Lower Upper

85 100

135 71.7 53.8 80.8





#9

Propene

Concen: 11.331 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

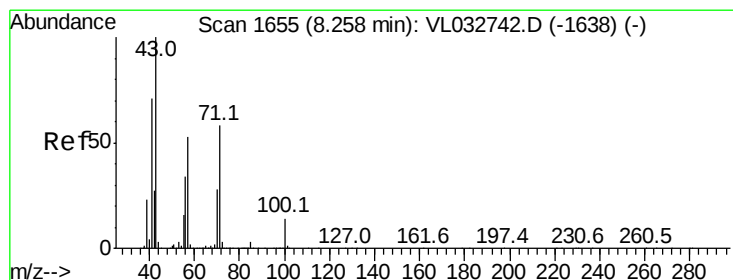
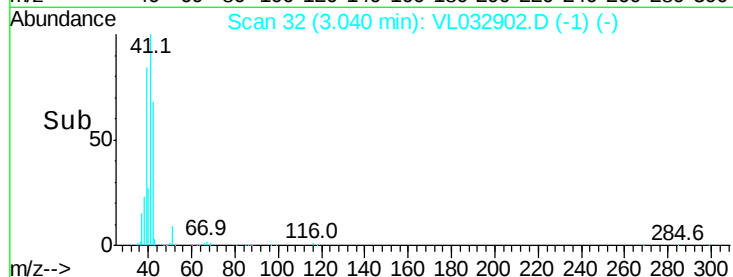
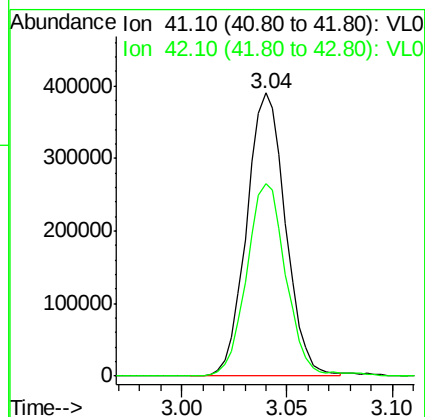
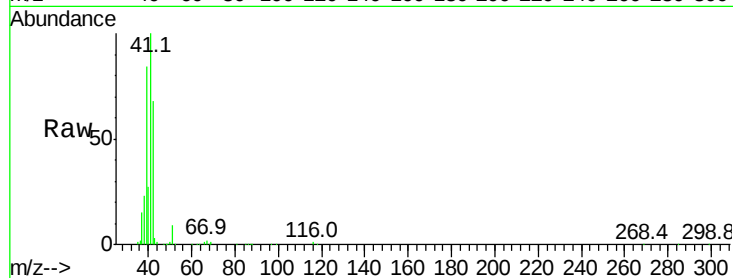
VL1204ABS01

Tgt Ion: 41 Resp: 501201

Ion Ratio Lower Upper

41 100

42 69.0 55.0 82.6



#10

Heptane

Concen: 11.390 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032902.D

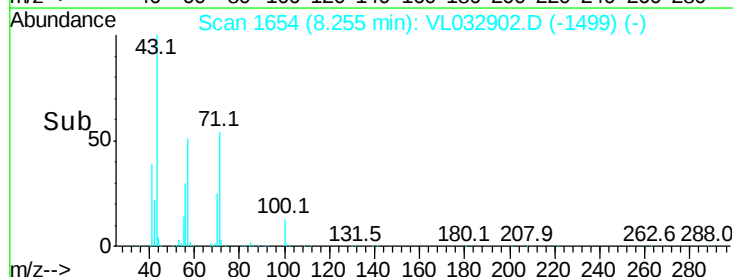
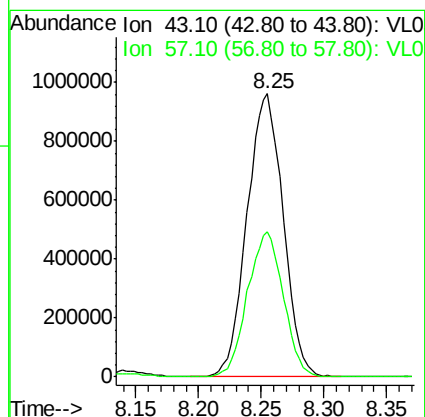
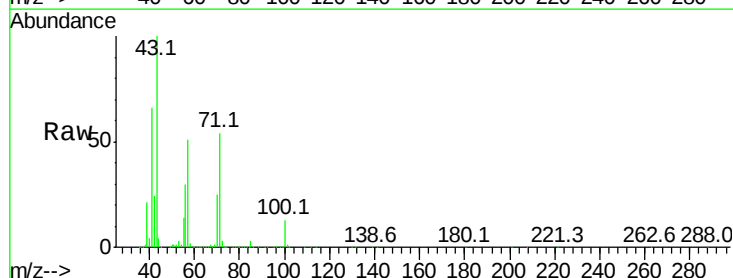
Acq: 5 Dec 2018 7:51

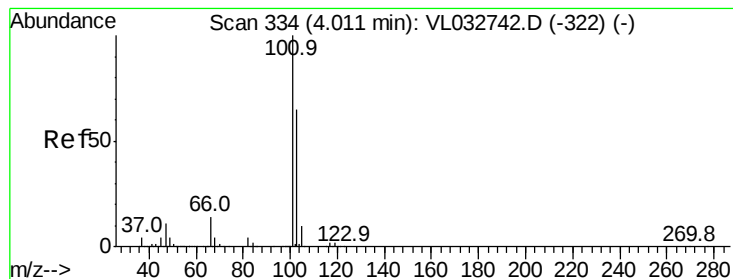
Tgt Ion: 43 Resp: 1923457

Ion Ratio Lower Upper

43 100

57 50.7 41.8 62.8





#11

Trichlorofluoromethane

Concen: 10.737 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

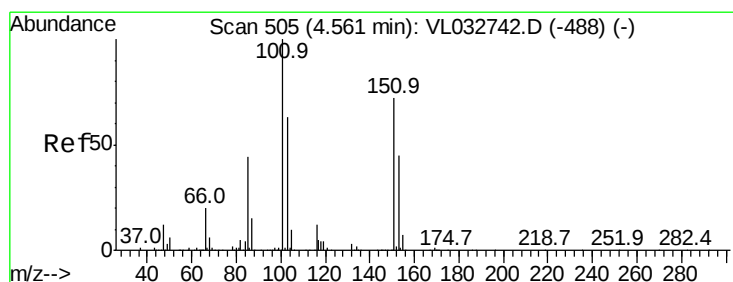
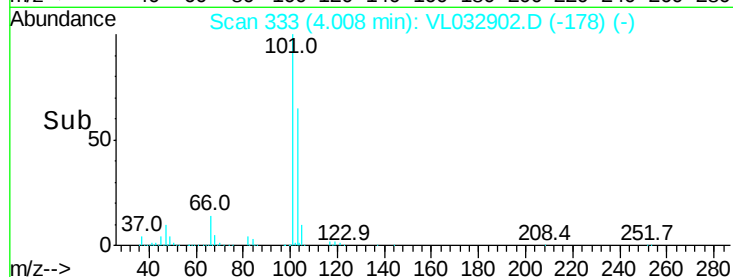
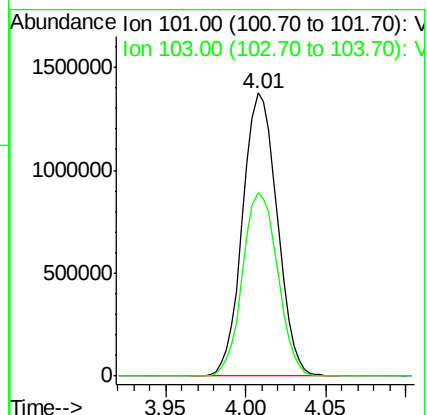
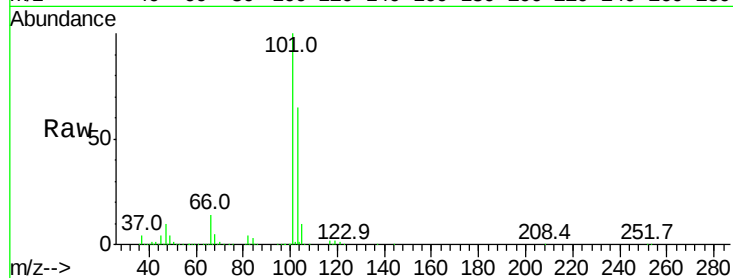
VL1204ABS01

Tgt Ion:101 Resp: 2027858

Ion Ratio Lower Upper

101 100

103 64.9 51.6 77.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.268 ppbv

RT: 4.56 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL032902.D

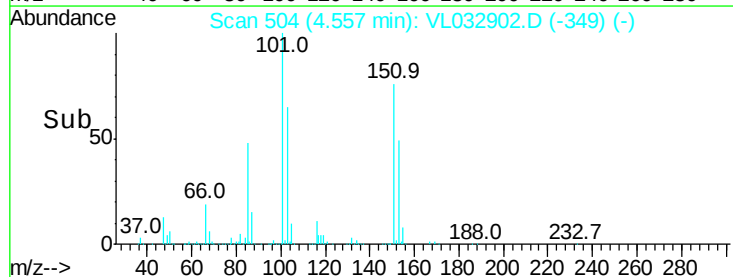
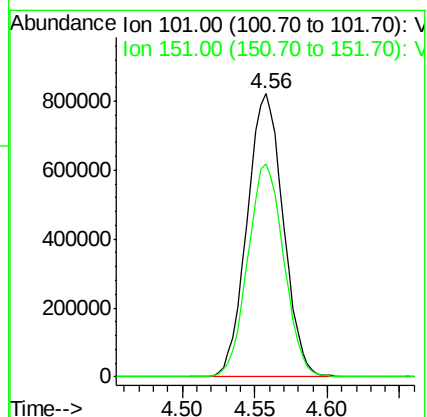
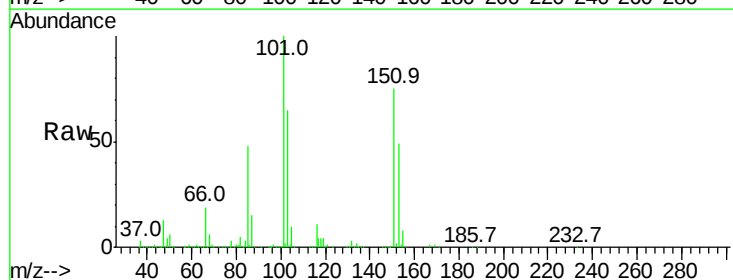
Acq: 5 Dec 2018 7:51

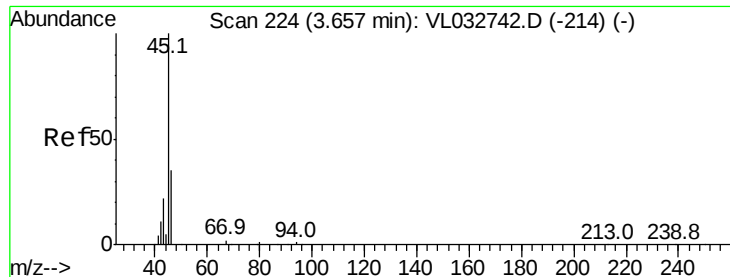
Tgt Ion:101 Resp: 1429810

Ion Ratio Lower Upper

101 100

151 75.0 56.7 85.1





#13

Ethanol

Concen: 8.716 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

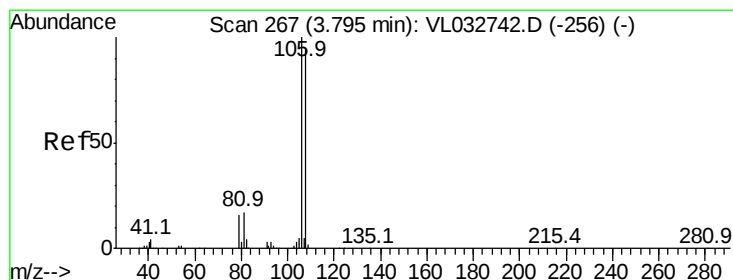
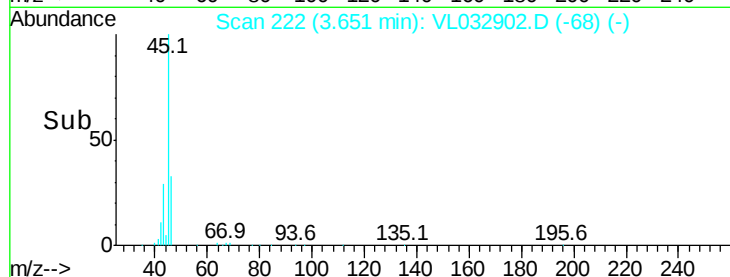
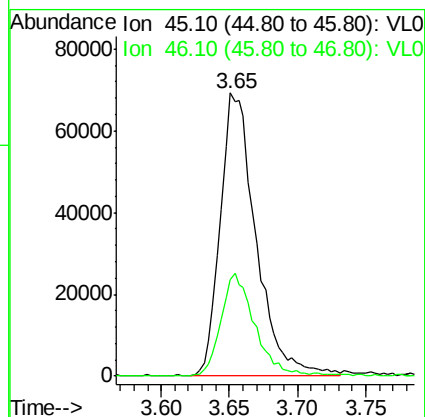
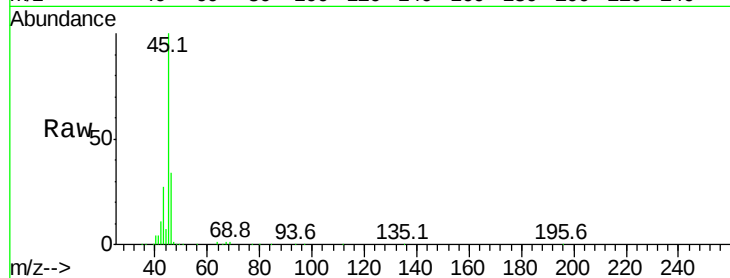
VL1204ABS01

Tgt Ion: 45 Resp: 126276

Ion Ratio Lower Upper

45 100

46 34.9 14.5 57.9



#14

Bromoethene

Concen: 9.692 ppbv

RT: 3.79 min Scan# 266

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

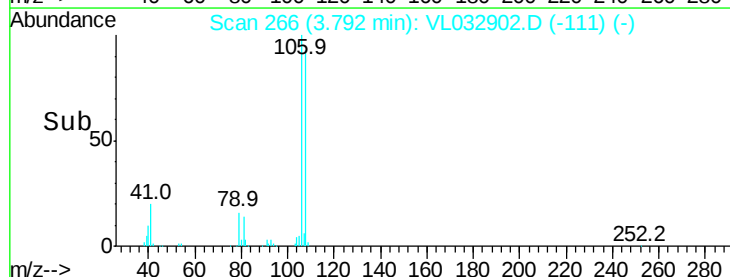
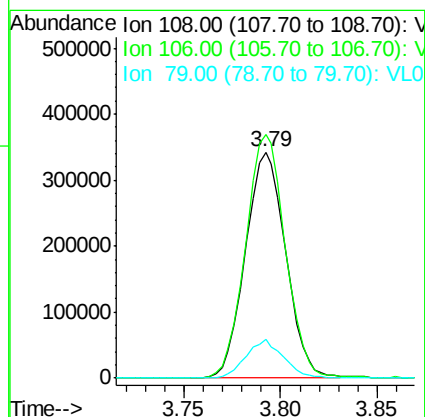
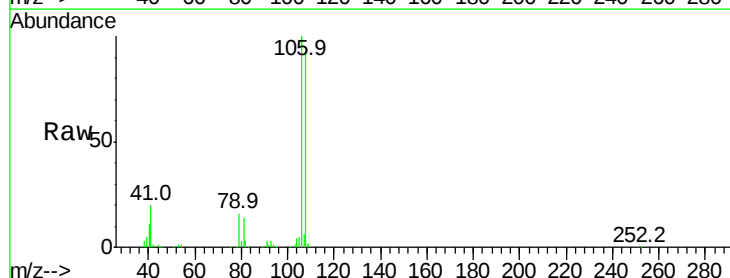
Tgt Ion: 108 Resp: 496050

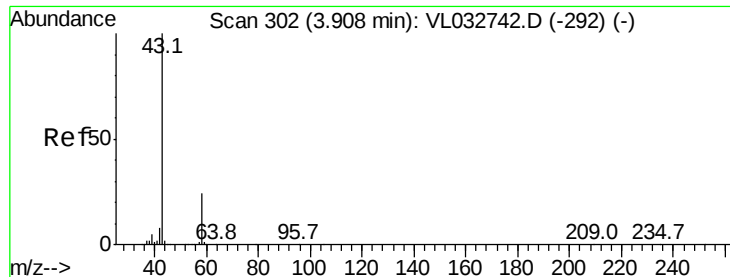
Ion Ratio Lower Upper

108 100

106 107.4 84.9 127.3

79 16.3 14.2 21.4





#15

Acetone

Concen: 8.614 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

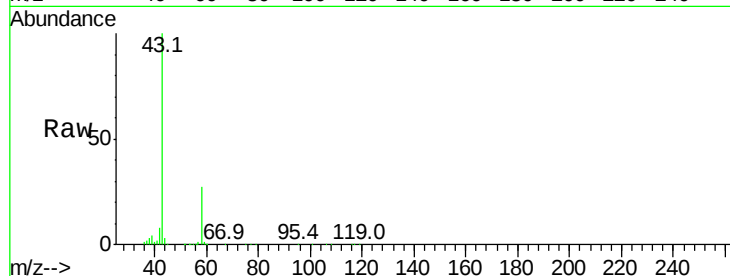
VL1204ABS01

Tgt Ion: 43 Resp: 1096777

Ion Ratio Lower Upper

43 100

58 26.8 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

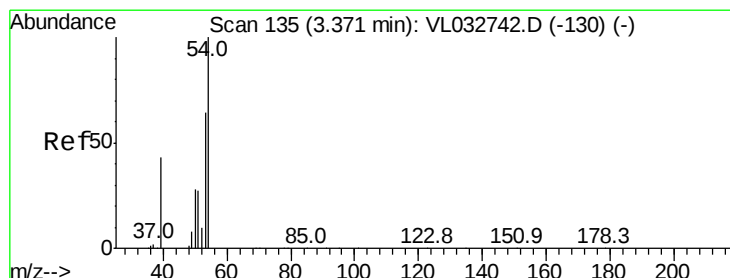
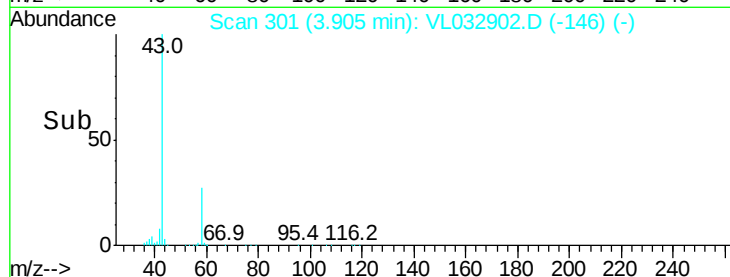
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 10.401 ppbv

RT: 3.37 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL032902.D

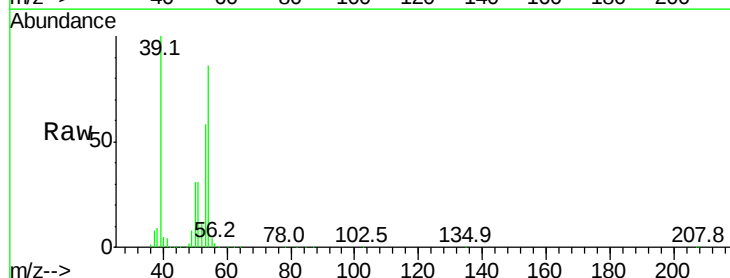
Acq: 5 Dec 2018 7:51

Tgt Ion: 39 Resp: 512862

Ion Ratio Lower Upper

39 100

54 93.4 68.9 103.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

400000

300000

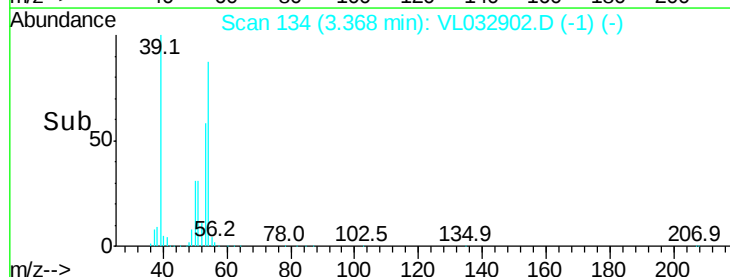
200000

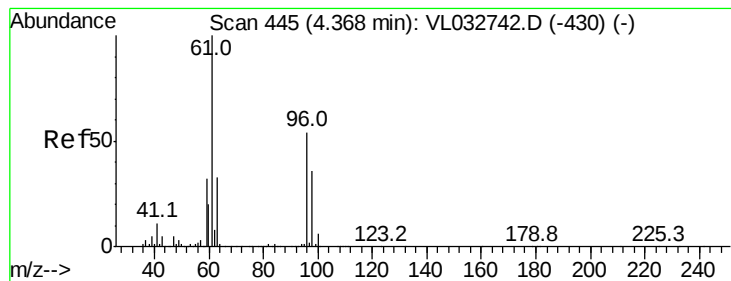
100000

0

3.34 3.36 3.38 3.40 3.42

Time-->





#17

tert-Butyl alcohol

Concen: 8.355 ppbv

RT: 4.36 min Scan# 444

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

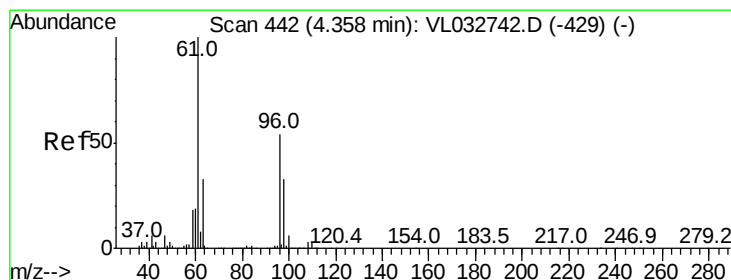
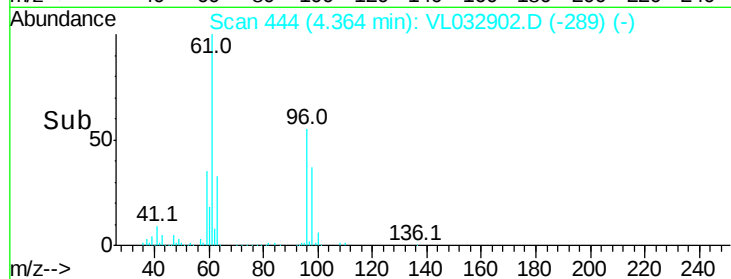
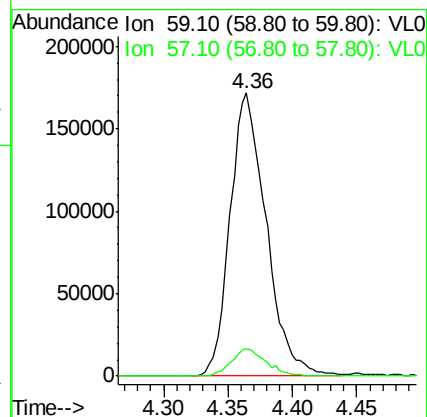
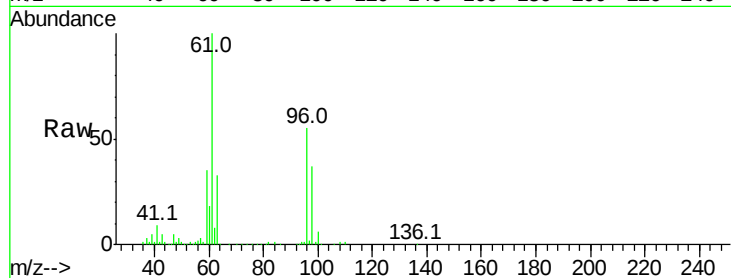
VL1204ABS01

Tgt Ion: 59 Resp: 333641

Ion Ratio Lower Upper

59 100

57 9.4 7.8 11.8



#18

1,1-Dichloroethene

Concen: 7.101 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

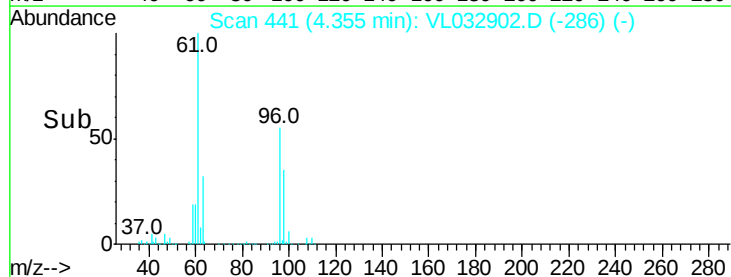
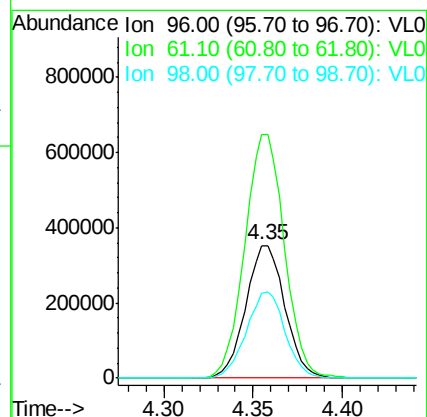
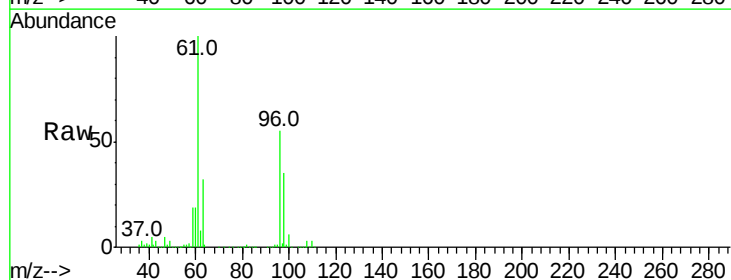
Tgt Ion: 96 Resp: 538670

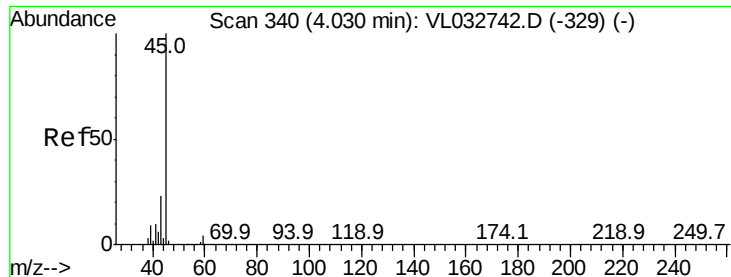
Ion Ratio Lower Upper

96 100

61 183.4 148.5 222.7

98 64.0 48.6 72.8





#19

Isopropyl Alcohol

Concen: 13.580 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

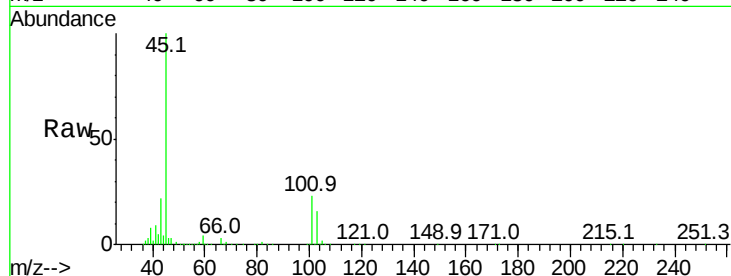
VL1204ABS01

Tgt Ion: 45 Resp: 1151871

Ion Ratio Lower Upper

45 100

58 1.2 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

600000

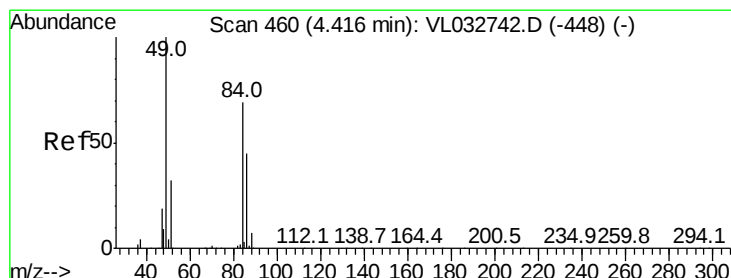
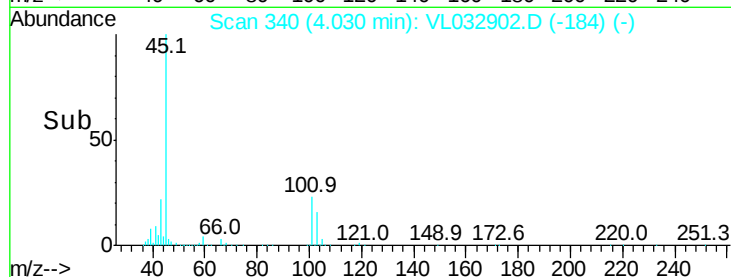
400000

200000

0

Time-->

3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 6.996 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion: 84 Resp: 461164

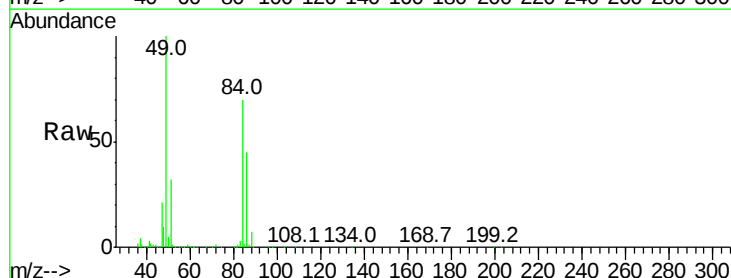
Ion Ratio Lower Upper

84 100

49 143.1 115.8 173.6

51 45.1 36.9 55.3

86 64.7 52.4 78.6



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

4.41

600000

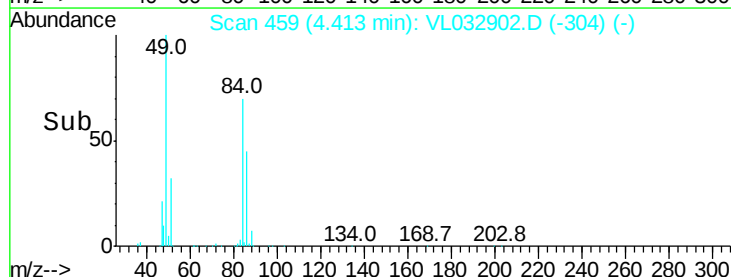
400000

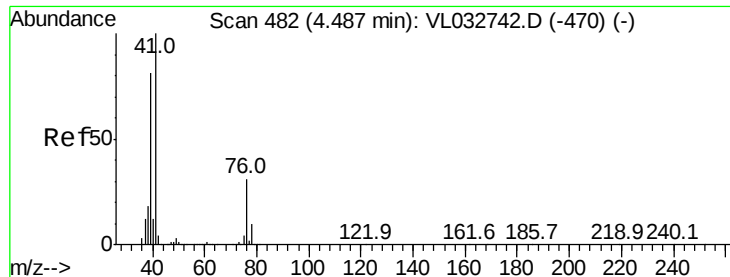
200000

0

Time-->

4.35 4.40 4.45

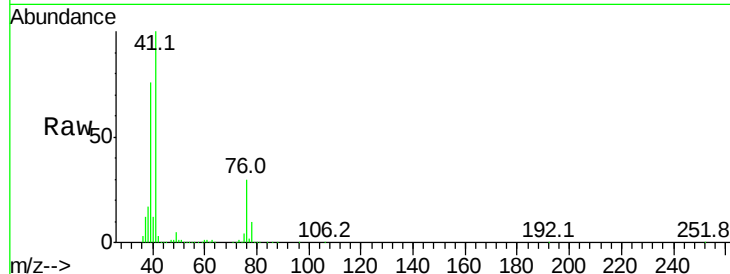




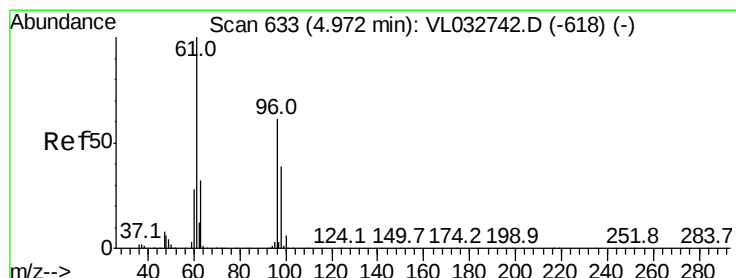
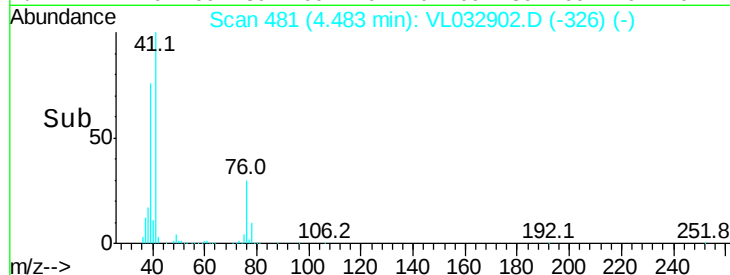
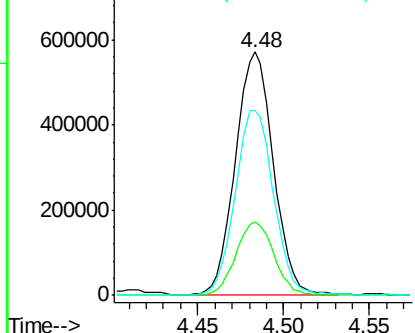
#21
 Allyl Chloride
 Concen: 8.170 ppbv
 RT: 4.48 min Scan# 481
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tgt Ion: 41 Resp: 874172
 Ion Ratio Lower Upper
 41 100
 76 30.5 24.4 36.6
 39 77.2 63.5 95.3

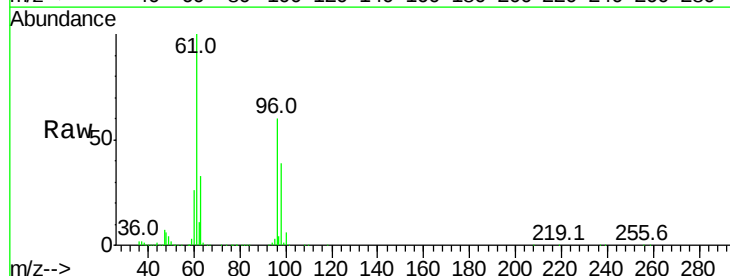


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

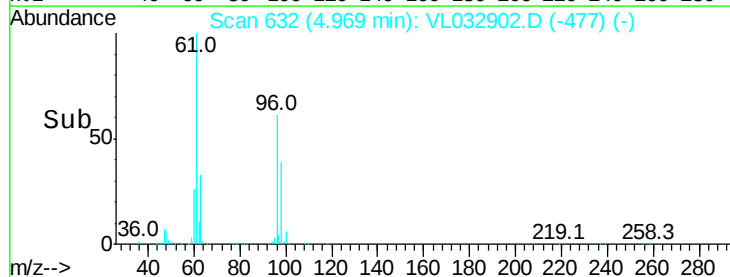
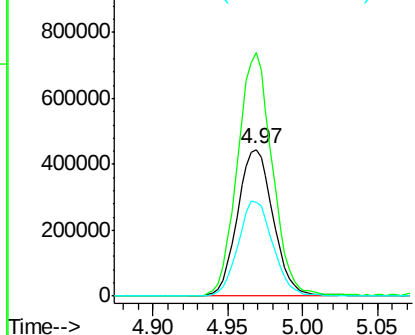


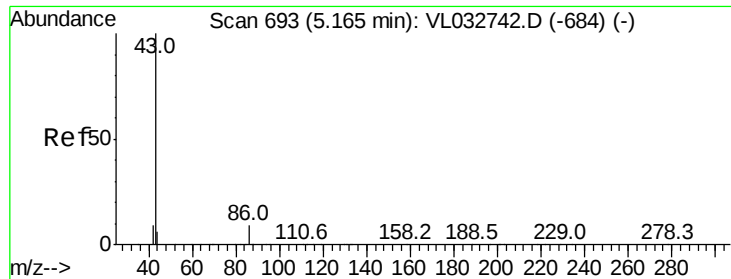
#22
 trans-1,2-Dichloroethene
 Concen: 9.992 ppbv
 RT: 4.97 min Scan# 632
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion: 96 Resp: 740194
 Ion Ratio Lower Upper
 96 100
 61 165.7 130.2 195.2
 98 64.0 50.2 75.2



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





#23

Vinyl Acetate

Concen: 10.214 ppbv

RT: 5.16 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tgt Ion: 43 Resp: 2370597

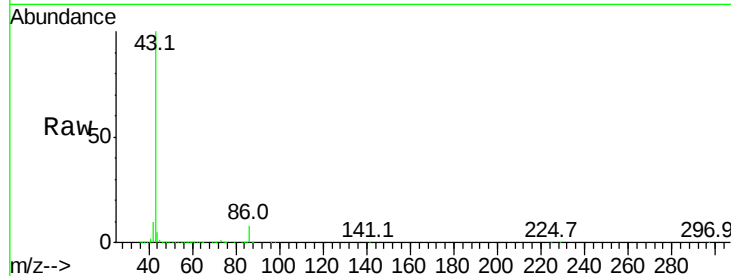
Ion Ratio Lower Upper

43 100

86 8.0 6.2 9.4

42 9.9 7.8 11.6

44 5.3 4.4 6.6

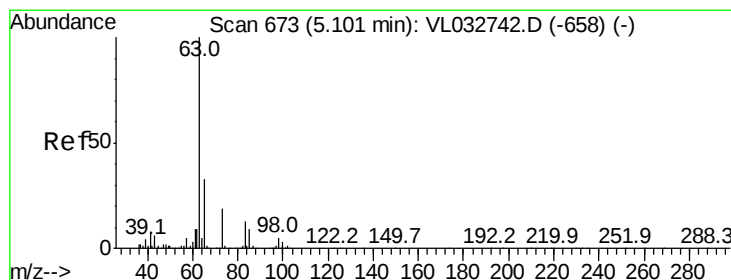
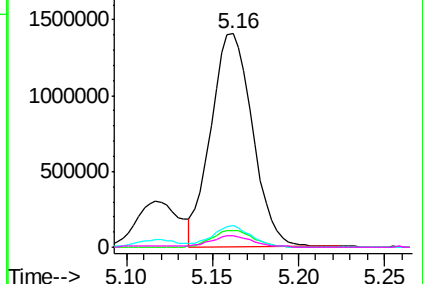
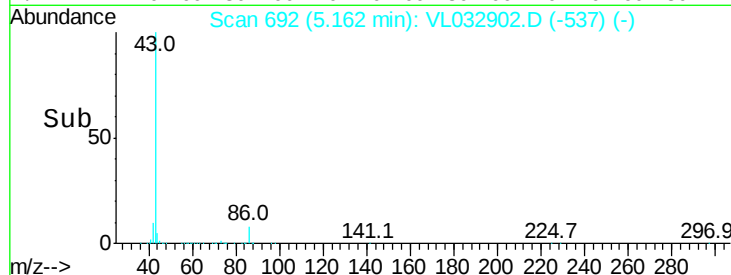


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.409 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

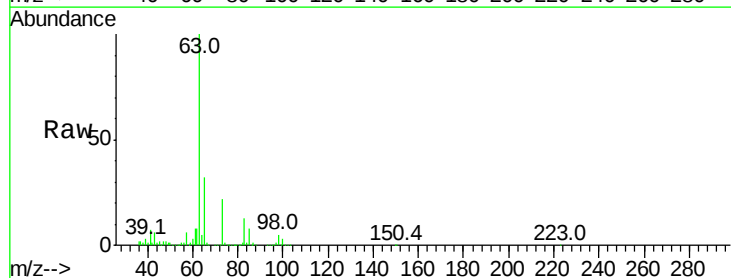
Tgt Ion: 63 Resp: 1736164

Ion Ratio Lower Upper

63 100

98 4.7 2.3 6.8

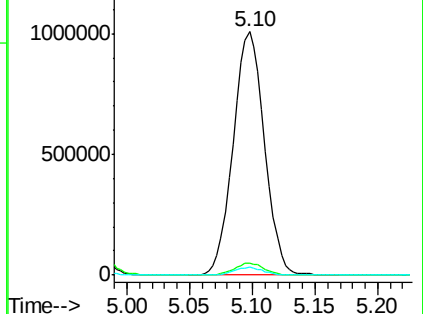
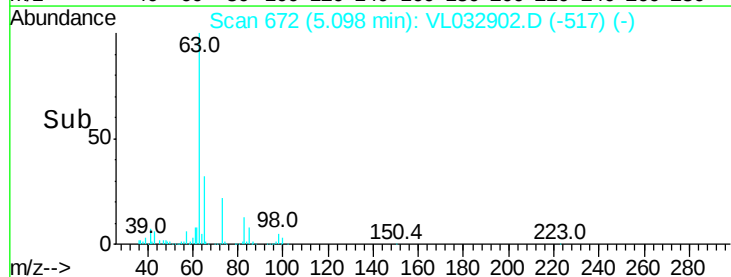
100 3.2 1.4 4.2

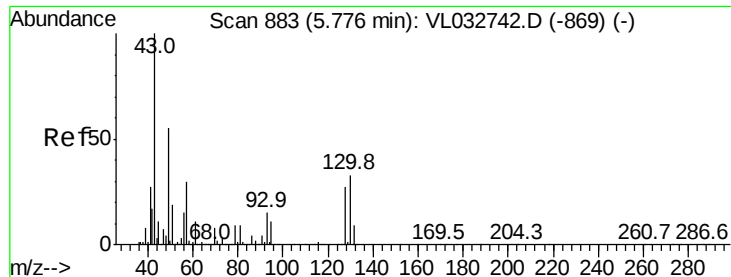


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



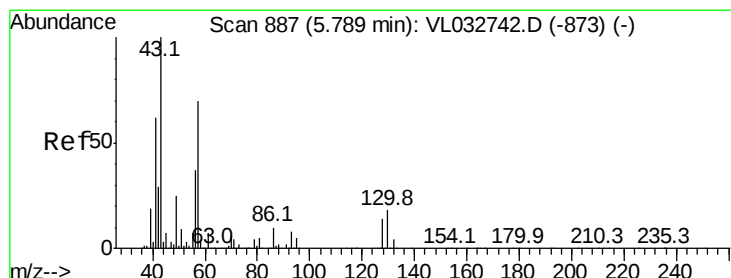
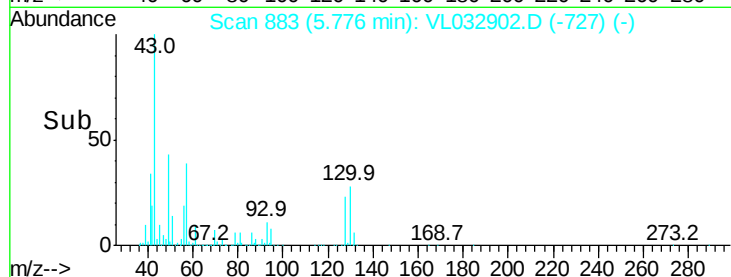
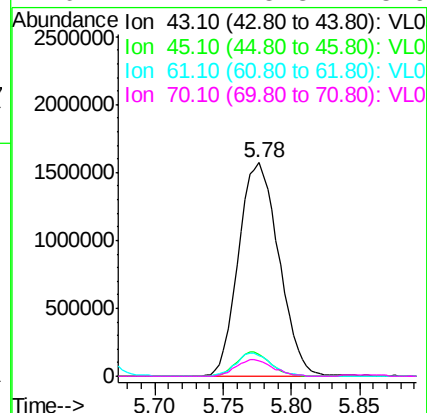
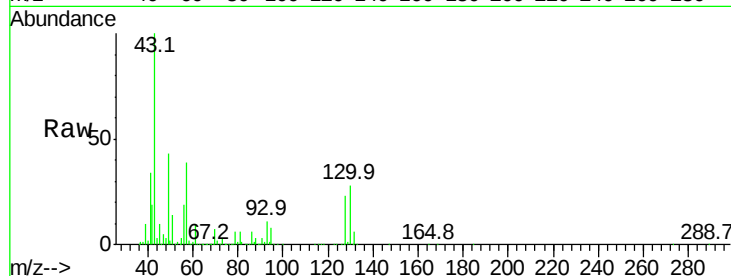


#25
Ethyl Acetate
Concen: 10.911 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tgt Ion: 43 Resp: 3237950

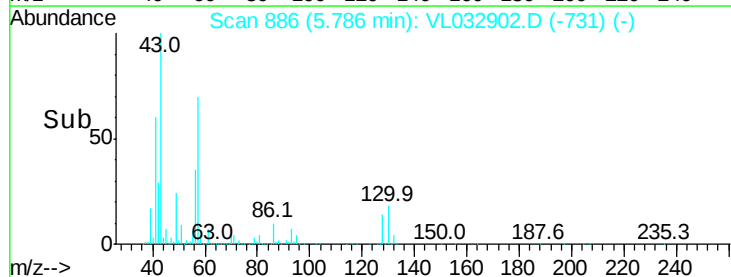
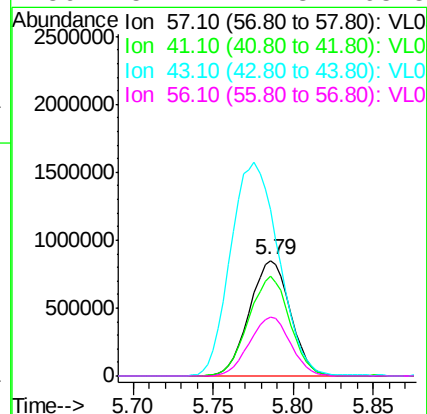
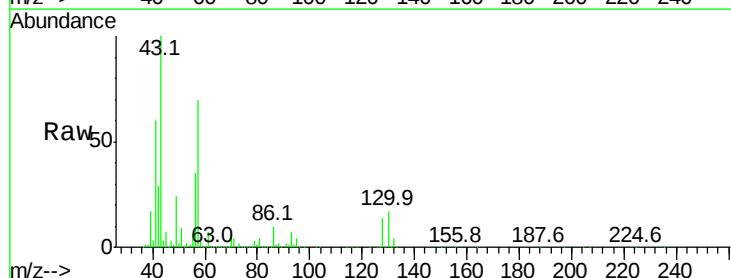
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.6	7.8	11.6
70	7.1	5.8	8.6

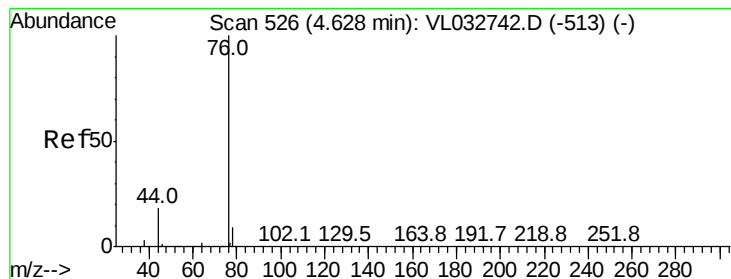


#26
Hexane
Concen: 11.283 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 57 Resp: 1490498

Ion	Ratio	Lower	Upper
57	100		
41	87.0	70.3	105.5
43	217.7	174.0	261.0
56	51.1	42.3	63.5





#27

Carbon Disulfide

Concen: 11.249 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

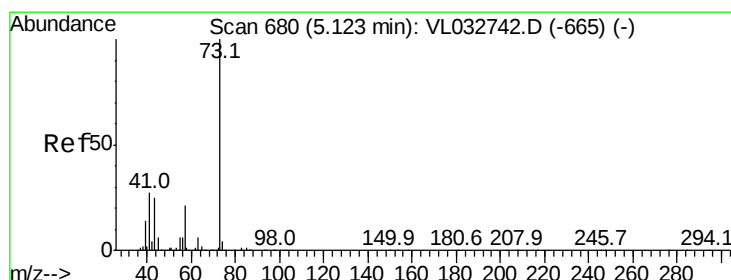
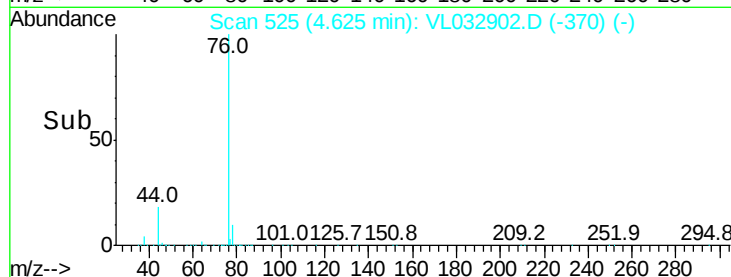
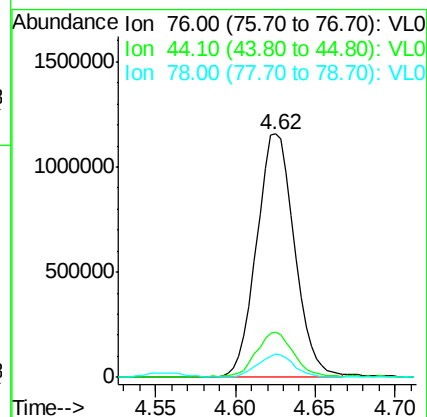
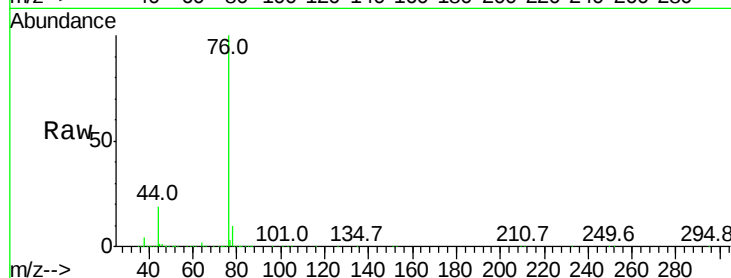
Tgt Ion: 76 Resp: 1884260

Ion	Ratio	Lower	Upper
76	100		
44	18.3	14.4	21.6
78	9.5	7.7	11.5

76 100

44 18.3 14.4 21.6

78 9.5 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 10.649 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032902.D

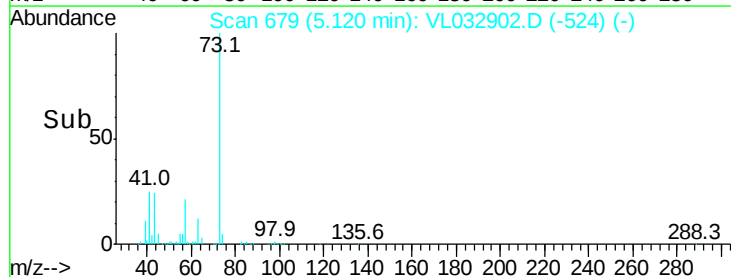
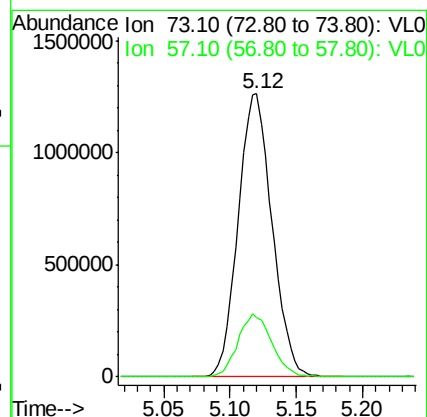
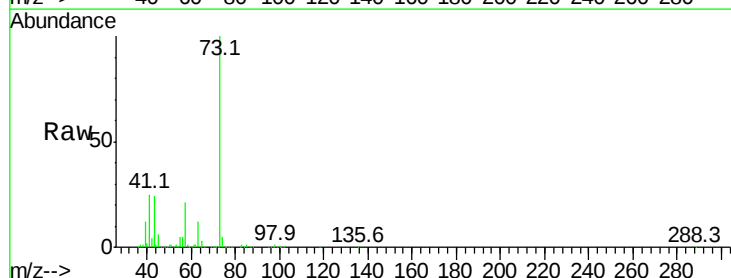
Acq: 5 Dec 2018 7:51

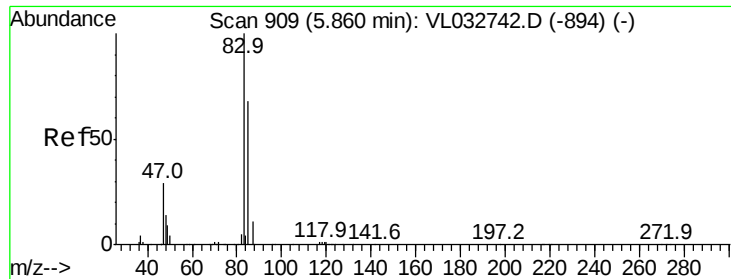
Tgt Ion: 73 Resp: 2243240

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.5	26.3

73 100

57 22.4 17.5 26.3





#29

Chloroform

Concen: 9.872 ppbv

RT: 5.86 min Scan# 908

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

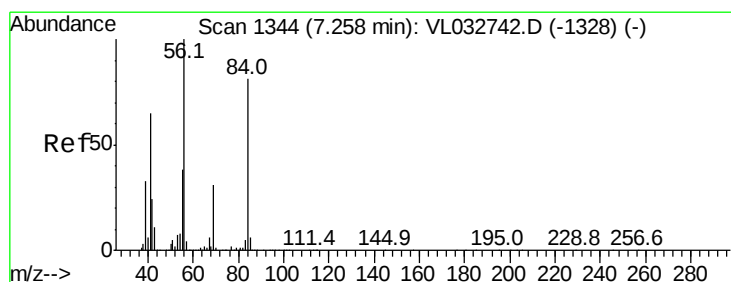
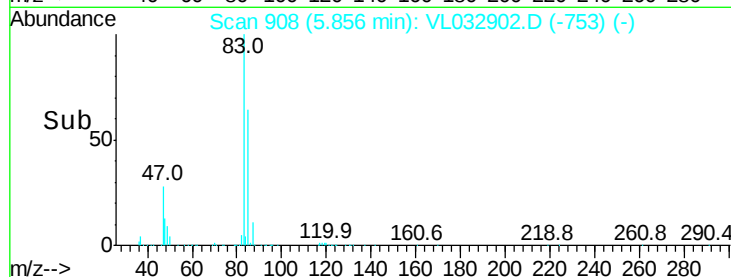
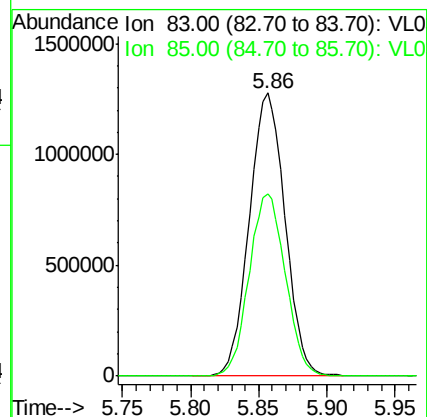
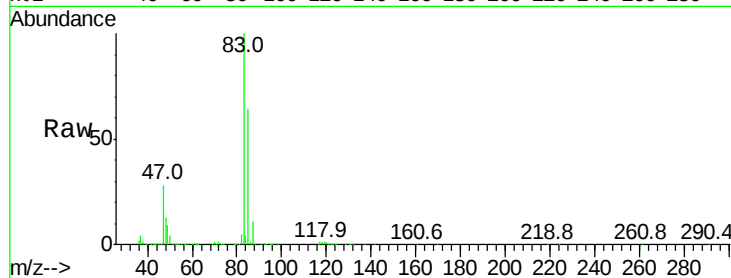
VL1204ABS01

Tgt Ion: 83 Resp: 2324337

Ion Ratio Lower Upper

83 100

85 64.4 54.2 81.4



#30

Cyclohexane

Concen: 11.310 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

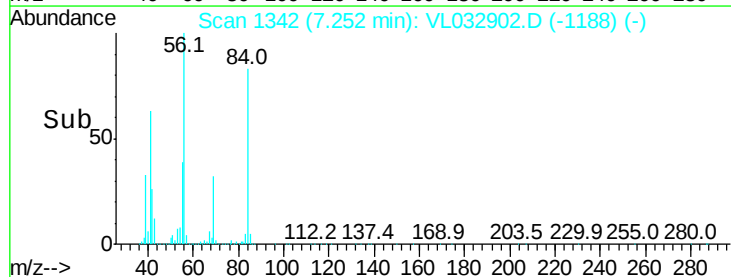
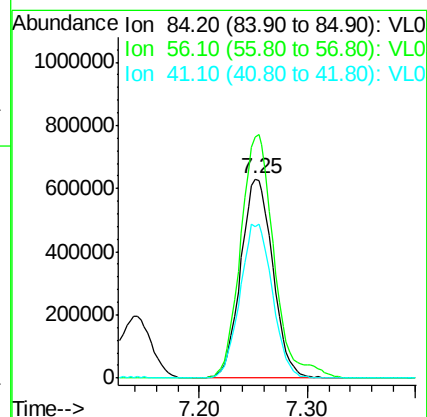
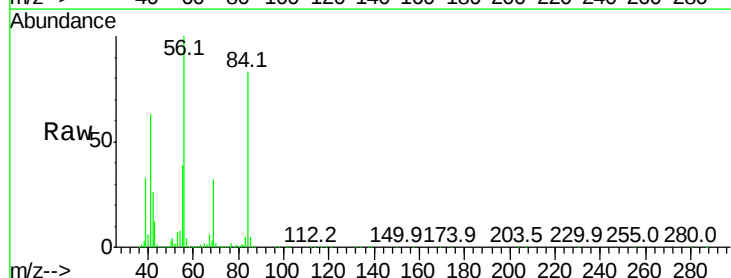
Tgt Ion: 84 Resp: 1306747

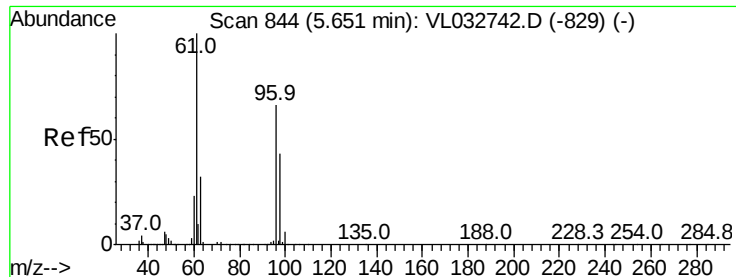
Ion Ratio Lower Upper

84 100

56 127.5 105.0 157.4

41 77.9 65.3 97.9



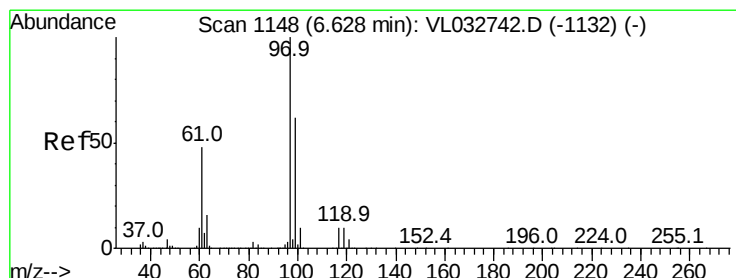
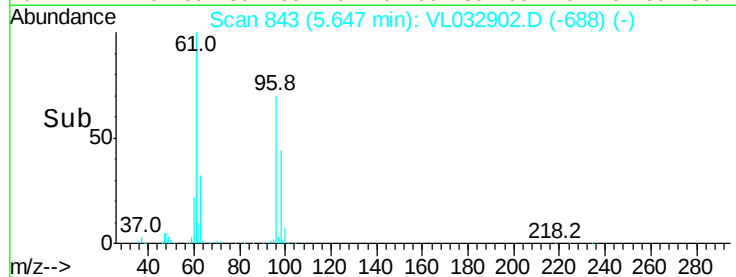
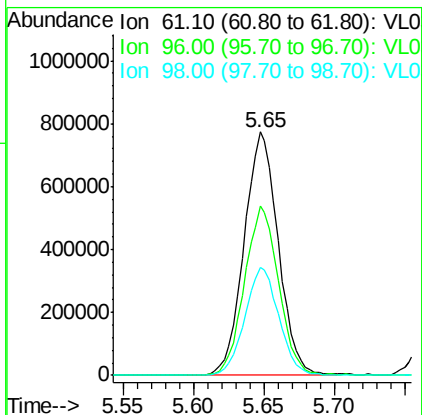
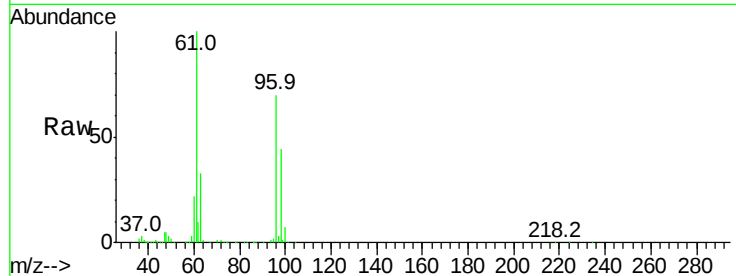


#31

cis-1,2-Dichloroethene
 Concen: 9.890 ppbv
 RT: 5.65 min Scan# 843
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

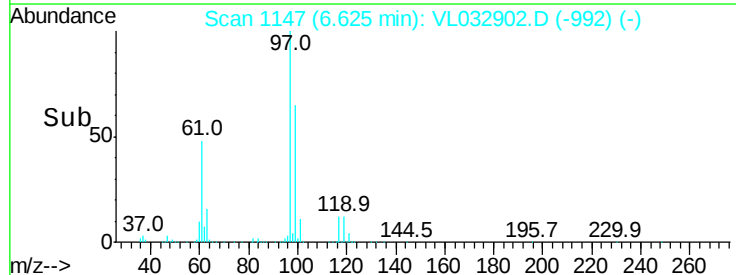
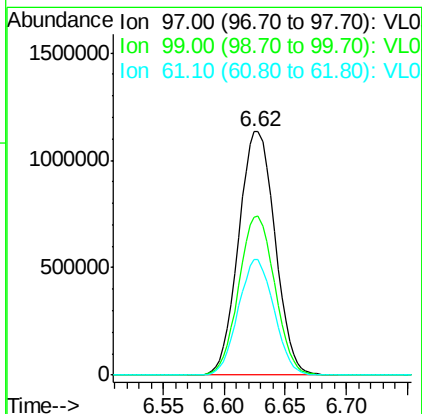
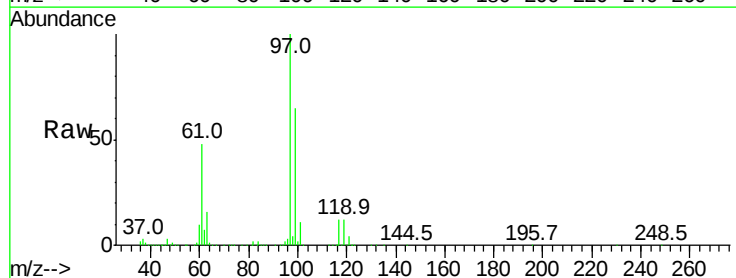
Tgt Ion: 61 Resp: 1313473
 Ion Ratio Lower Upper
 61 100
 96 69.5 53.2 79.8
 98 44.3 34.4 51.6

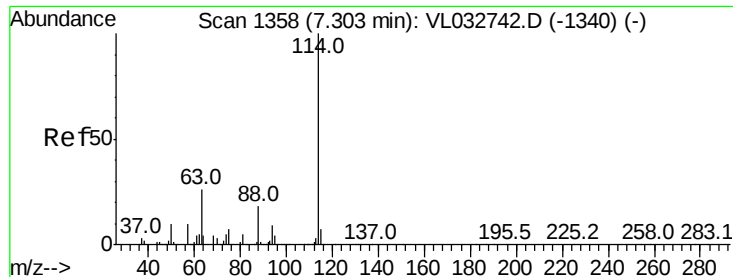


#32

1,1,1-Trichloroethane
 Concen: 9.059 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion: 97 Resp: 2337801
 Ion Ratio Lower Upper
 97 100
 99 64.8 51.8 77.6
 61 46.7 39.7 59.5

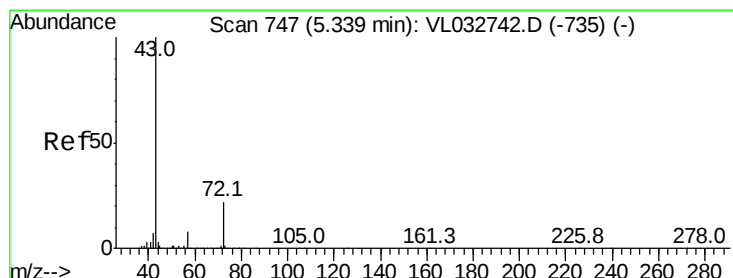
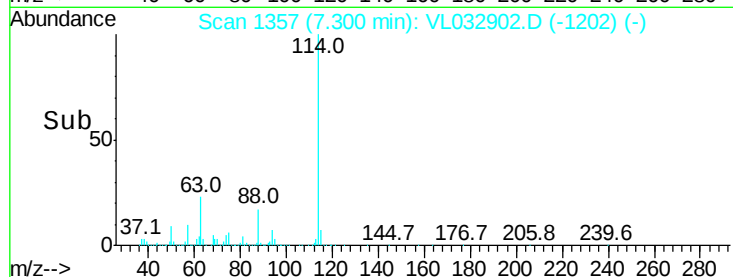
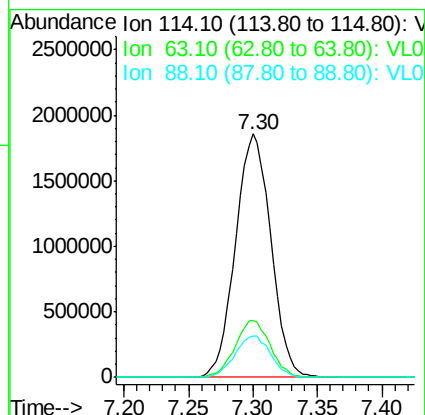
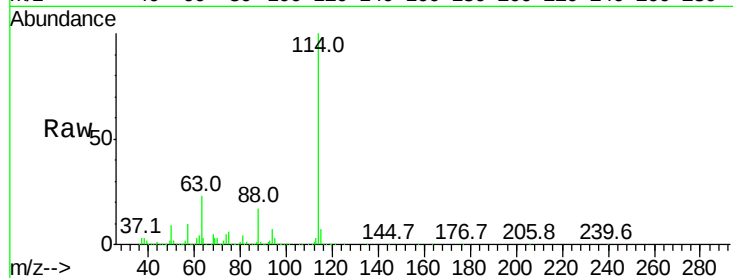




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

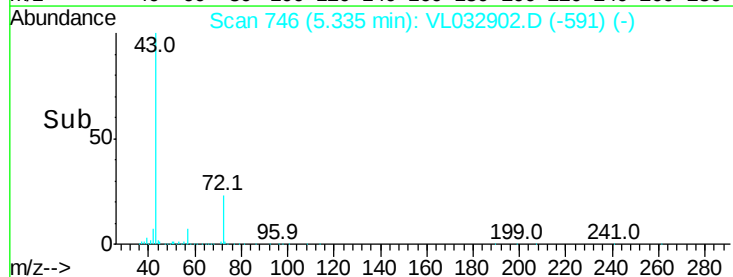
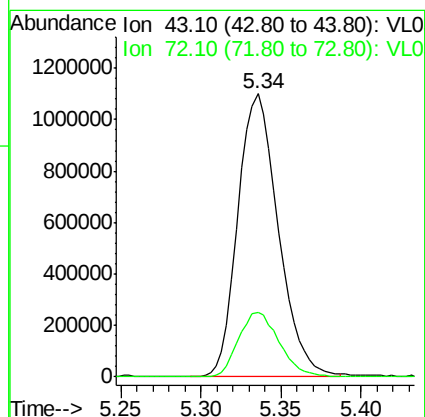
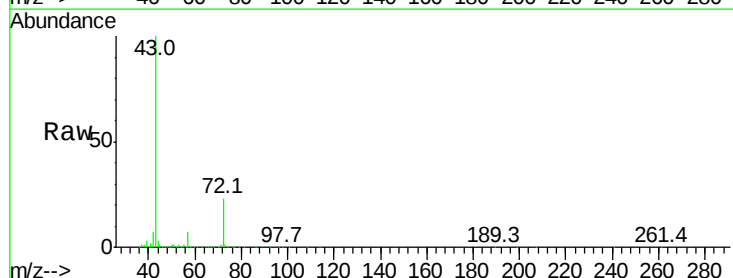
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

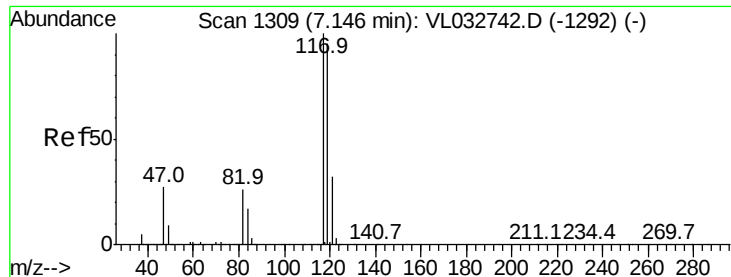
Tgt Ion:114 Resp: 3546972
 Ion Ratio Lower Upper
 114 100
 63 23.6 20.9 31.3
 88 17.2 14.4 21.6



#34
 2-Butanone
 Concen: 10.253 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion: 43 Resp: 1886305
 Ion Ratio Lower Upper
 43 100
 72 23.3 18.4 27.6





#35

Carbon Tetrachloride

Concen: 8.688 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

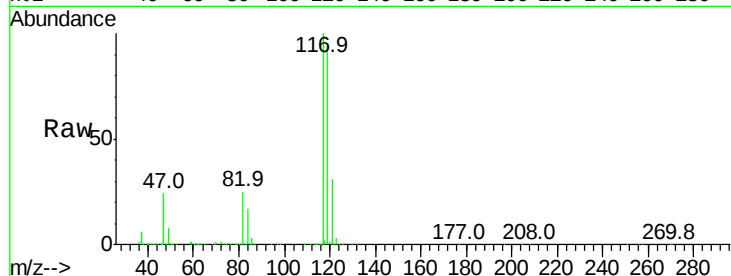
Tgt Ion: 117 Resp: 2477295

Ion Ratio Lower Upper

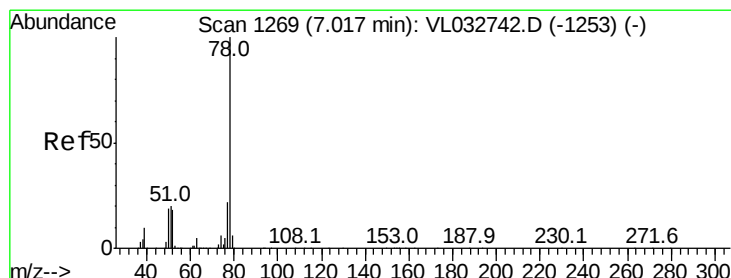
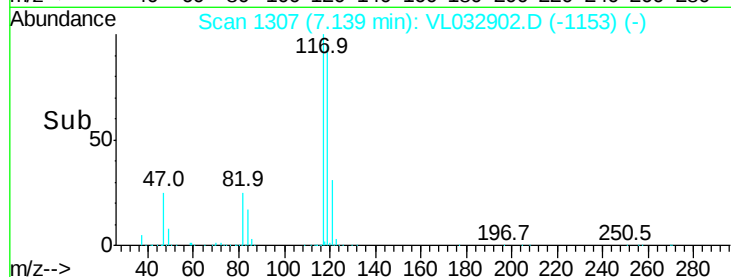
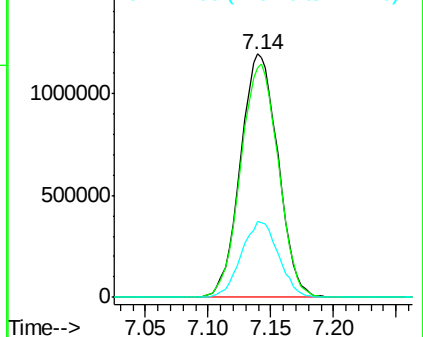
117 100

119 94.2 76.1 114.1

121 31.3 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.923 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

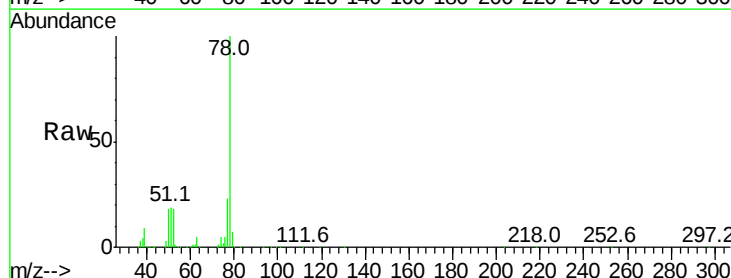
Tgt Ion: 78 Resp: 3085330

Ion Ratio Lower Upper

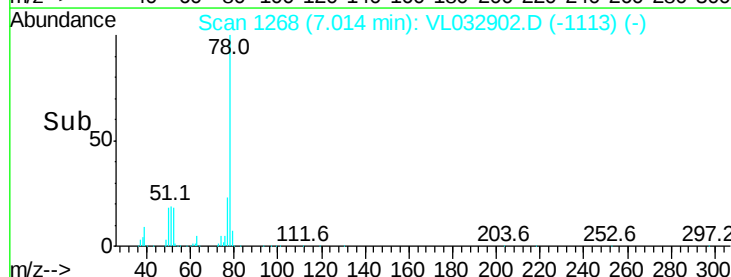
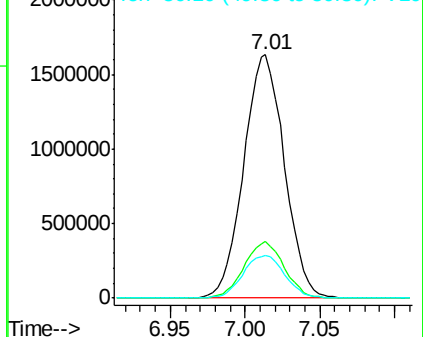
78 100

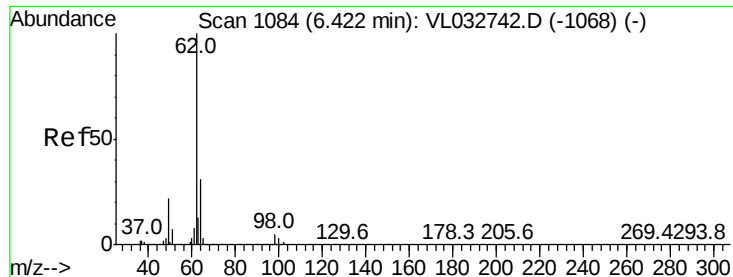
77 23.1 17.8 26.8

50 17.6 15.4 23.0



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: 8.988 ppbv

RT: 6.42 min Scan# 1083

Delta R.T. -0.00 min

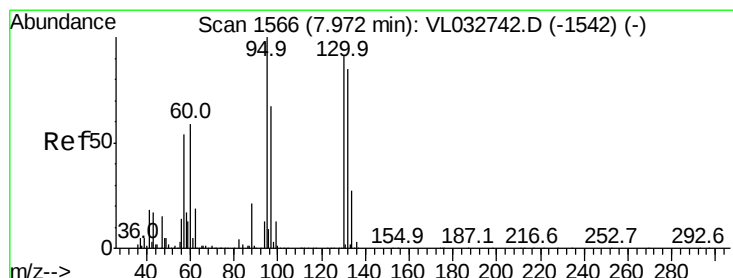
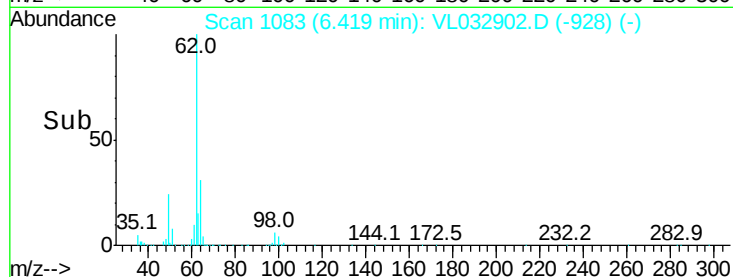
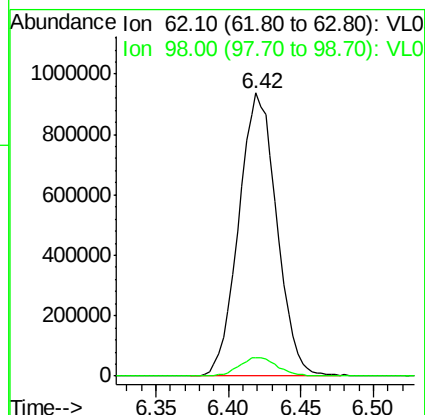
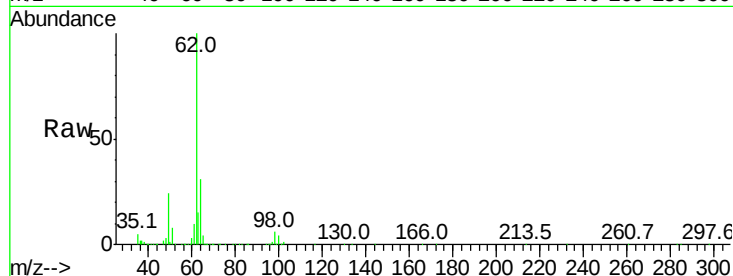
Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tgt Ion: 62 Resp: 1708866

Ion	Ratio	Lower	Upper
62	100		
98	6.7	4.5	6.7



#38

Trichloroethene

Concen: 10.888 ppbv

RT: 7.97 min Scan# 1565

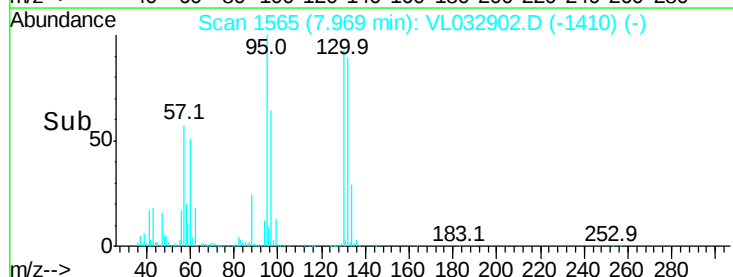
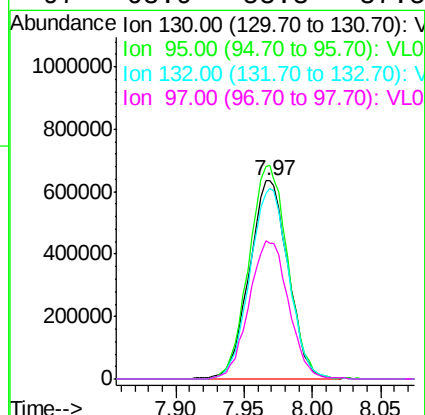
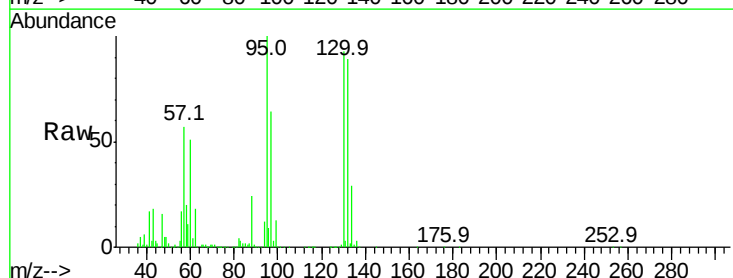
Delta R.T. -0.00 min

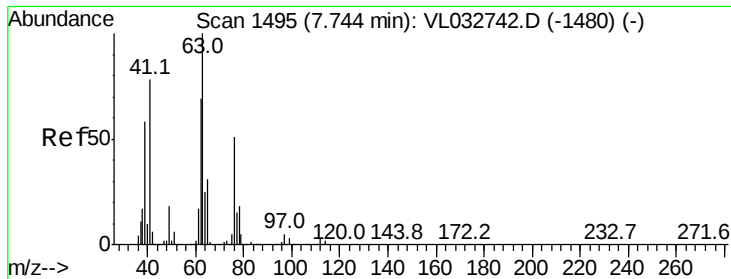
Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion: 130 Resp: 1244542

Ion	Ratio	Lower	Upper
130	100		
95	107.9	87.7	131.5
132	96.3	74.6	111.8
97	68.9	58.3	87.5





#39

1,2-Dichloropropane

Concen: 10.925 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

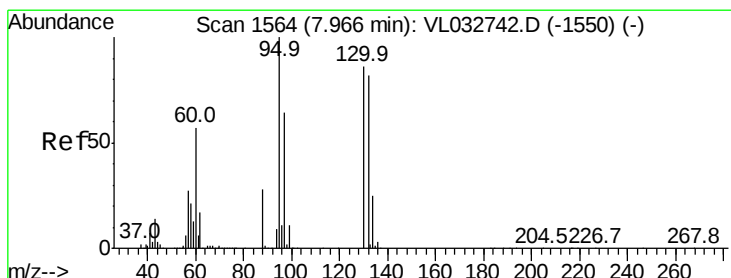
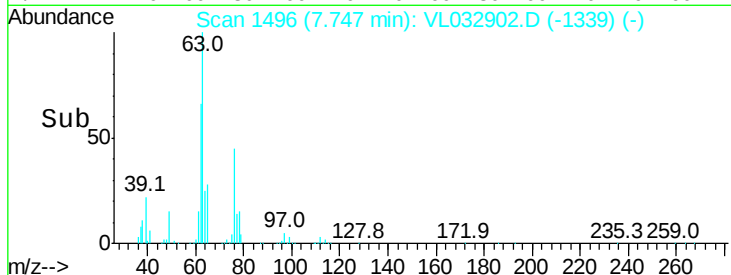
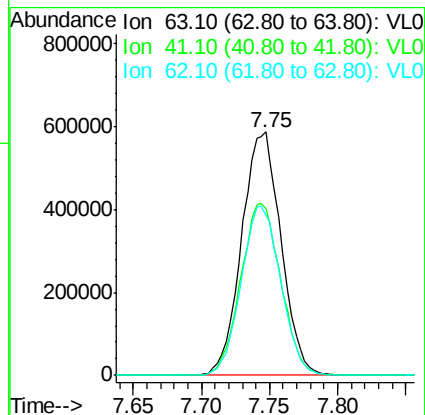
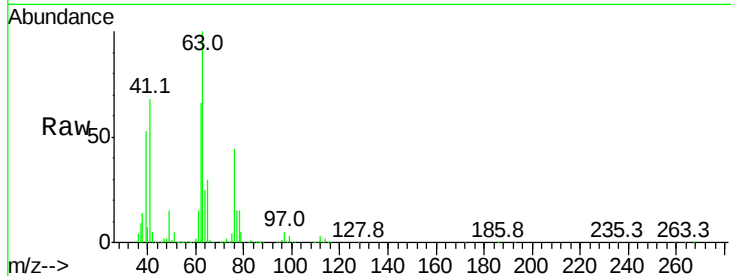
Tgt Ion: 63 Resp: 1175710

Ion Ratio Lower Upper

63 100

41 68.4 62.0 93.0

62 65.7 55.4 83.2



#40

1,4-Dioxane

Concen: 11.686 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion: 88 Resp: 449184

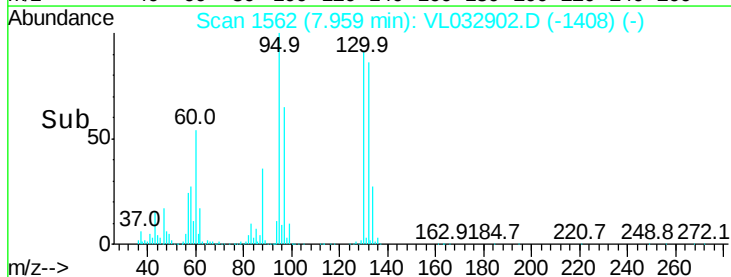
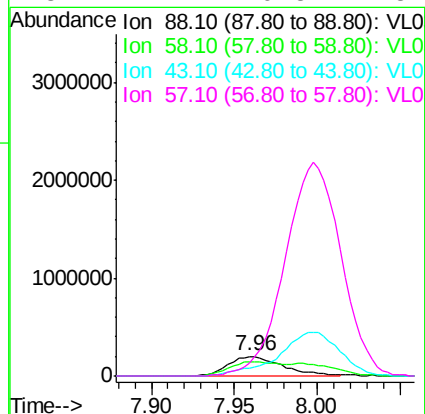
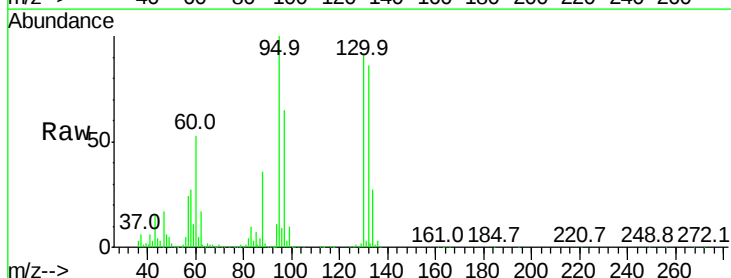
Ion Ratio Lower Upper

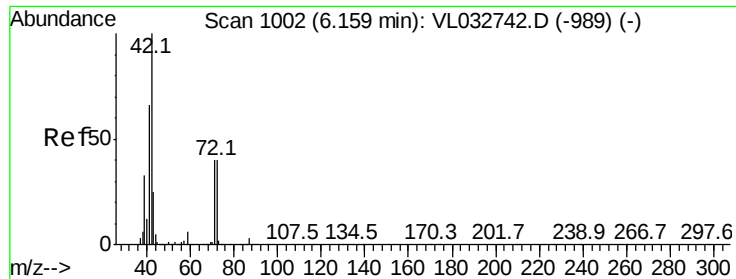
88 100

58 124.9 105.3 157.9

43 257.6 226.1 339.1

57 1147.7 1015.2 1522.8





#41

Tetrahydrofuran

Concen: 11.906 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

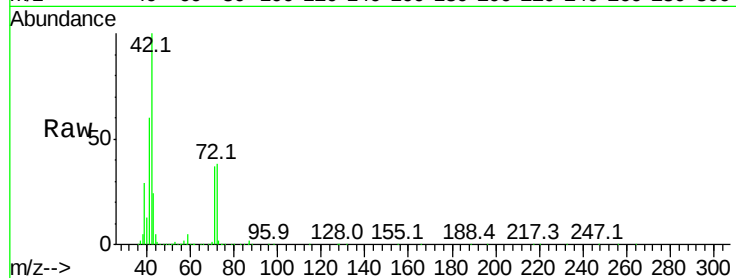
Tgt Ion: 42 Resp: 1256420

Ion Ratio Lower Upper

42 100

72 39.0 32.4 48.6

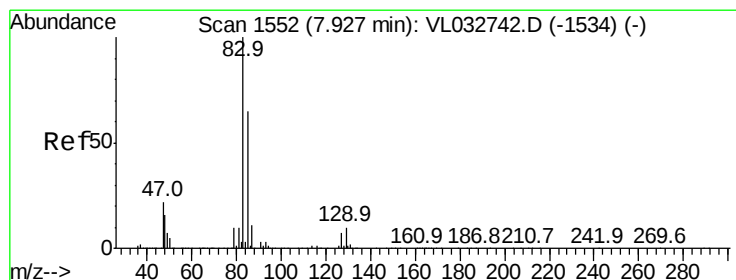
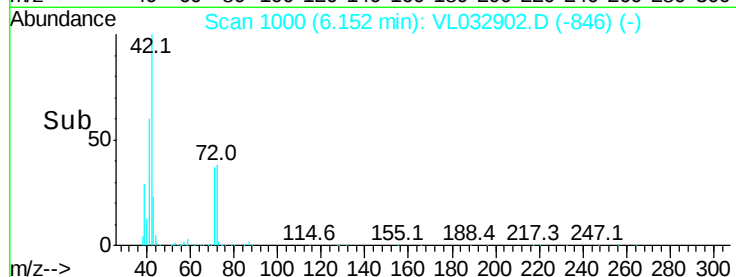
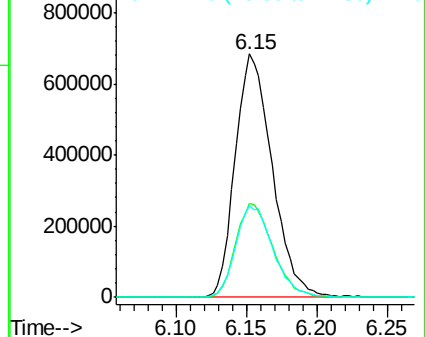
71 38.2 31.6 47.4



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.794 ppbv

RT: 7.93 min Scan# 1552

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

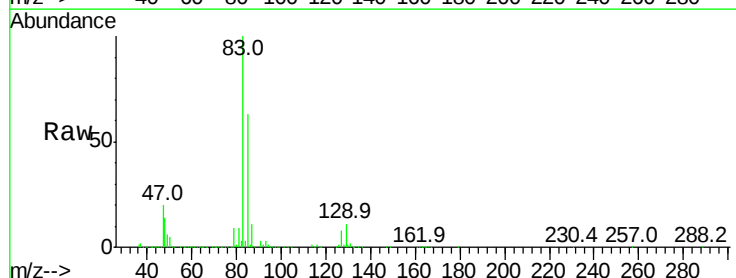
Tgt Ion: 83 Resp: 2524312

Ion Ratio Lower Upper

83 100

85 63.3 51.8 77.8

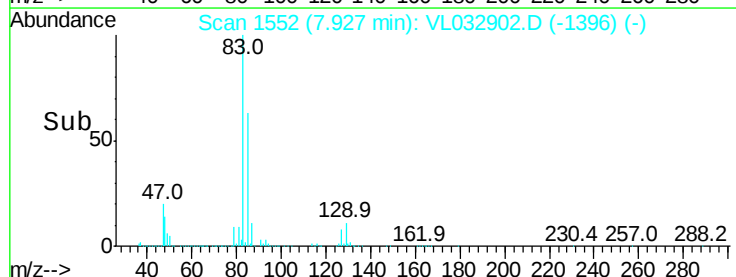
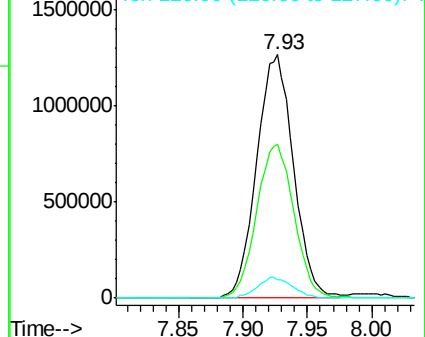
127 7.8 5.9 8.9

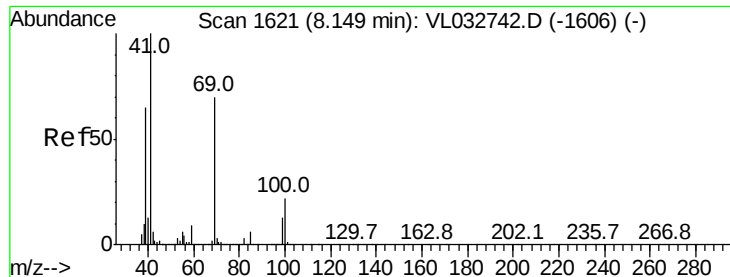


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 11.583 ppbv

RT: 8.15 min Scan# 1620

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

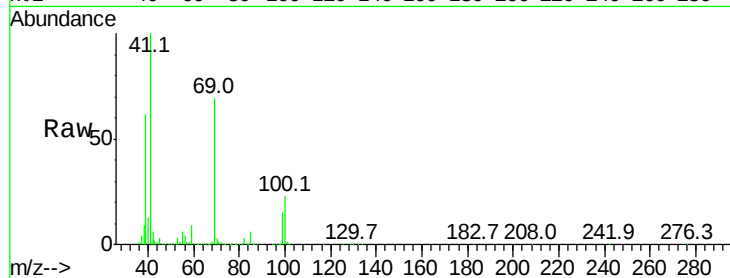
Tgt Ion: 69 Resp: 1221406

Ion Ratio Lower Upper

69 100

41 148.1 115.0 172.4

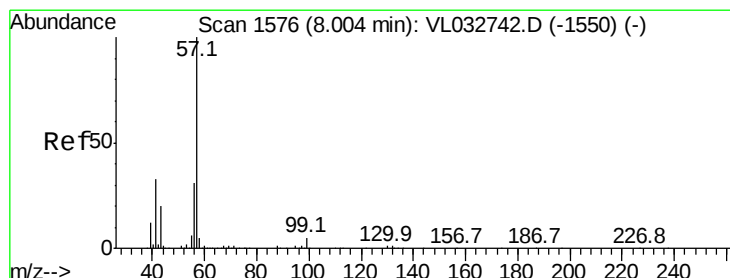
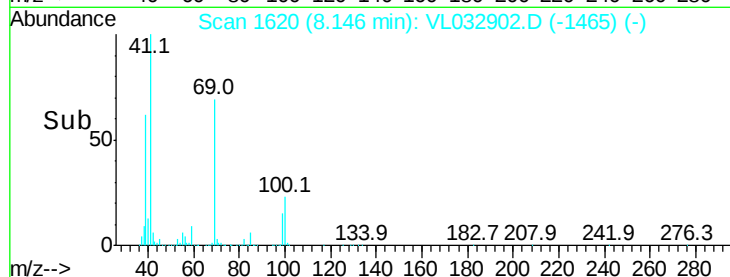
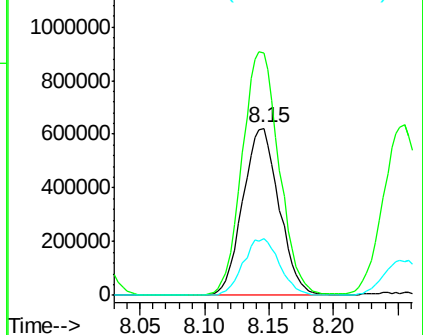
100 34.1 25.4 38.0



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 10.912 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

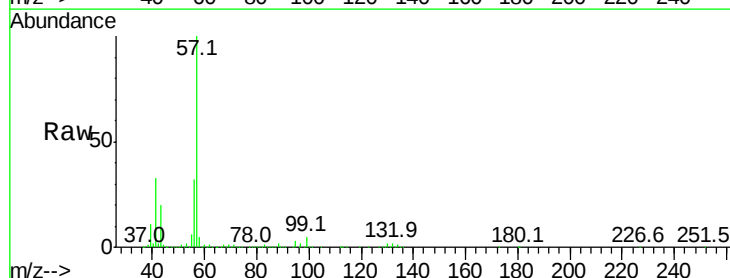
Tgt Ion: 57 Resp: 5150492

Ion Ratio Lower Upper

57 100

41 31.1 26.6 39.8

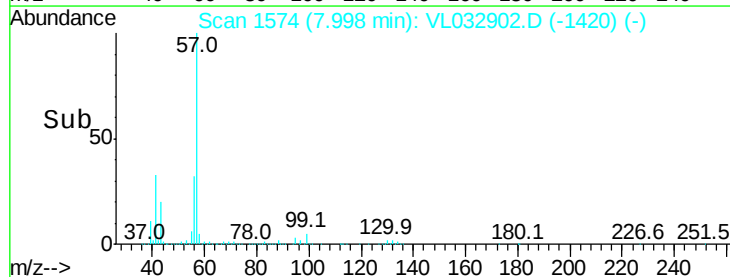
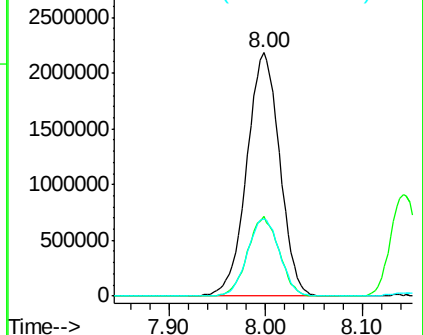
56 31.2 24.8 37.2

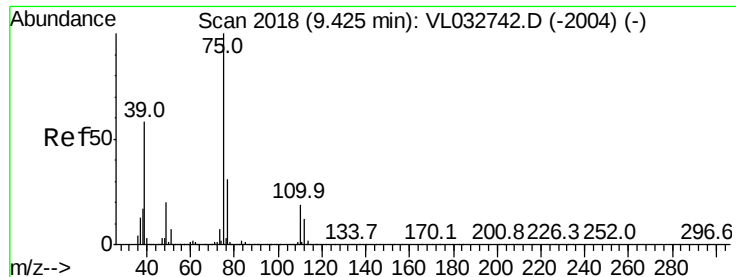


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

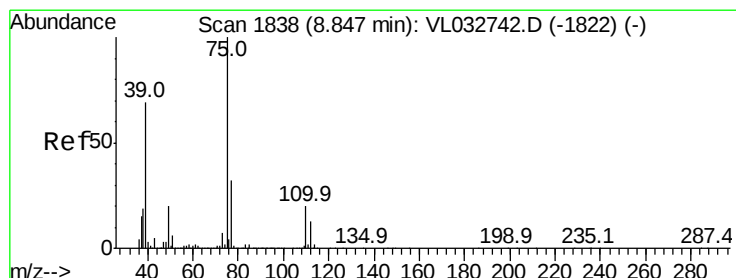
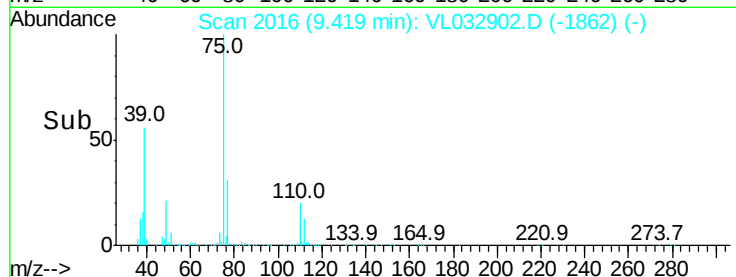
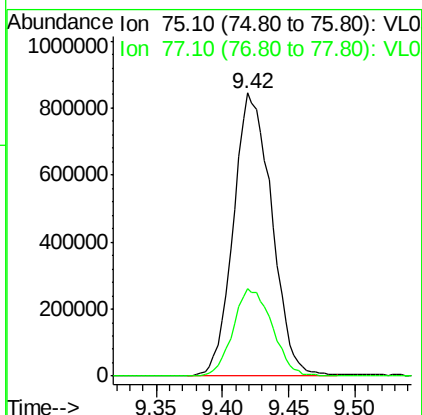
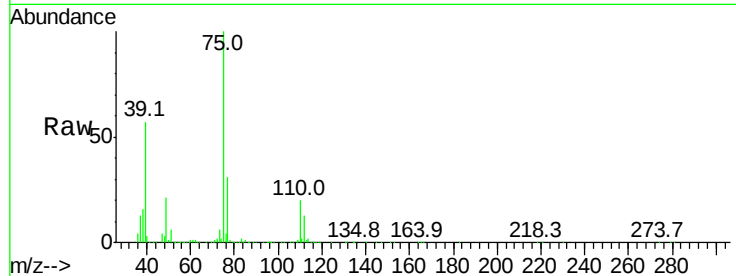




#45
t-1,3-Dichloropropene
Concen: 11.967 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

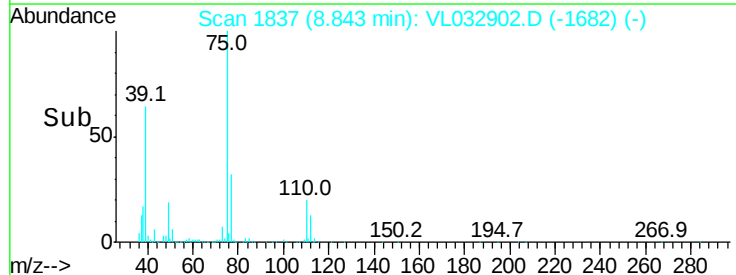
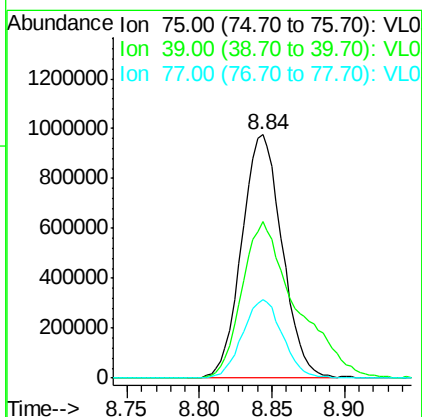
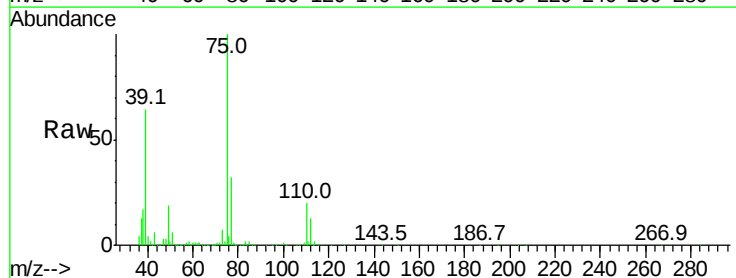
Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

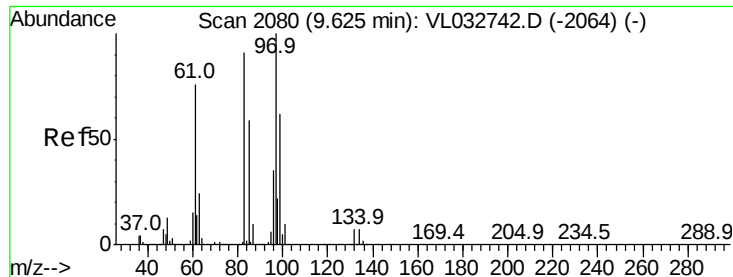
Tgt Ion: 75 Resp: 1693279
Ion Ratio Lower Upper
75 100
77 30.7 24.6 36.8



#46
cis-1,3-Dichloropropene
Concen: 11.062 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 75 Resp: 1891024
Ion Ratio Lower Upper
75 100
39 64.3 55.2 82.8
77 32.4 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 10.019 ppbv

RT: 9.62 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tgt Ion: 97 Resp: 1274878

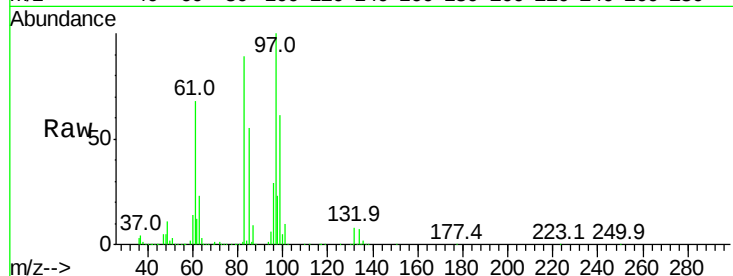
Ion Ratio Lower Upper

97 100

83 89.0 73.0 109.4

85 55.2 47.0 70.4

99 61.4 49.9 74.9

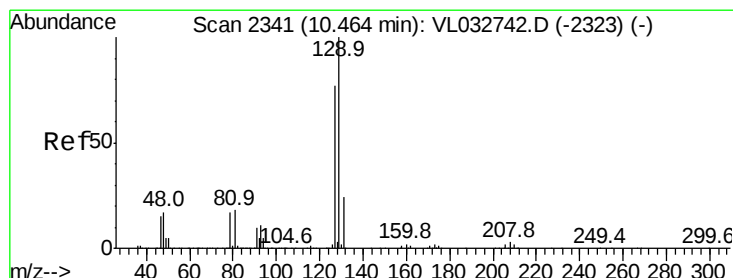
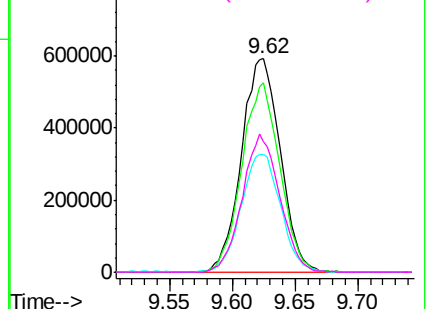
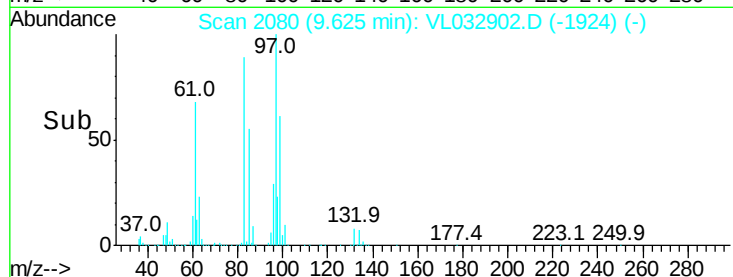


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.726 ppbv

RT: 10.46 min Scan# 2340

Delta R.T. -0.00 min

Lab File: VL032902.D

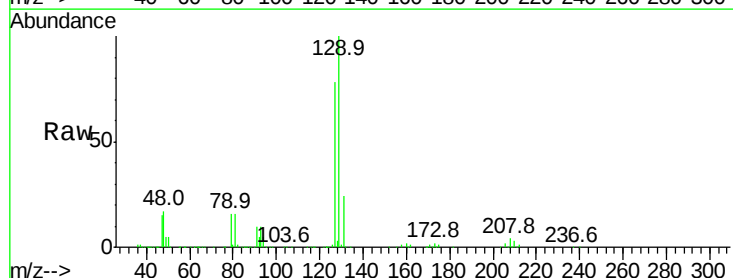
Acq: 5 Dec 2018 7:51

Tgt Ion: 129 Resp: 2319830

Ion Ratio Lower Upper

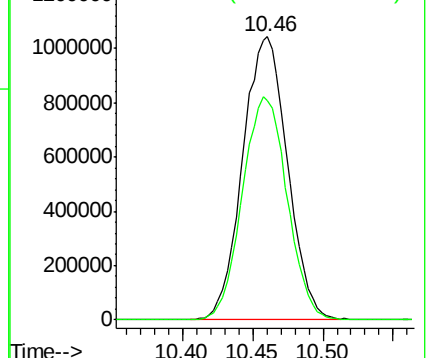
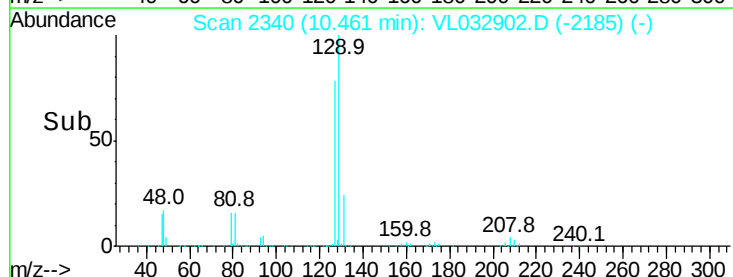
129 100

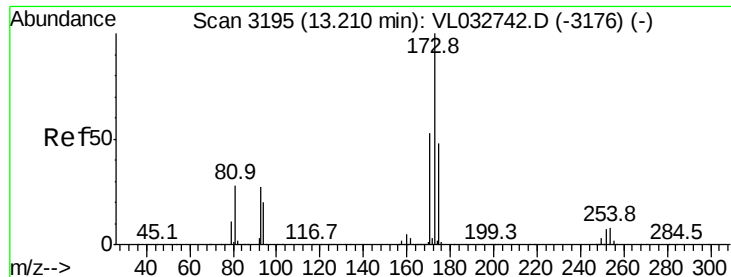
127 79.0 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.648 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

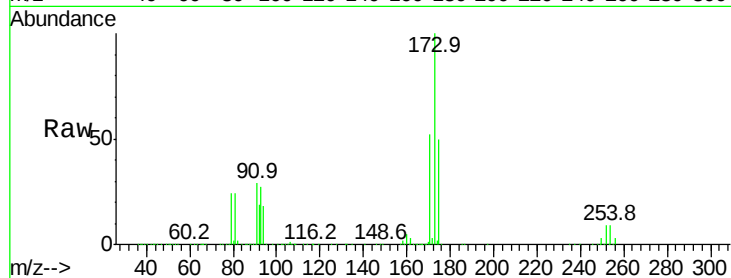
Tgt Ion:173 Resp: 2080586

Ion Ratio Lower Upper

173 100

175 48.6 39.4 59.0

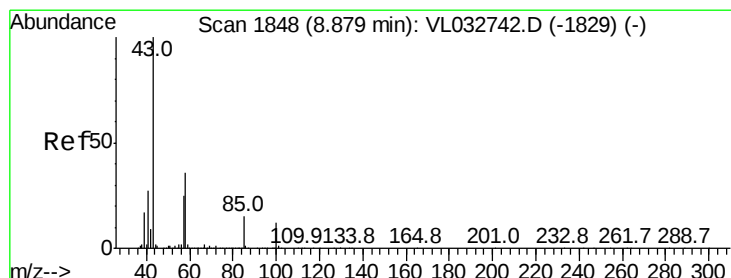
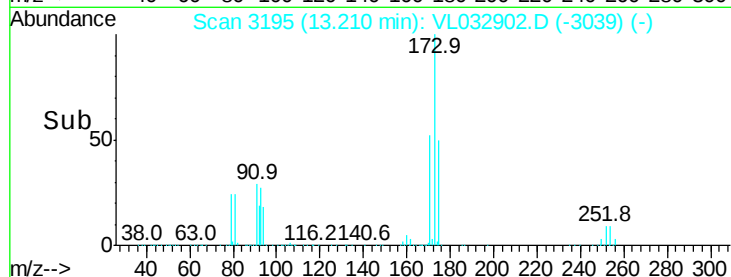
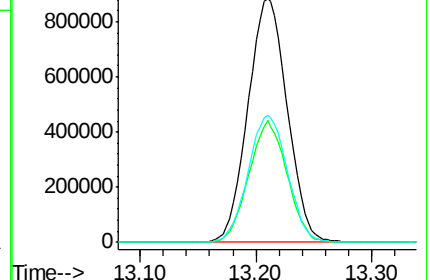
171 52.2 42.0 63.0



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: 10.291 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VL032902.D

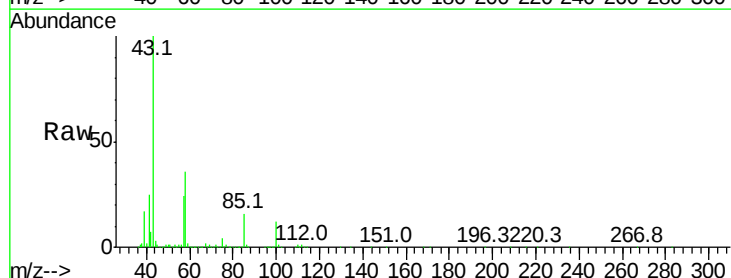
Acq: 5 Dec 2018 7:51

Tgt Ion: 43 Resp: 2956930

Ion Ratio Lower Upper

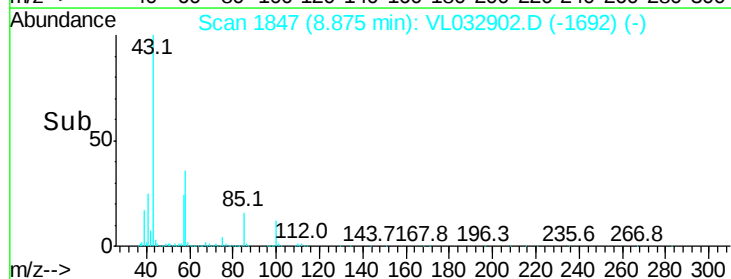
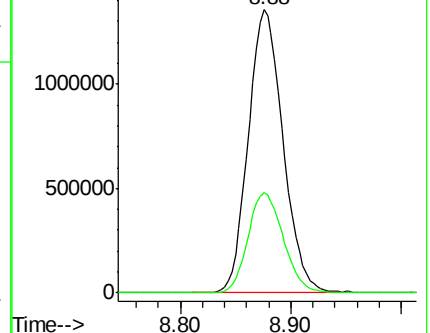
43 100

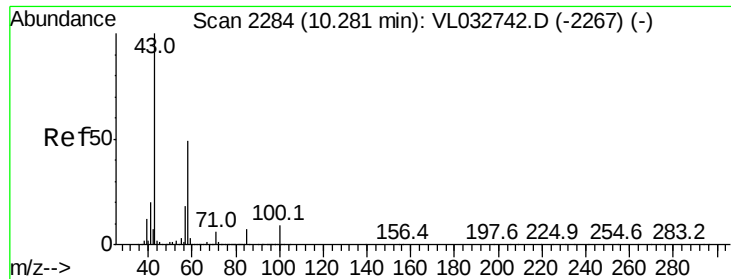
58 36.2 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

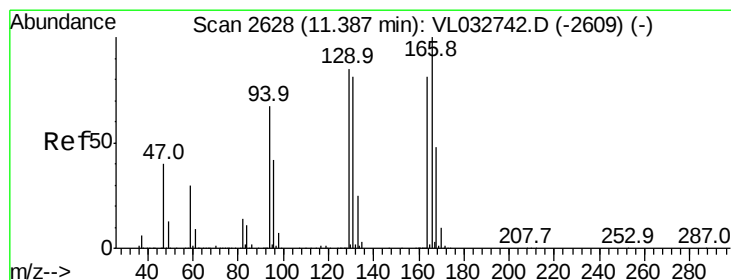
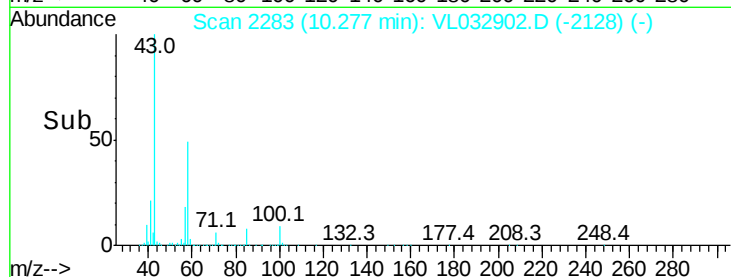
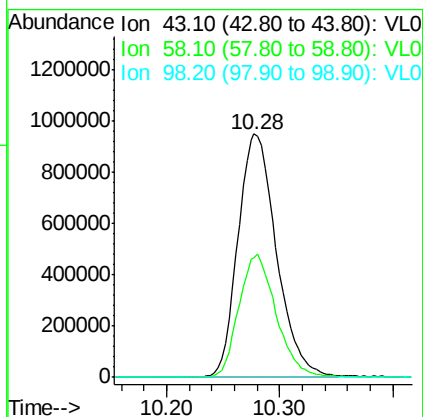
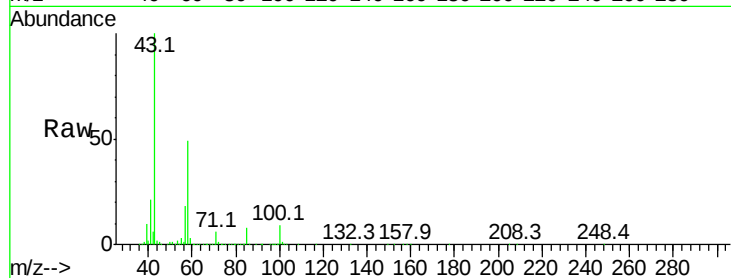




#51
2-Hexanone
Concen: 12.123 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

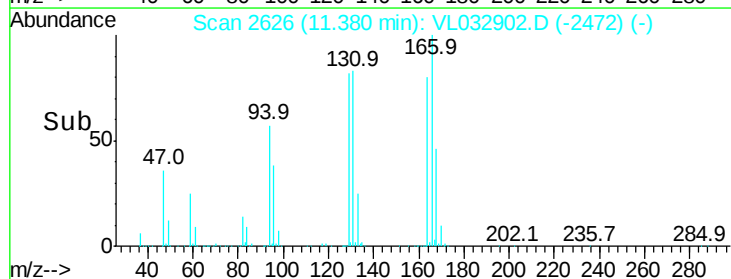
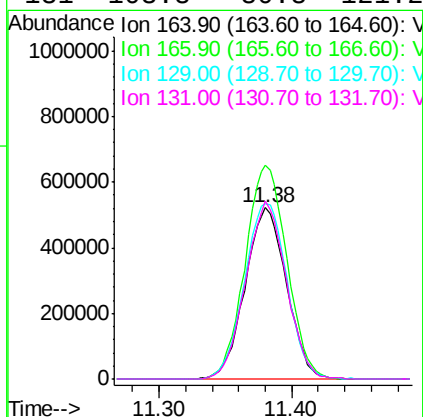
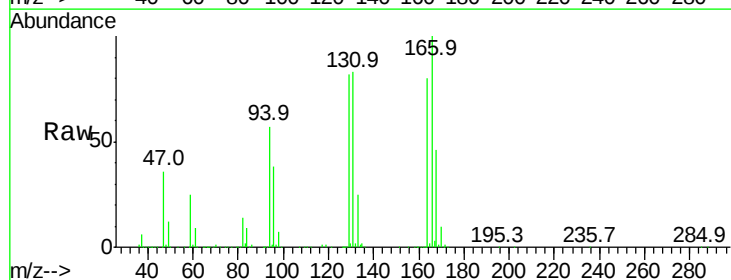
Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

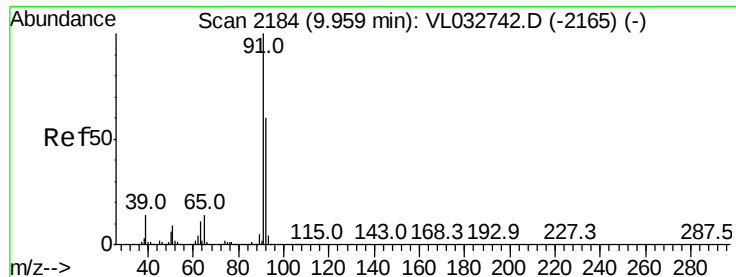
Tgt Ion: 43 Resp: 2244267
Ion Ratio Lower Upper
43 100
58 49.0 38.9 58.3
98 0.3 0.2 0.4



#52
Tetrachloroethene
Concen: 11.475 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 164 Resp: 1127495
Ion Ratio Lower Upper
164 100
166 124.5 99.3 148.9
129 102.6 83.9 125.9
131 103.8 80.8 121.2





#53

Toluene

Concen: 12.289 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

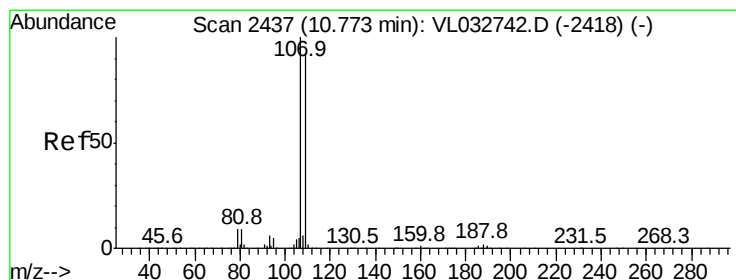
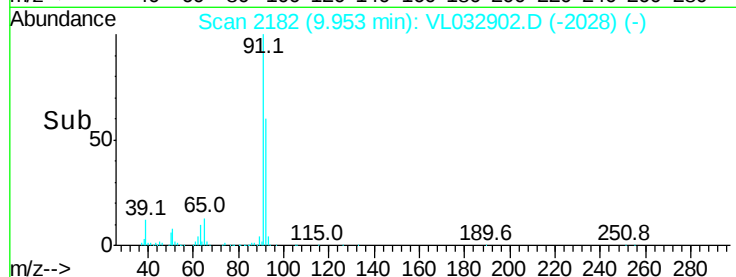
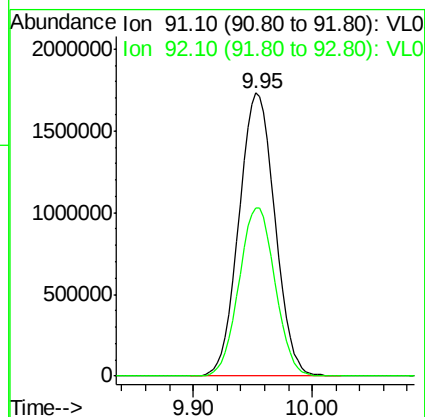
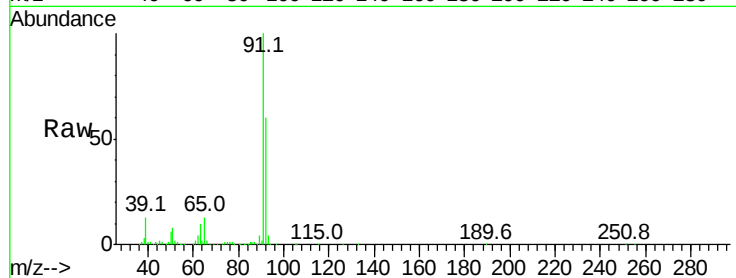
VL1204ABS01

Tgt Ion: 91 Resp: 3621179

Ion Ratio Lower Upper

91 100

92 60.0 47.9 71.9



#54

1,2-Dibromoethane

Concen: 10.943 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL032902.D

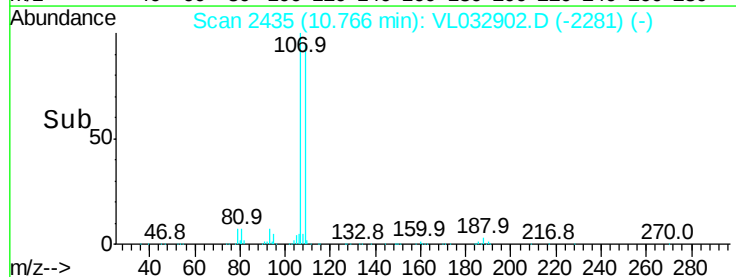
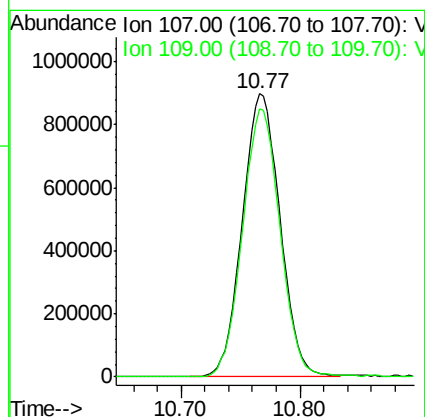
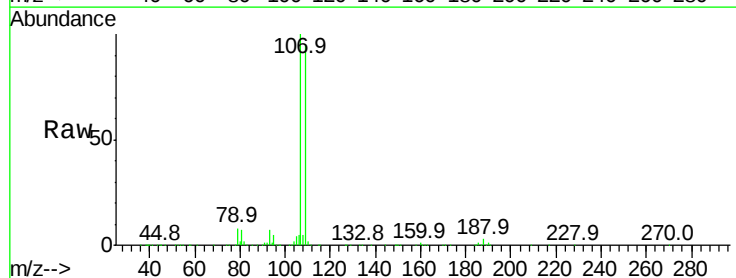
Acq: 5 Dec 2018 7:51

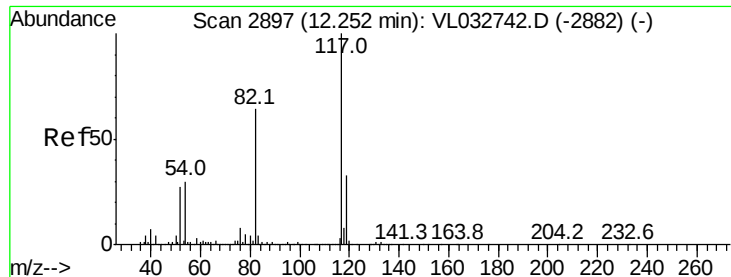
Tgt Ion: 107 Resp: 1968425

Ion Ratio Lower Upper

107 100

109 94.7 73.8 110.8

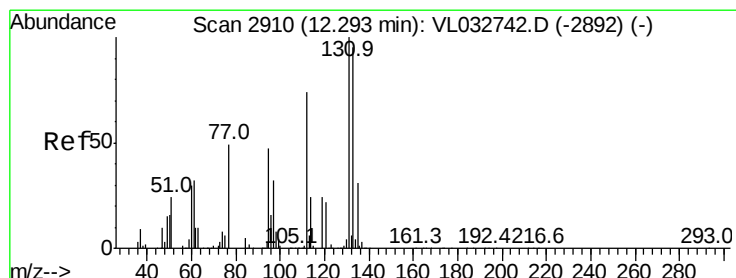
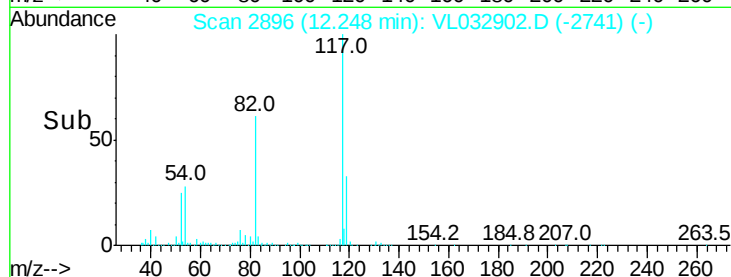
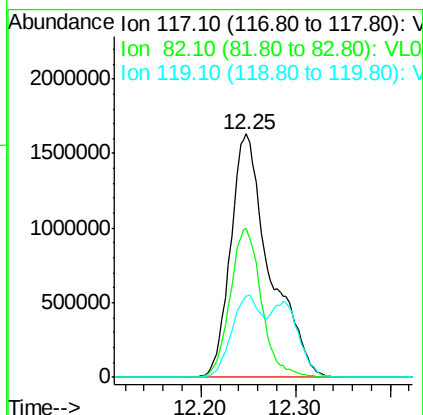
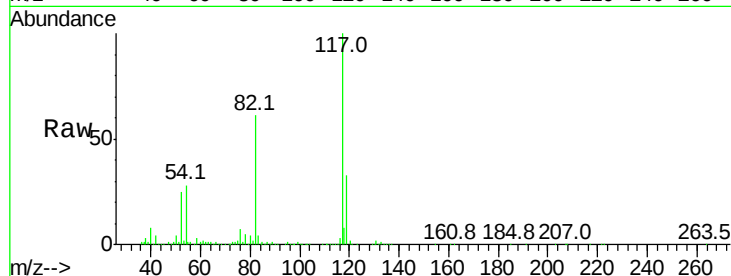




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

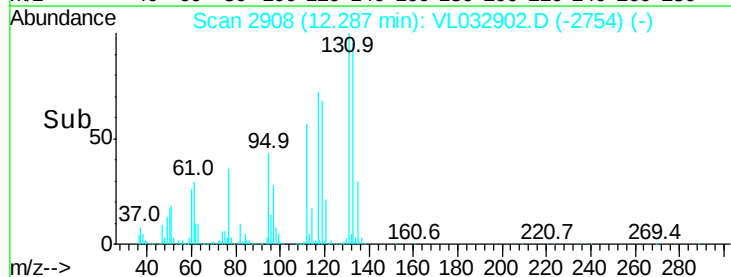
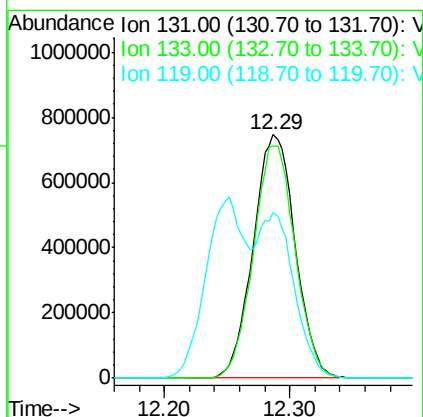
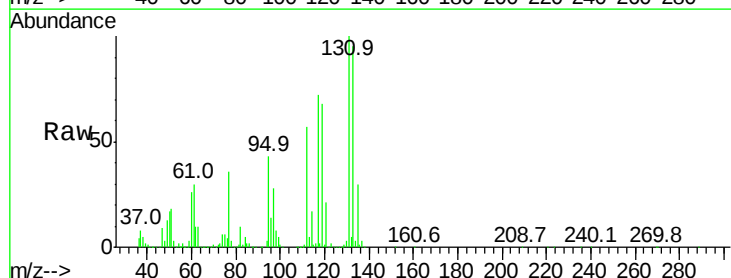
Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

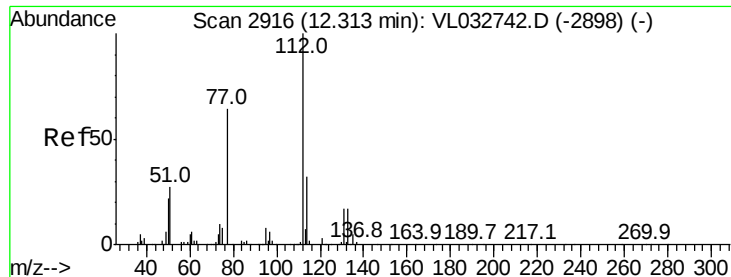
Tgt Ion:117 Resp: 4712652
Ion Ratio Lower Upper
117 100
82 48.7 51.0 76.6#
119 25.4 28.0 42.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.897 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion:131 Resp: 1735836
Ion Ratio Lower Upper
131 100
133 95.3 75.8 113.6
119 53.3 45.2 67.8





#57

Chlorobenzene

Concen: 8.186 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

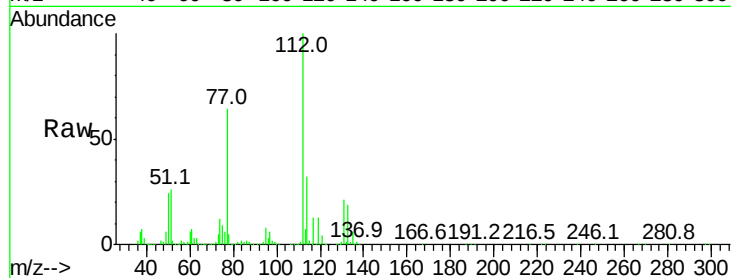
Tgt Ion: 112 Resp: 2952935

Ion Ratio Lower Upper

112 100

77 63.3 52.3 78.5

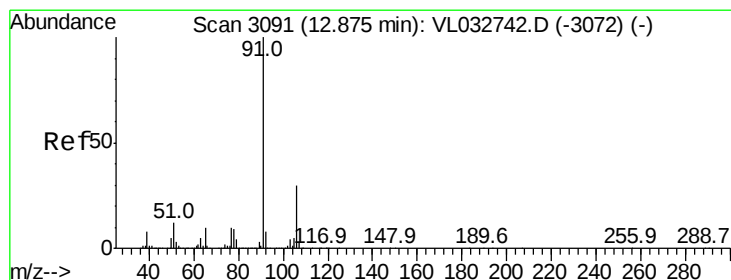
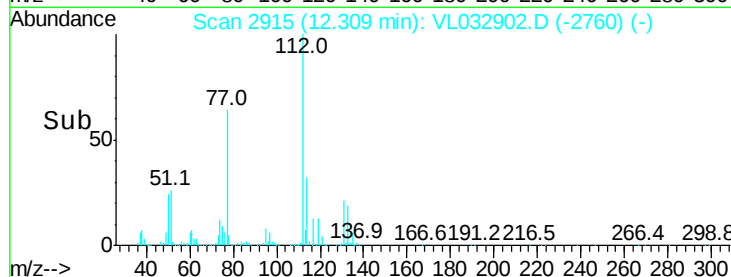
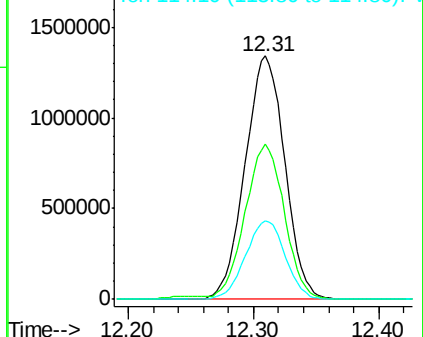
114 32.0 28.4 34.8



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: 9.166 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032902.D

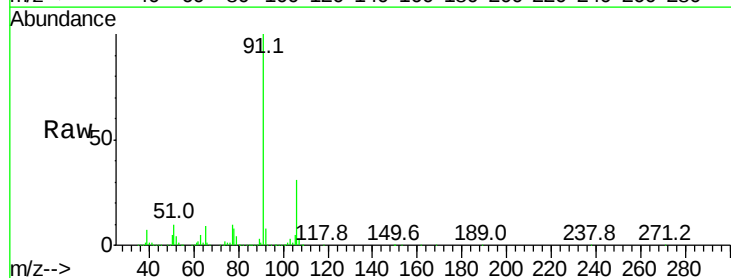
Acq: 5 Dec 2018 7:51

Tgt Ion: 91 Resp: 5198749

Ion Ratio Lower Upper

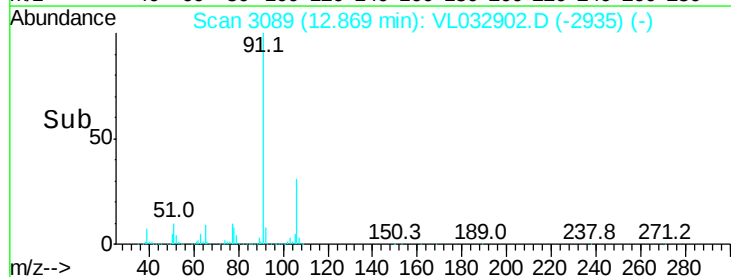
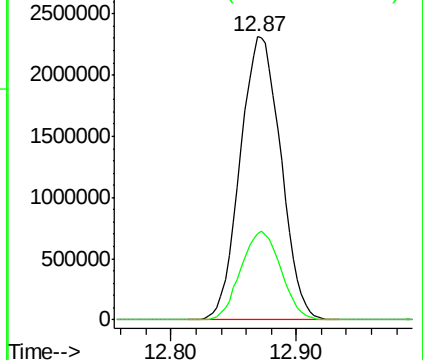
91 100

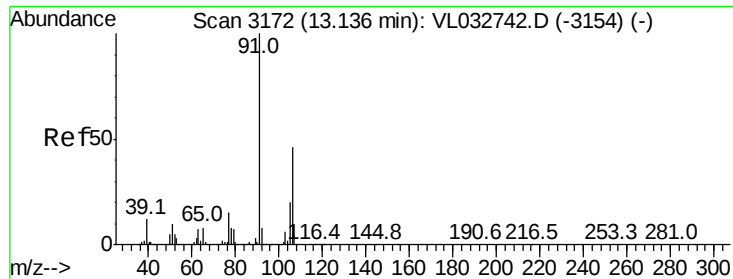
106 30.7 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

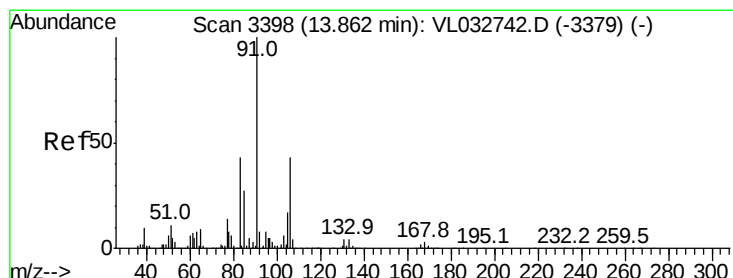
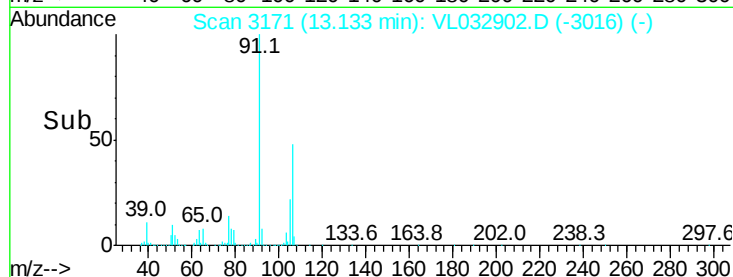
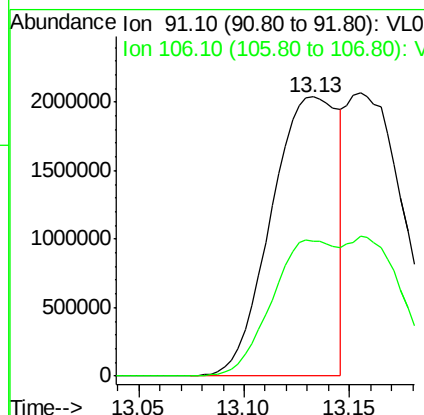
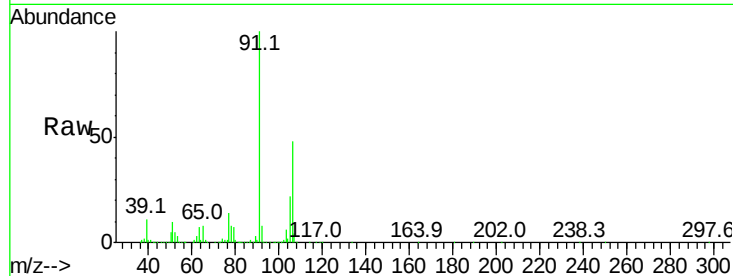




#59
m/p-Xylene
Concen: 8.874 ppbv
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

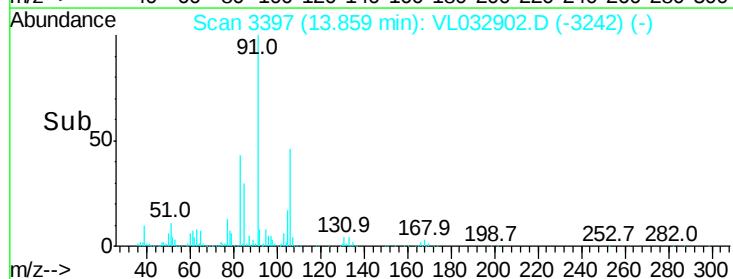
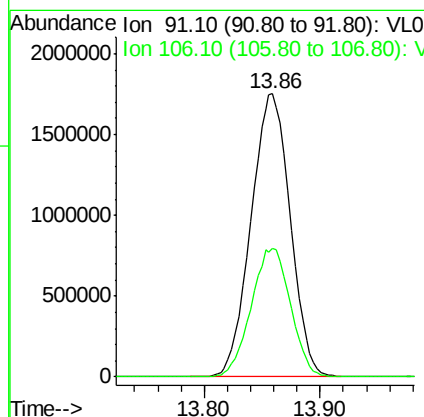
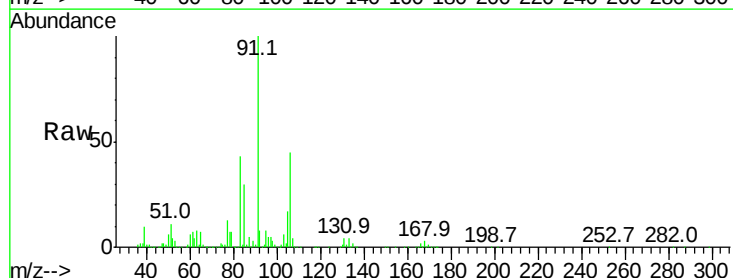
Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

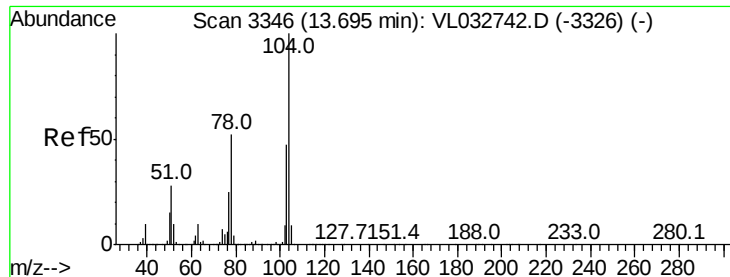
Tgt Ion: 91 Resp: 4480343
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#



#60
o-Xylene
Concen: 8.092 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 91 Resp: 4107831
Ion Ratio Lower Upper
91 100
106 45.7 21.9 65.7





#61

Styrene

Concen: 9.883 ppbv

RT: 13.70 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

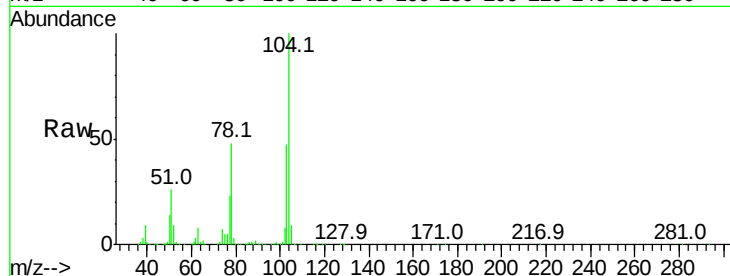
Tgt Ion:104 Resp: 3266111

Ion Ratio Lower Upper

104 100

78 48.6 42.2 63.4

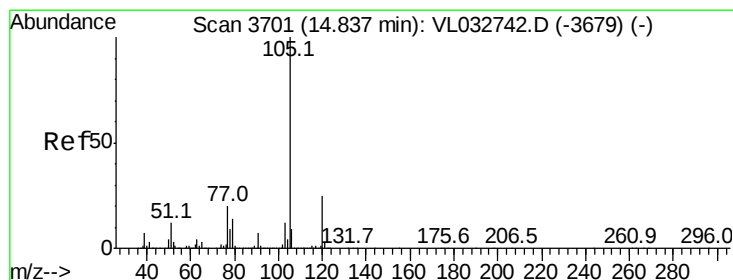
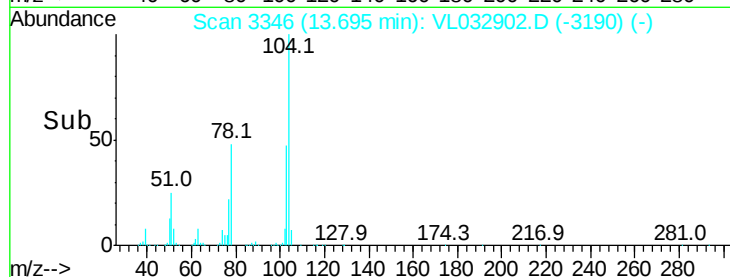
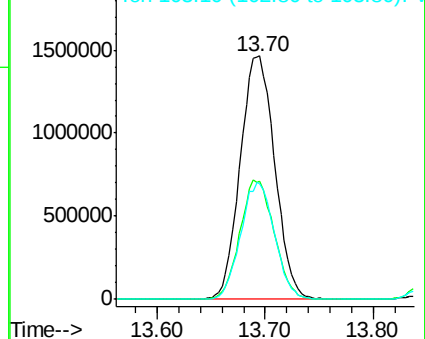
103 47.1 38.2 57.2



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: 8.854 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.00 min

Lab File: VL032902.D

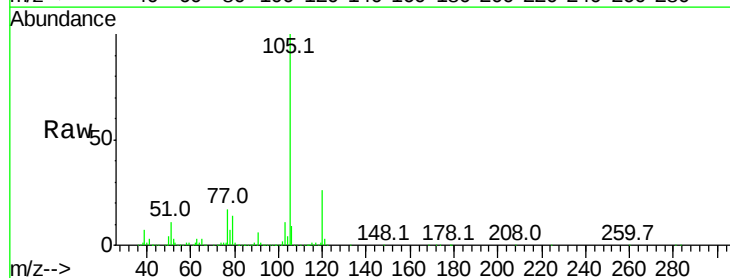
Acq: 5 Dec 2018 7:51

Tgt Ion:105 Resp: 6075753

Ion Ratio Lower Upper

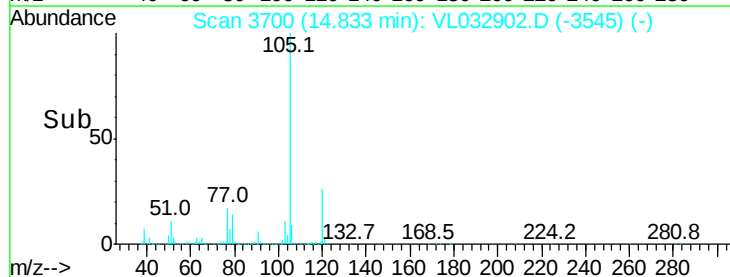
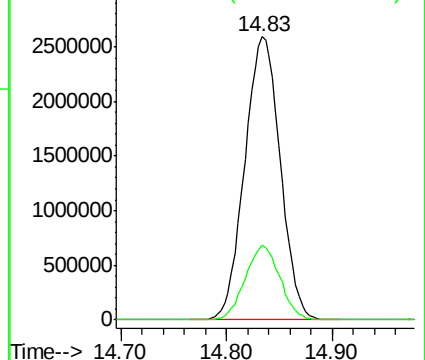
105 100

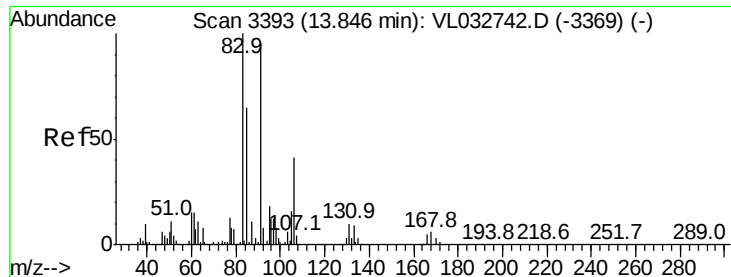
120 25.7 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

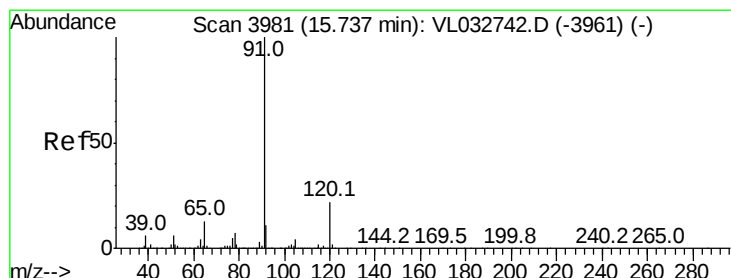
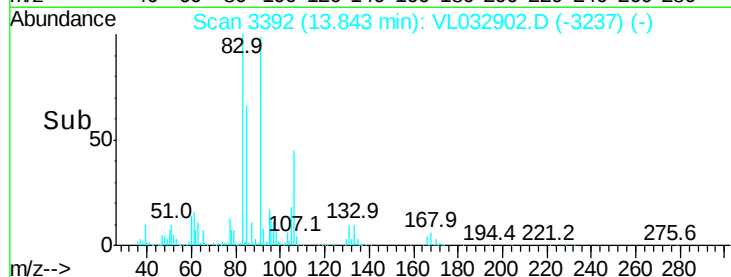
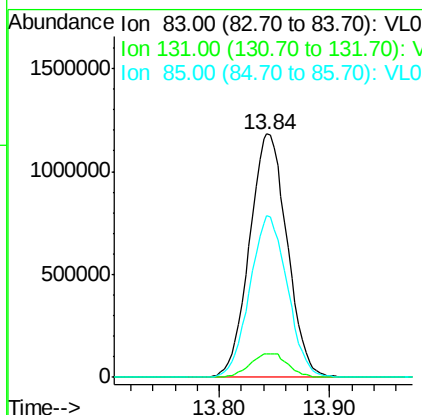
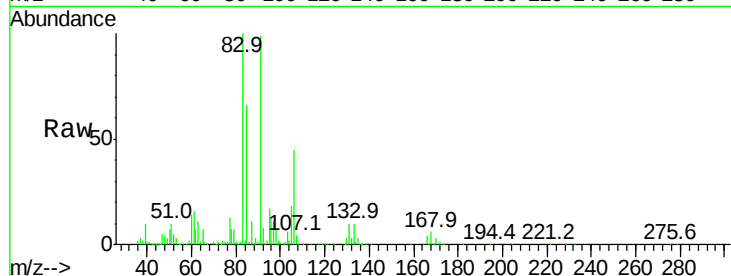




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.072 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

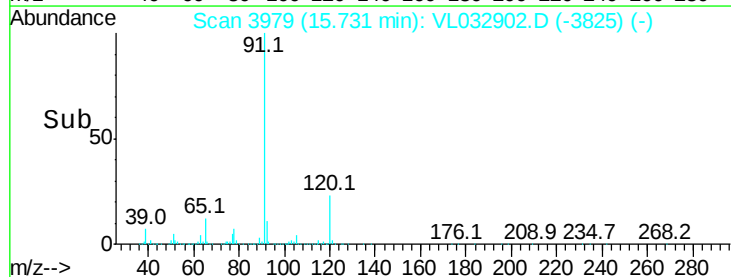
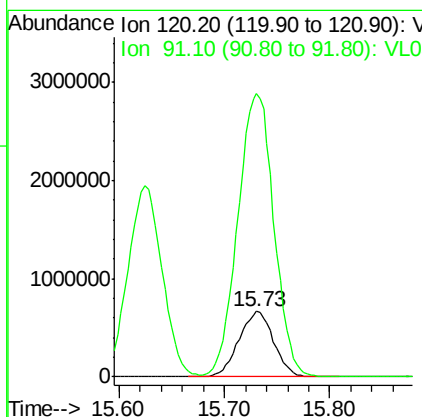
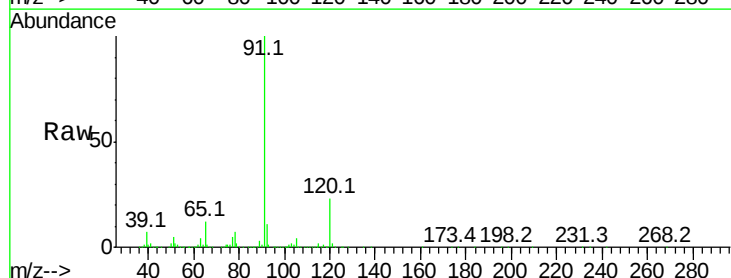
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

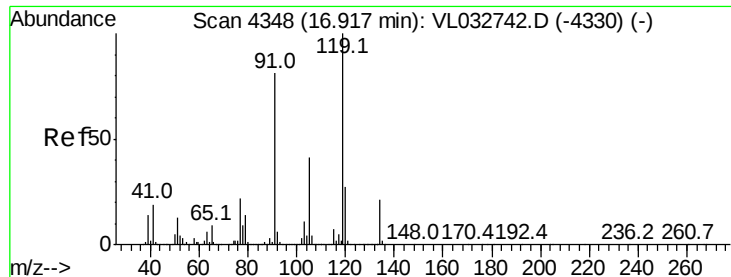
Tgt Ion: 83 Resp: 2798652
 Ion Ratio Lower Upper
 83 100
 131 9.9 4.7 14.1
 85 66.1 32.5 97.4



#64
 n-propylbenzene
 Concen: 8.435 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion: 120 Resp: 1522363
 Ion Ratio Lower Upper
 120 100
 91 451.5 381.7 572.5

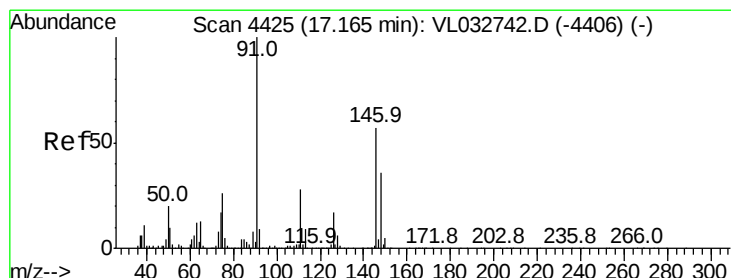
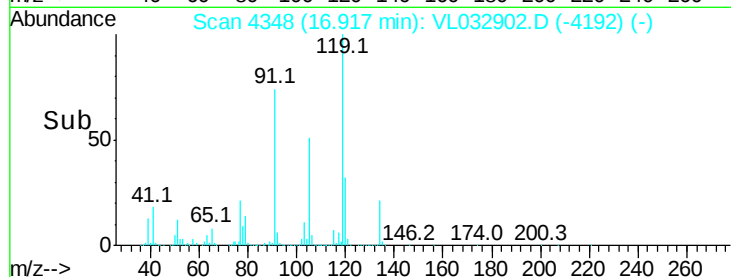
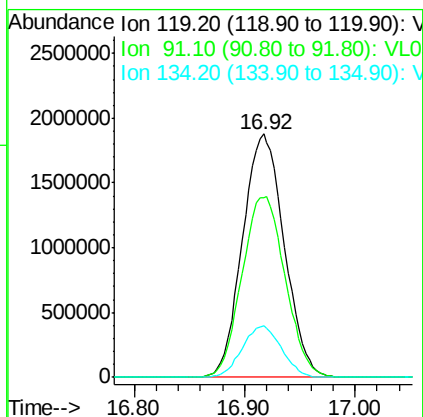
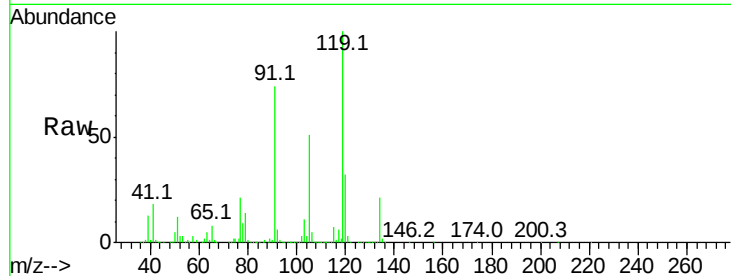




#65
 tert-Butylbenzene
 Concen: 7.983 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. 0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

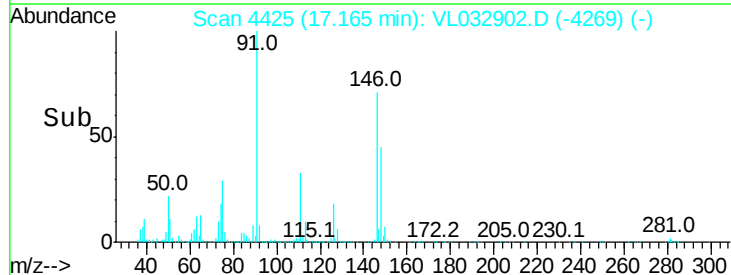
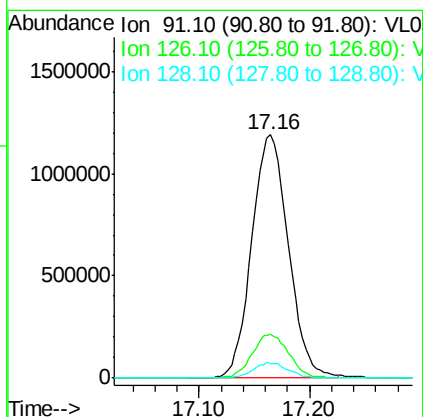
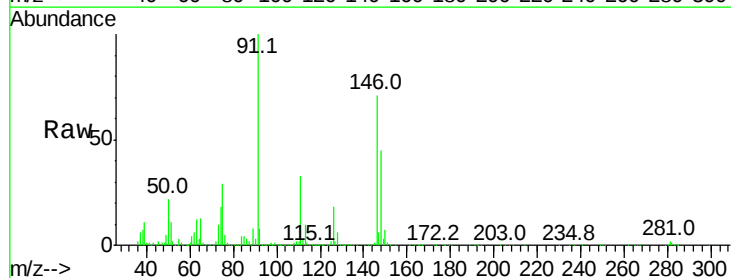
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

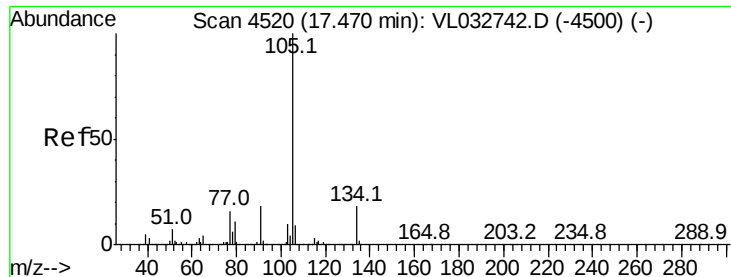
Tgt Ion: 119 Resp: 4910223
 Ion Ratio Lower Upper
 119 100
 91 77.0 65.6 98.4
 134 20.0 15.9 23.9



#66
 Benzyl Chloride
 Concen: 8.060 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion: 91 Resp: 2741049
 Ion Ratio Lower Upper
 91 100
 126 18.2 14.2 21.2
 128 6.0 4.5 6.7





#67

sec-Butylbenzene

Concen: 7.726 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

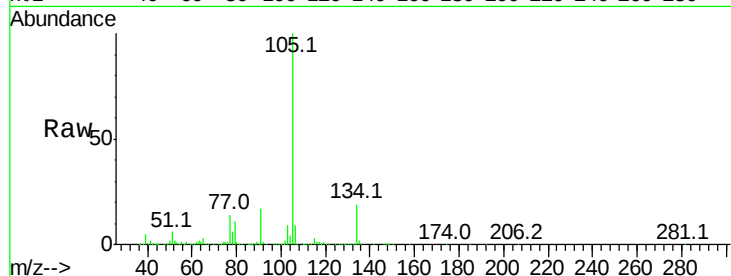
VL1204ABS01

Tgt Ion:105 Resp: 6849274

Ion Ratio Lower Upper

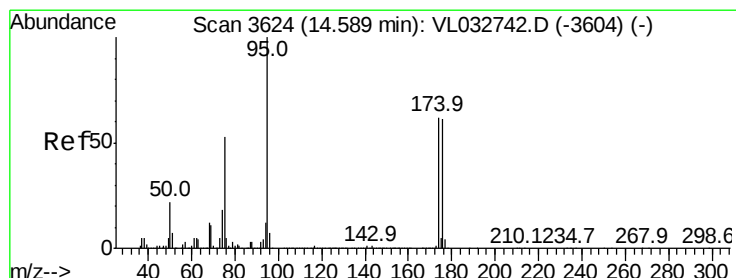
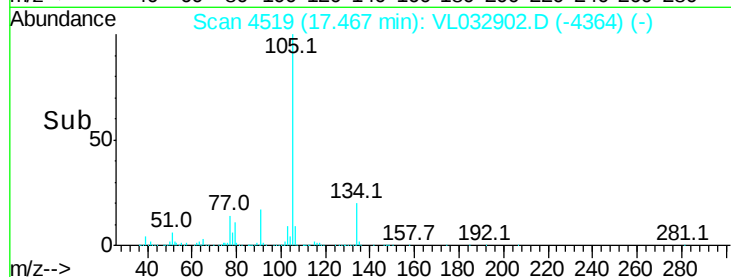
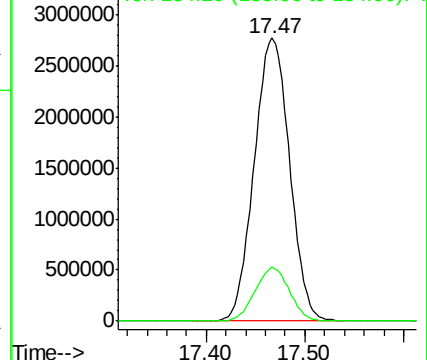
105 100

134 18.5 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 7.603 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

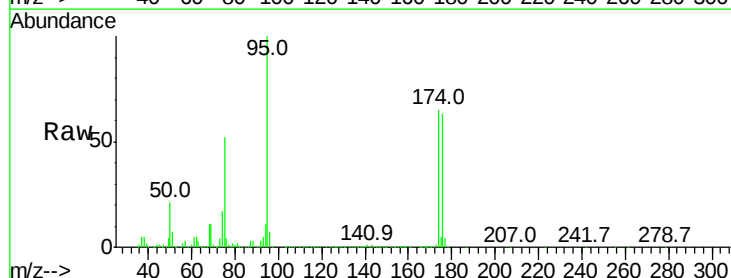
Tgt Ion: 95 Resp: 2679876

Ion Ratio Lower Upper

95 100

174 66.7 50.7 76.1

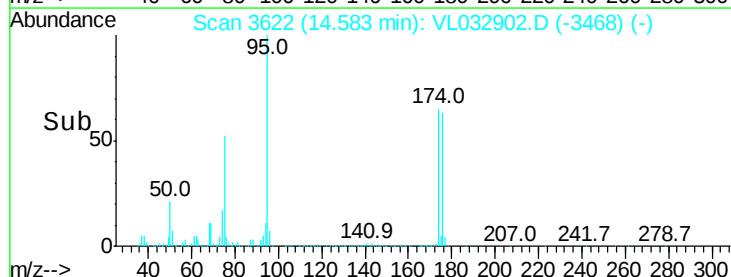
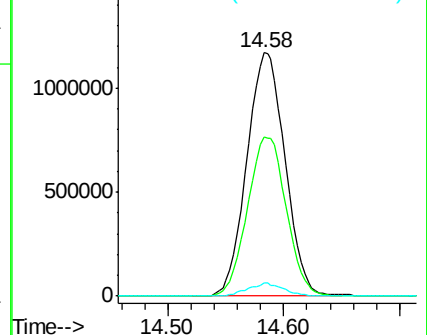
175 5.0 3.8 5.6

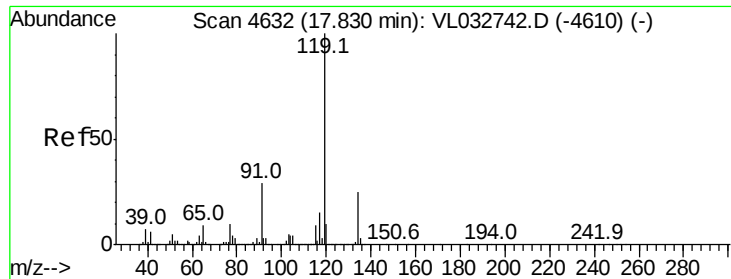


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

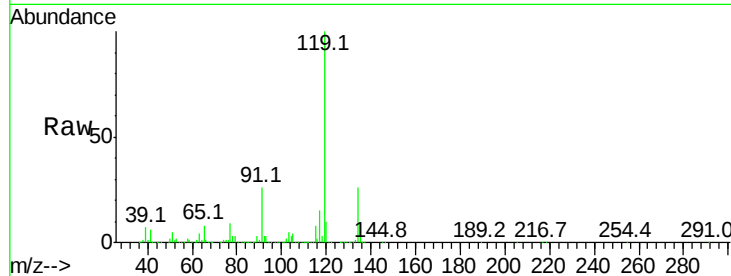




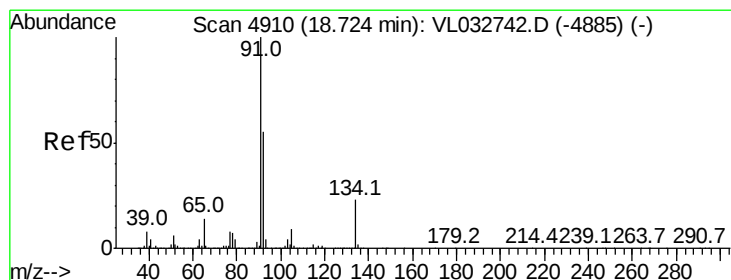
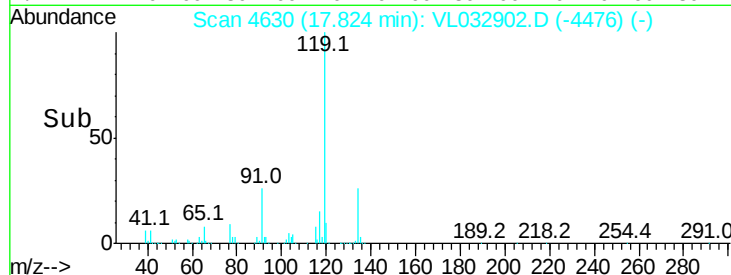
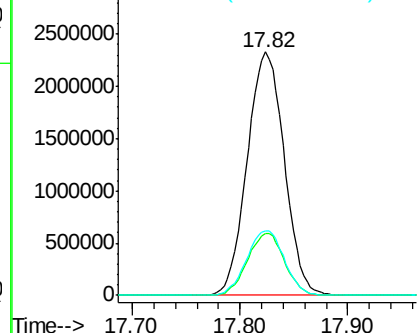
#69
p-Isopropyltoluene
Concen: 7.888 ppbv
RT: 17.82 min Scan# 4630
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tgt Ion: 119 Resp: 5559700
Ion Ratio Lower Upper
119 100
134 25.5 20.2 30.4
91 27.1 23.5 35.3

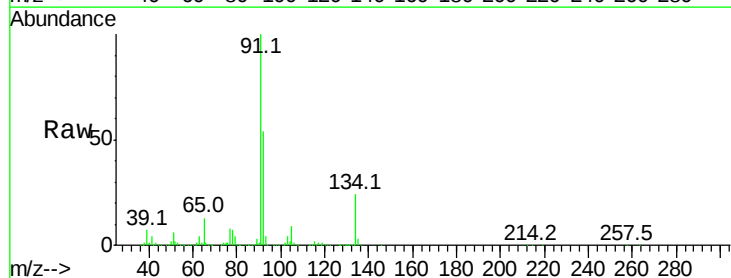


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

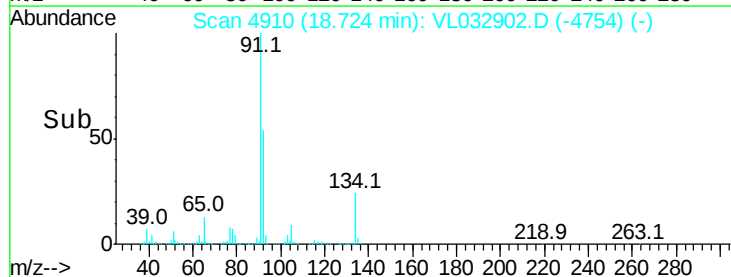
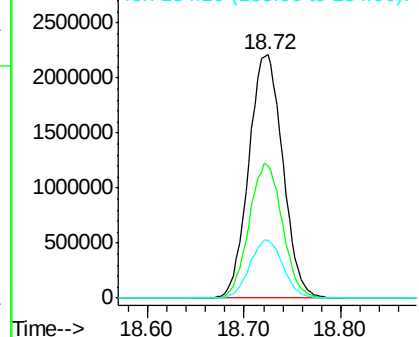


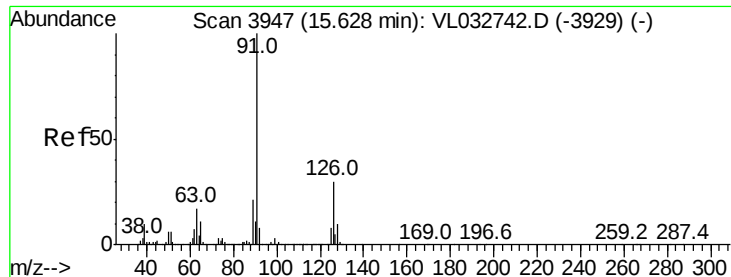
#70
n-Butylbenzene
Concen: 7.530 ppbv
RT: 18.72 min Scan# 4910
Delta R.T. 0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 91 Resp: 5389070
Ion Ratio Lower Upper
91 100
92 54.2 42.9 64.3
134 23.4 17.8 26.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.631 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

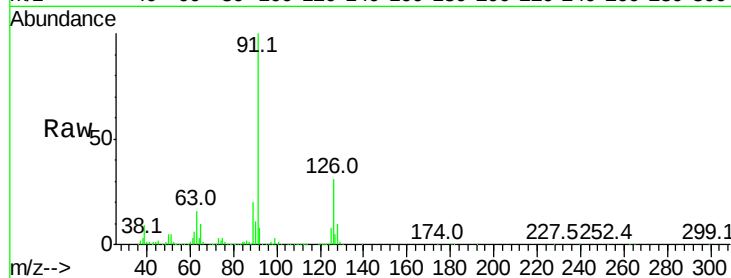
VL1204ABS01

Tgt Ion: 91 Resp: 4416926

Ion Ratio Lower Upper

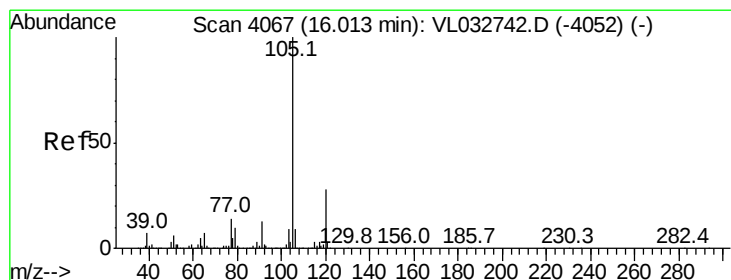
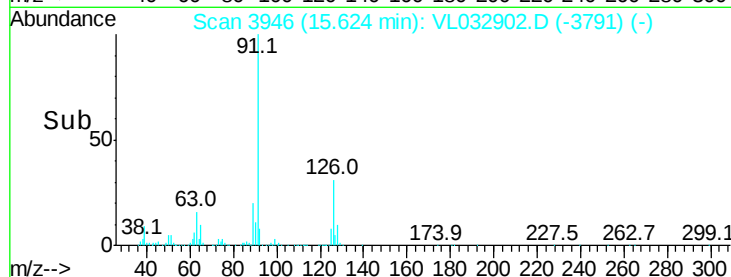
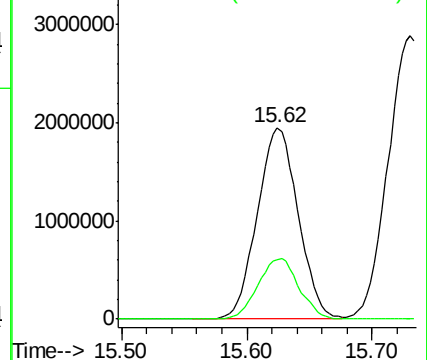
91 100

126 31.7 12.1 48.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.100 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion: 105 Resp: 4506958

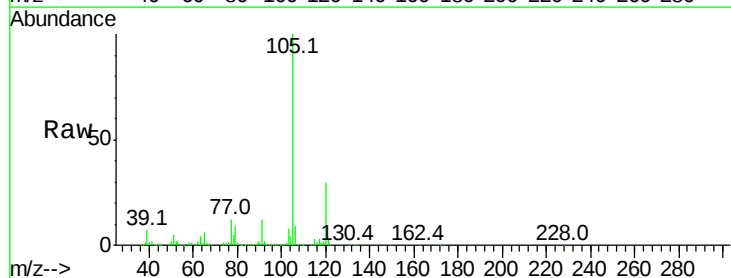
Ion Ratio Lower Upper

105 100

120 29.2 22.9 34.3

91 12.0 10.6 15.8

77 12.6 11.4 17.2

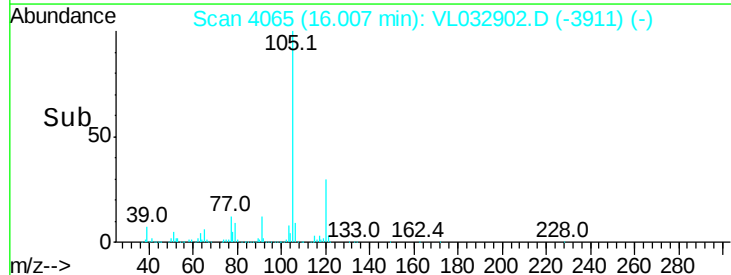
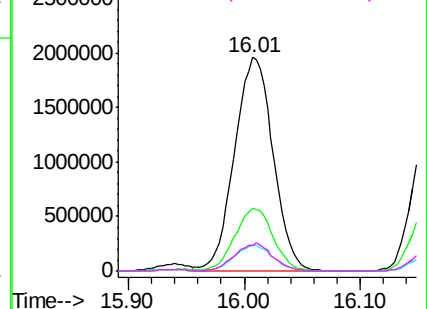


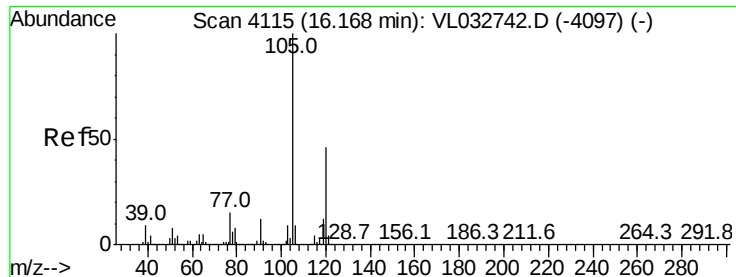
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 7.849 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

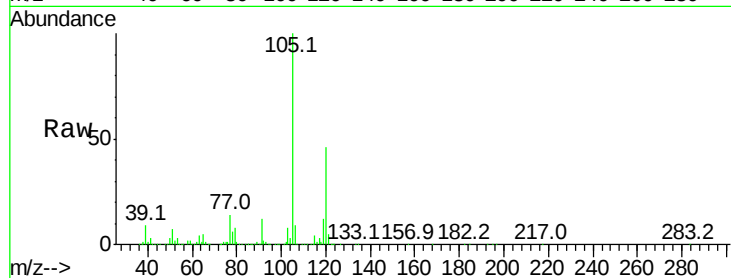
VL1204ABS01

Tgt Ion:105 Resp: 4270418

Ion Ratio Lower Upper

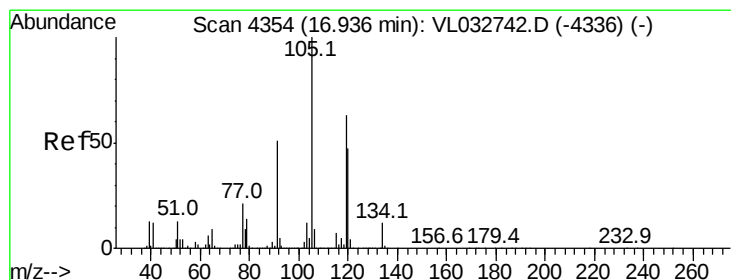
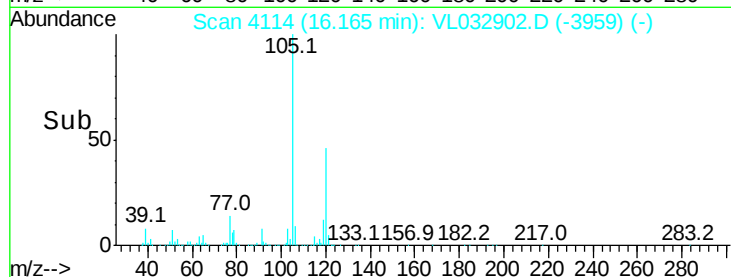
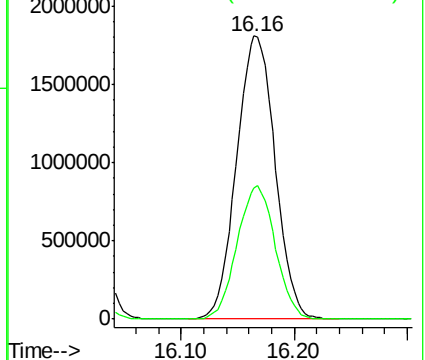
105 100

120 46.1 36.6 55.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.308 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion:105 Resp: 4254693

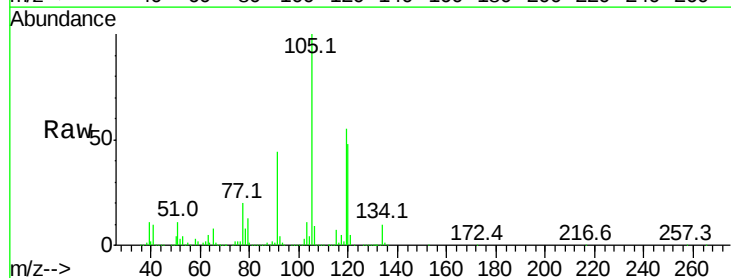
Ion Ratio Lower Upper

105 100

120 48.4 37.6 56.4

91 44.0 42.5 63.7

77 19.5 17.4 26.2

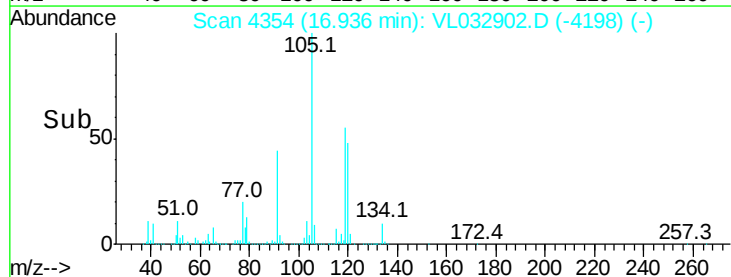
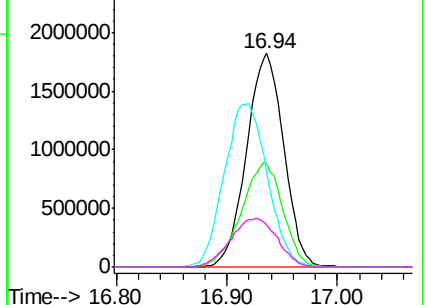


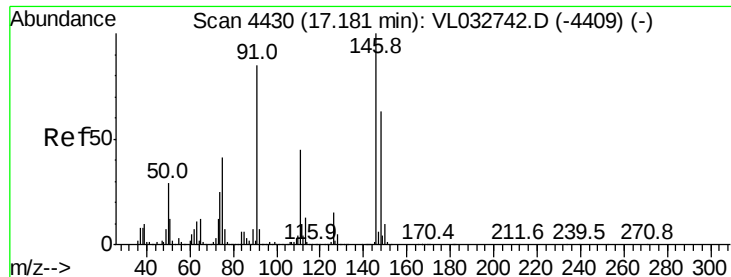
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

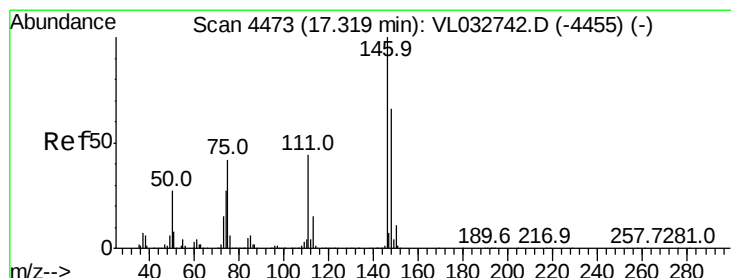
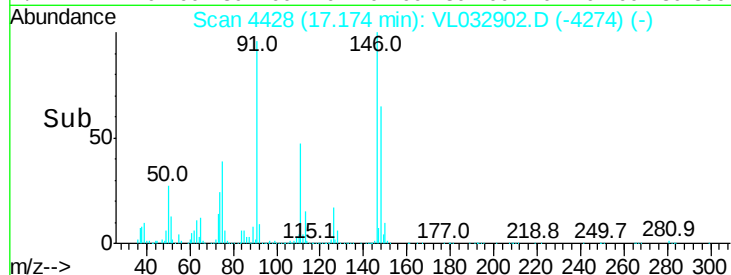
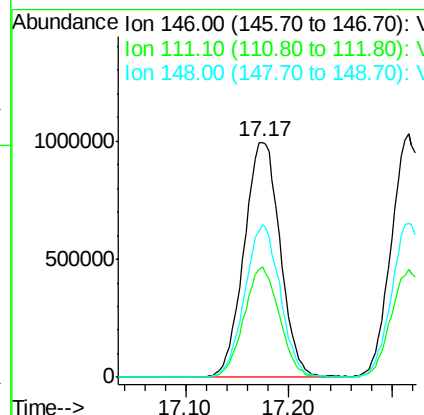
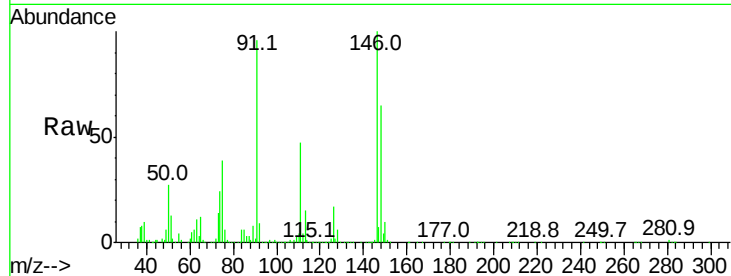




#75
 1,3-Dichlorobenzene
 Concen: 7.253 ppbv
 RT: 17.17 min Scan# 4428
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

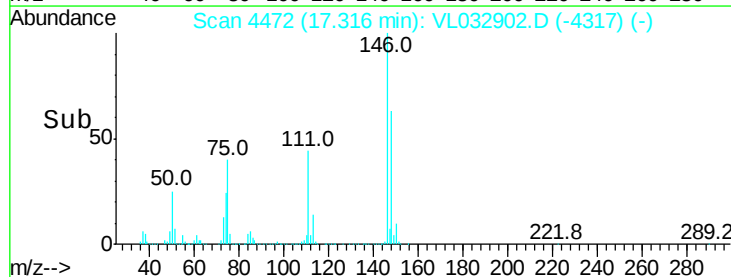
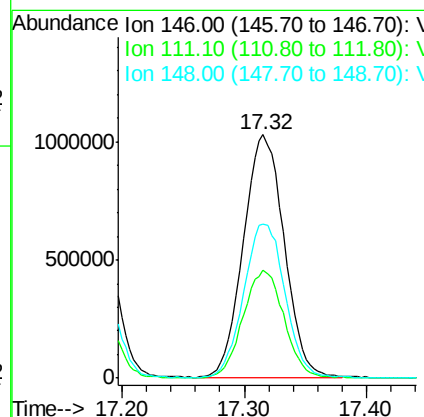
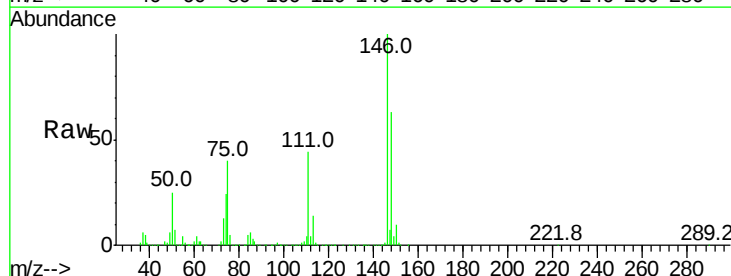
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

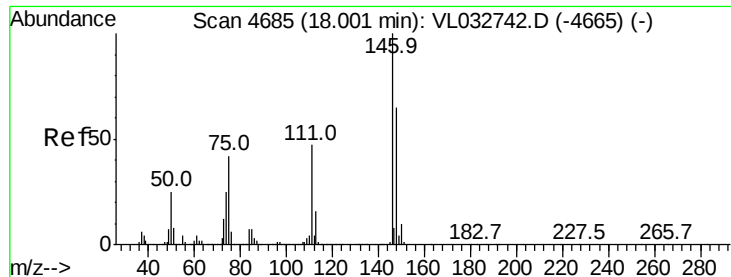
Tgt Ion:146 Resp: 2422291
 Ion Ratio Lower Upper
 146 100
 111 45.9 23.5 70.6
 148 63.5 31.8 95.3



#76
 1,4-Dichlorobenzene
 Concen: 7.620 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion:146 Resp: 2377119
 Ion Ratio Lower Upper
 146 100
 111 44.7 22.5 67.5
 148 64.6 32.5 97.5





#77

1,2-Dichlorobenzene

Concen: 7.601 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

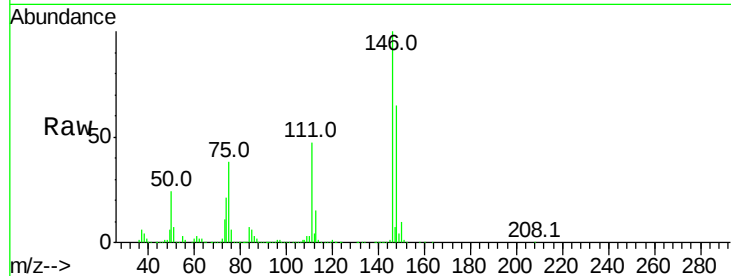
Tgt Ion:146 Resp: 2348238

Ion Ratio Lower Upper

146 100

111 47.2 24.4 73.2

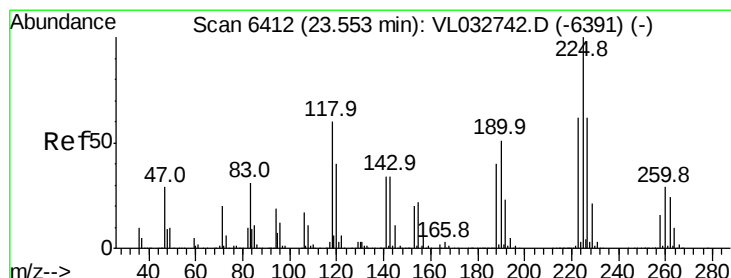
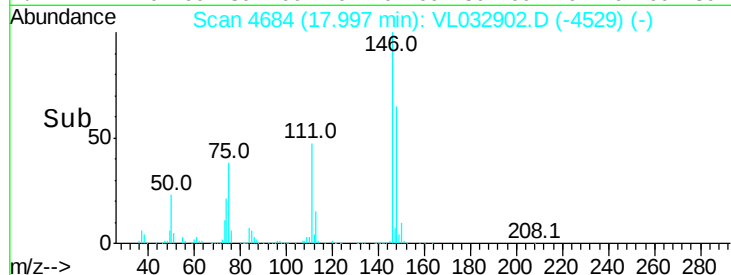
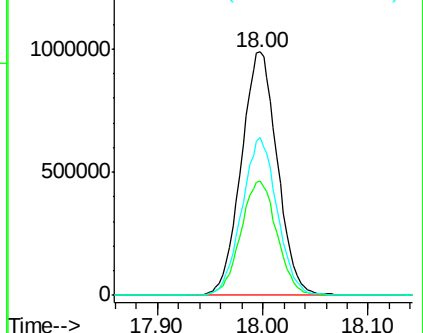
148 63.7 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.054 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

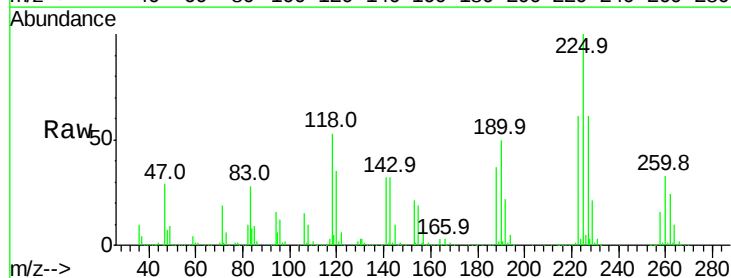
Tgt Ion:225 Resp: 1009449

Ion Ratio Lower Upper

225 100

223 62.7 50.3 75.5

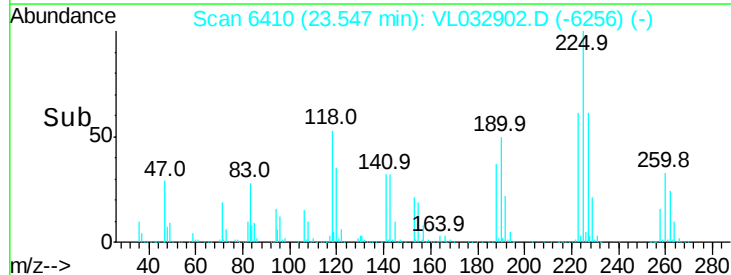
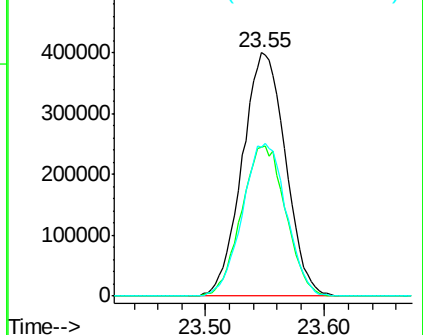
227 63.4 50.2 75.4

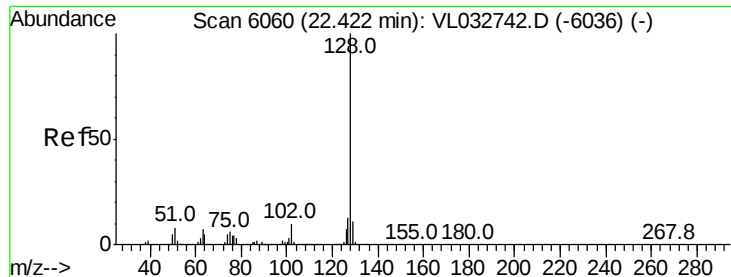


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.689 ppbv

RT: 22.42 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

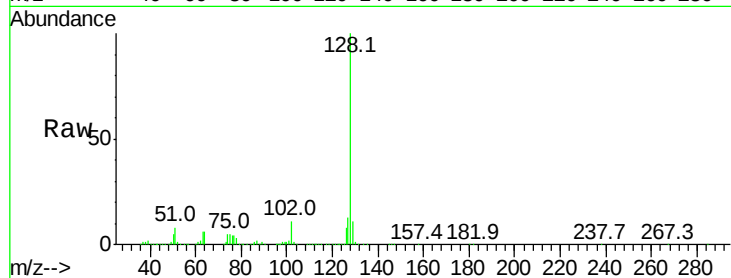
Tgt Ion:128 Resp: 3323063

Ion Ratio Lower Upper

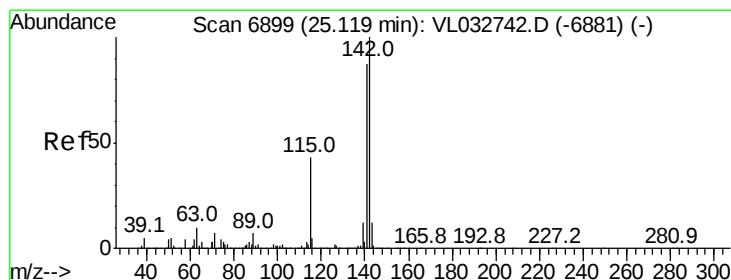
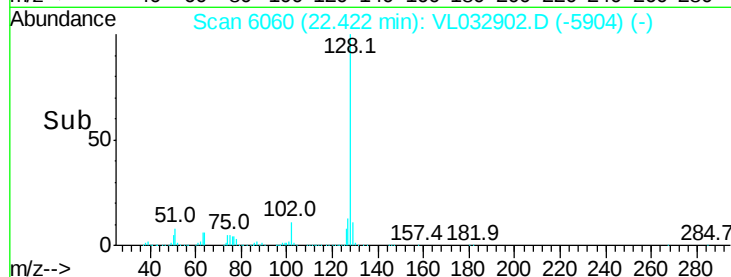
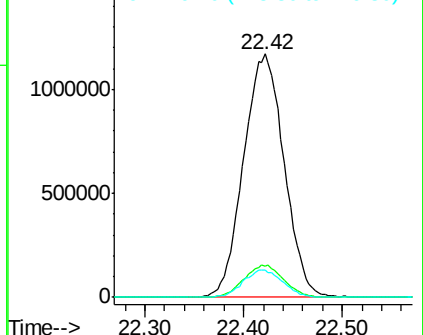
128 100

127 12.6 10.1 15.1

129 11.3 8.9 13.3



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: 8.026 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

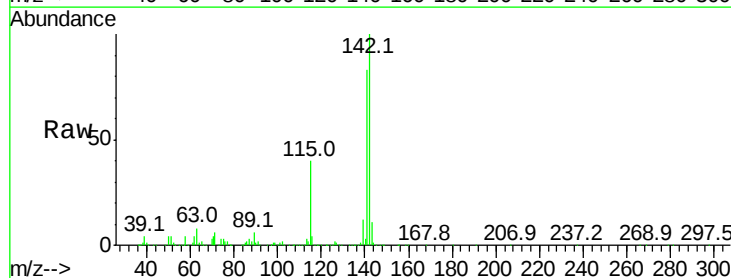
Tgt Ion:142 Resp: 768805

Ion Ratio Lower Upper

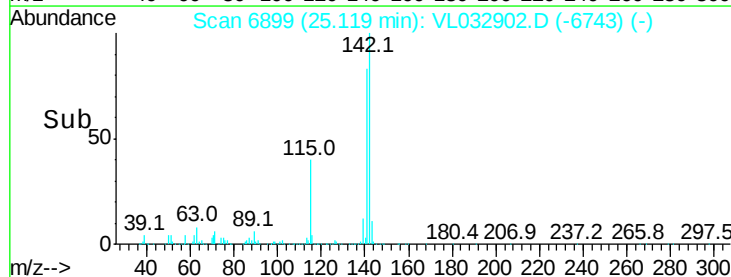
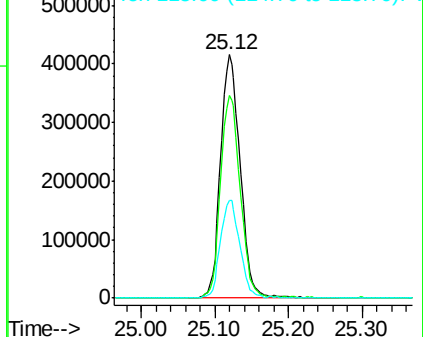
142 100

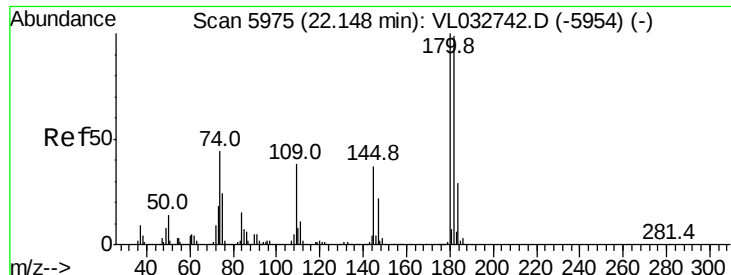
141 83.5 68.7 103.1

115 40.1 35.5 53.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

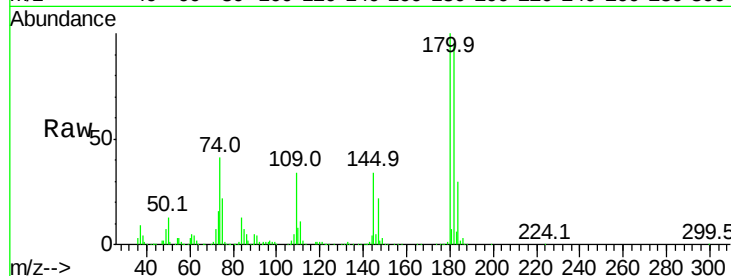




#81
 1,2,4-Trichlorobenzene
 Concen: 8.582 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tgt Ion:180 Resp: 1648264
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.3 115.9
 184 30.6 24.2 36.4



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

