

Data File : VL032371.D
Acq On : 16 Aug 2018 4:34
Operator : SY/AP
Sample : J4457-07
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

Quant Time: Aug 16 05:52:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1625539	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3419457	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3396572	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	2606182	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.11	85	17357	Below Cal	99
3) Chlorodifluoromethane	3.04	51	28373	0.188 ppbv #	85
4) Chloromethane	3.21	50	92906	1.037 ppbv	93
9) Propene	3.07	41	2694381	41.809 ppbv	93
10) Heptane	8.31	43	686818	3.538 ppbv	100
11) Trichlorofluoromethane	4.05	101	57124	0.314 ppbv	90
13) Ethanol	4.13	45	52382227	3164.732 ppbv #	36
15) Acetone	3.94	43	9505242	61.546 ppbv	95
16) 1,3-Butadiene	3.38	39	1587200	24.892 ppbv #	12
17) tert-Butyl alcohol	4.16	59	1898853	73.274 ppbv #	87
19) Isopropyl Alcohol	4.13	45	89478267	860.380 ppbv #	96
20) Methylene Chloride	4.46	84	128220	2.198 ppbv	93
21) Allyl Chloride	4.79	41	86328	0.886 ppbv #	1
22) trans-1,2-Dichloroethene	5.02	96	3628	0.063 ppbv #	65
23) Vinyl Acetate	5.19	43	2287620	8.578 ppbv #	61
24) 1,1-Dichloroethane	5.16	63	19163	0.100 ppbv #	96
25) Ethyl Acetate	5.82	43	912443	2.757 ppbv	97
26) Hexane	5.83	57	525597	3.562 ppbv #	78
27) Carbon Disulfide	4.67	76	269311	1.956 ppbv #	89
28) Methyl tert-Butyl Ether	5.17	73	90735	0.463 ppbv #	51
29) Chloroform	5.90	83	12597	0.058 ppbv	90
30) Cyclohexane	7.31	84	81048	0.721 ppbv #	69
31) cis-1,2-Dichloroethene	5.82	61	70606	0.489 ppbv #	31
34) 2-Butanone	5.38	43	2683612	11.531 ppbv	100
35) Carbon Tetrachloride	7.16	117	385806	1.914 ppbv #	14
36) Benzene	7.06	78	409051	1.411 ppbv	94
39) 1,2-Dichloropropane	7.35	63	862405	7.122 ppbv #	24
41) Tetrahydrofuran	6.21	42	108410	0.868 ppbv	95
42) Bromodichloromethane	7.98	83	8129	0.035 ppbv #	25
43) Methyl Methacrylate	8.20	69	8510	0.074 ppbv #	1
44) 2,2,4-Trimethylpentane	8.05	57	287470	0.550 ppbv #	66
49) Bromoform	12.97	173	5599	0.038 ppbv #	28
50) 4-Methyl-2-Pentanone	8.94	43	371885	1.106 ppbv	99
51) 2-Hexanone	10.33	43	21803	0.092 ppbv #	28
52) Tetrachloroethene	11.44	164	71448	0.836 ppbv	86
53) Toluene	10.01	91	4431135	13.943 ppbv	99
54) 1,2-Dibromoethane	10.83	107	34826	0.203 ppbv #	5
58) Ethyl Benzene	12.93	91	831841	2.036 ppbv	97
59) m/p-Xylene	13.19	91	2599245	7.488 ppbv	98
60) o-Xylene	13.92	91	898284	2.633 ppbv	98
61) Styrene	13.75	104	93717	0.393 ppbv #	54

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081518\
Quantitation Report (Not Reviewed)

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QLast Update : Wed Aug 15 14:58:02 2018
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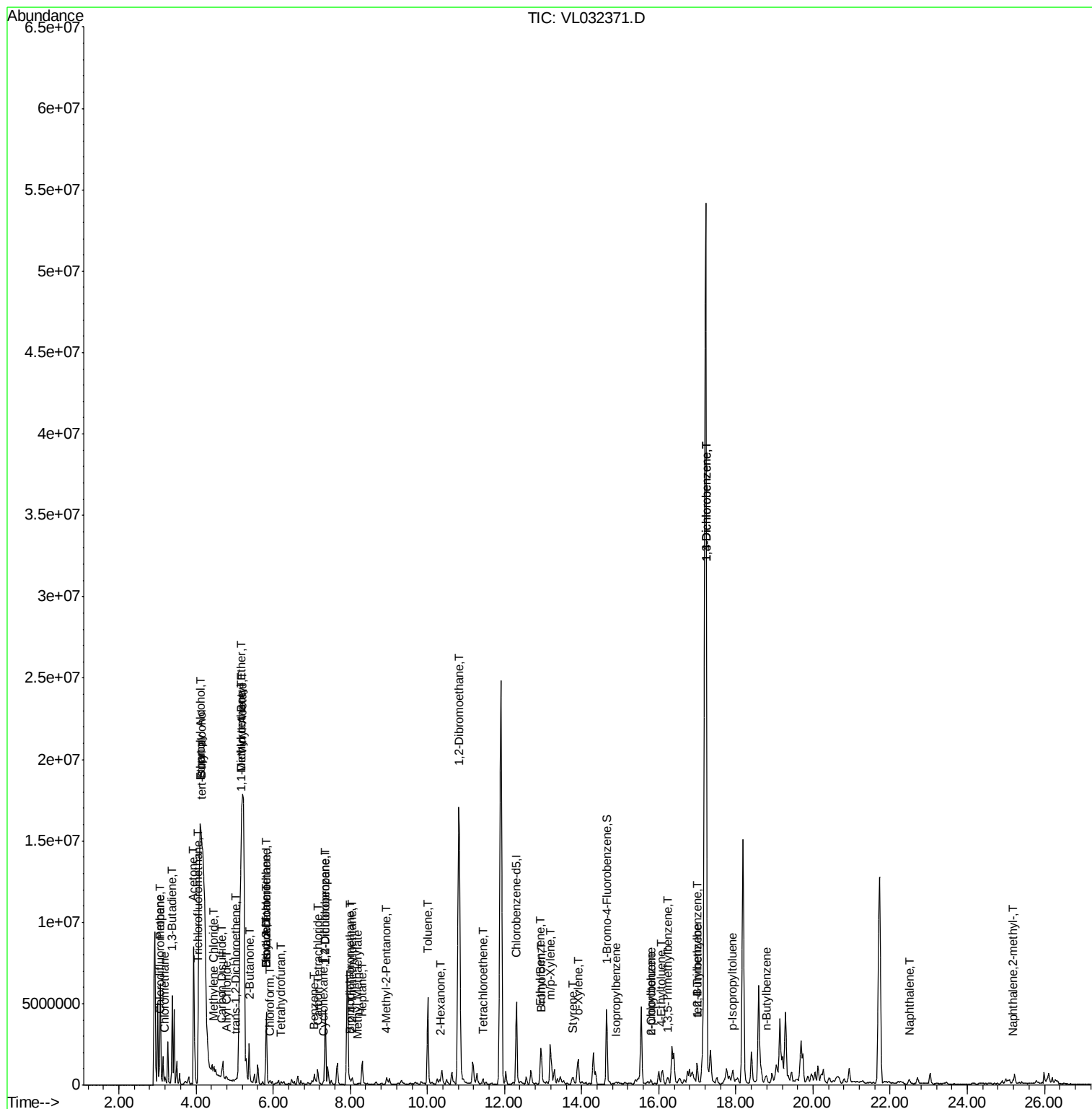
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.90	105	39083	0.080	ppbv #	73
64) n-propylbenzene	15.79	120	35434	0.282	ppbv #	23
65) tert-Butylbenzene	17.00	119	104425	0.252	ppbv #	73
69) p-Isopropyltoluene	17.89	119	23101	0.049	ppbv #	7
70) n-Butylbenzene	18.79	91	55464	0.107	ppbv #	36
71) 2-Chlorotoluene	15.79	91	138263	0.368	ppbv #	45
72) 4-Ethyltoluene	16.07	105	283004	0.744	ppbv	99
73) 1,3,5-Trimethylbenzene	16.23	105	235589	0.644	ppbv	97
74) 1,2,4-Trimethylbenzene	17.00	105	930630	2.389	ppbv #	70
75) 1,3-Dichlorobenzene	17.25	146	915631	3.912	ppbv #	73
76) 1,4-Dichlorobenzene	17.25	146	915631	4.130	ppbv #	73
79) Naphthalene	22.49	128	242830	0.972	ppbv	96
80) Naphthalene,2-methyl-	25.17	142	16214	0.209	ppbv #	76

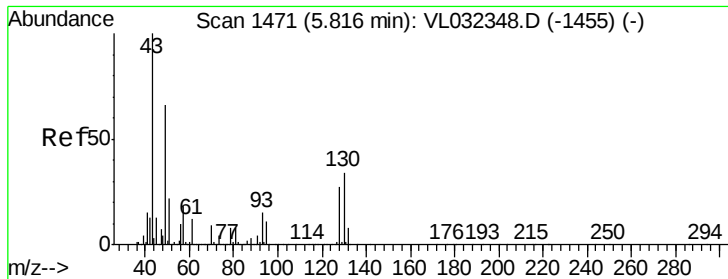
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1472

Delta R.T. 0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

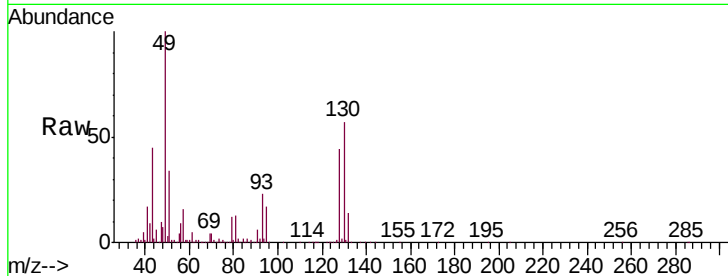
Tgt Ion: 49 Resp: 1625539

Ion Ratio Lower Upper

49 100

128 43.4 20.5 61.6

130 56.1 26.2 78.5



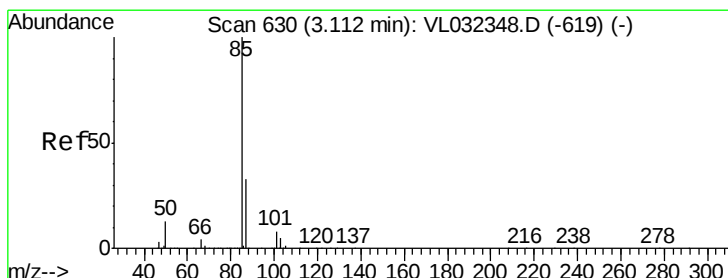
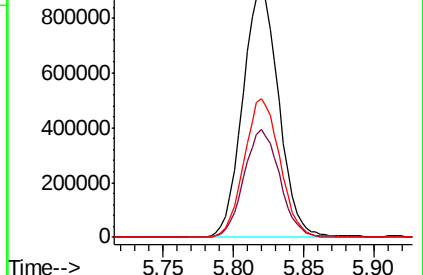
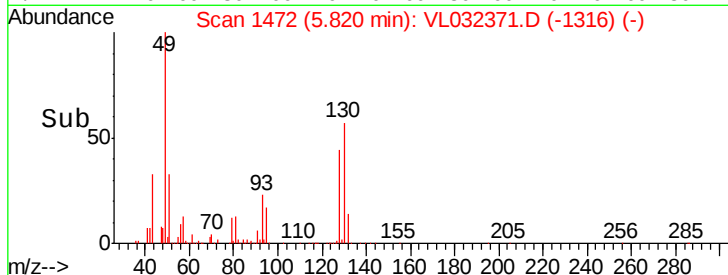
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.82

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032371.D

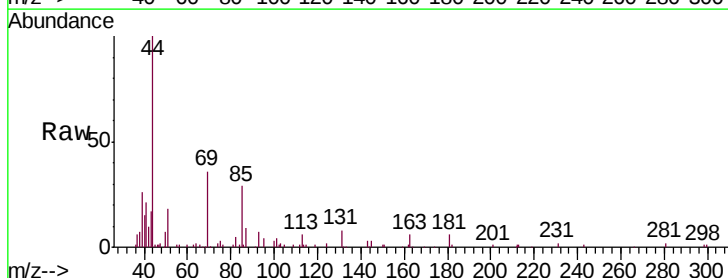
Acq: 16 Aug 2018 4:34

Tgt Ion: 85 Resp: 17357

Ion Ratio Lower Upper

85 100

87 32.4 26.3 39.5

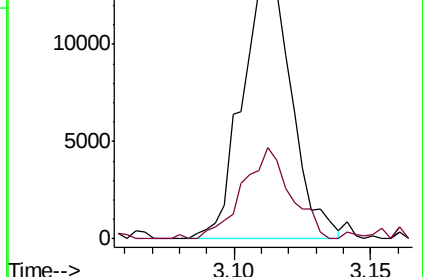
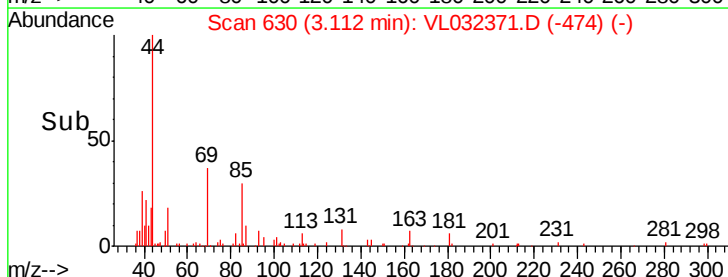


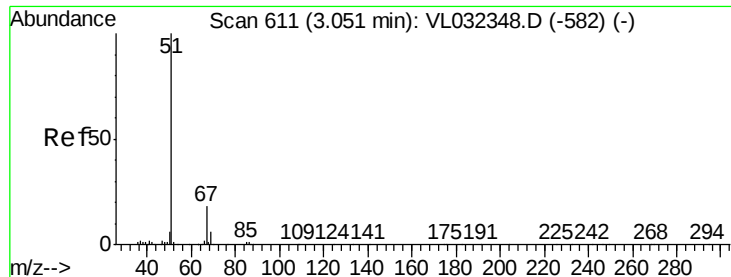
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.11

Time-->





#3

Chlorodifluoromethane

Concen: 0.188 ppbv

RT: 3.04 min Scan# 609

Delta R.T. -0.01 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

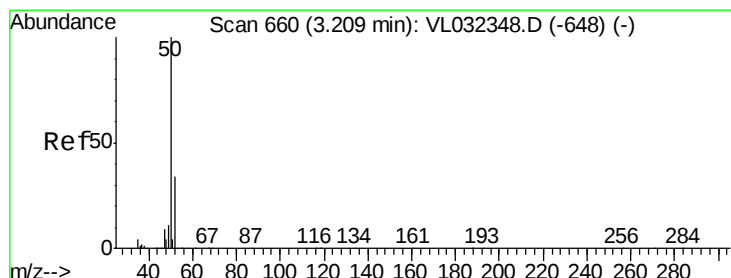
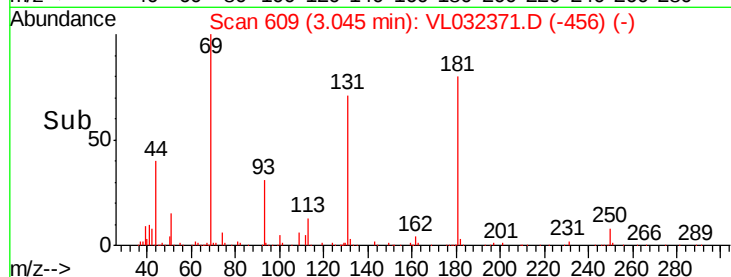
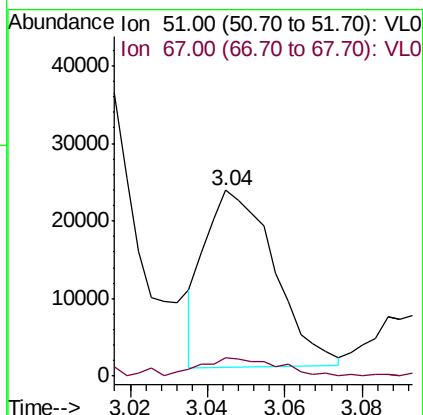
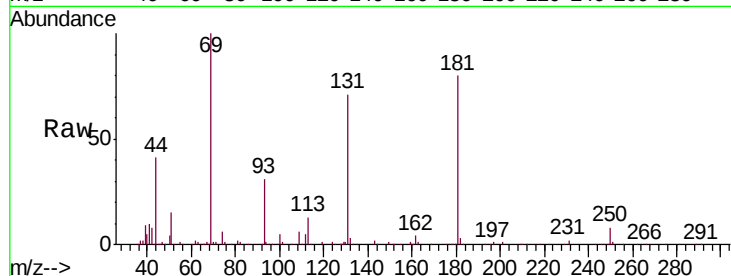
SG07-MIVI

Tgt Ion: 51 Resp: 28373

Ion Ratio Lower Upper

51 100

67 10.5 13.7 20.5#



#4

Chloromethane

Concen: 1.037 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032371.D

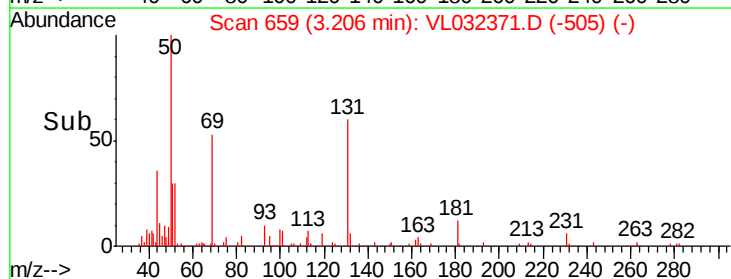
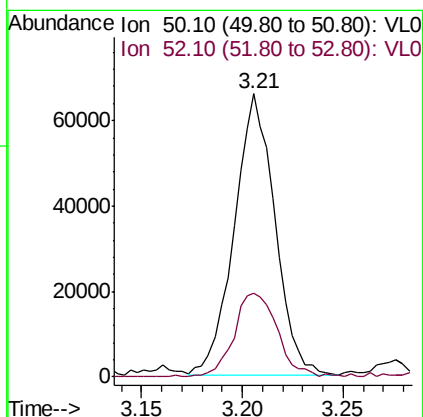
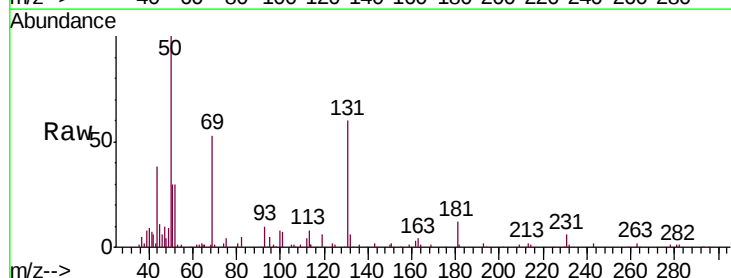
Acq: 16 Aug 2018 4:34

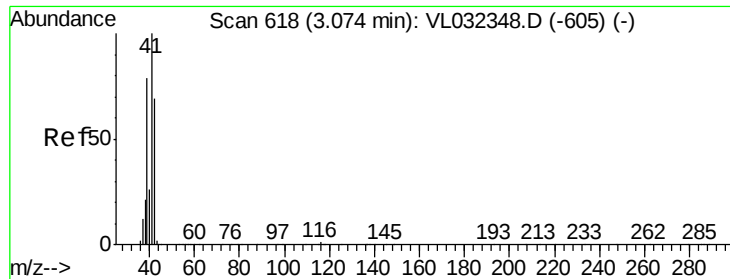
Tgt Ion: 50 Resp: 92906

Ion Ratio Lower Upper

50 100

52 29.5 26.8 40.2





#9

Propene

Concen: 41.809 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

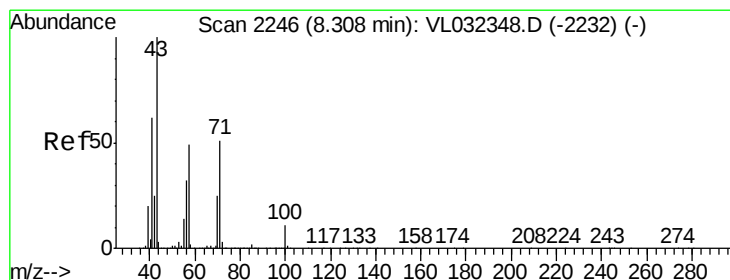
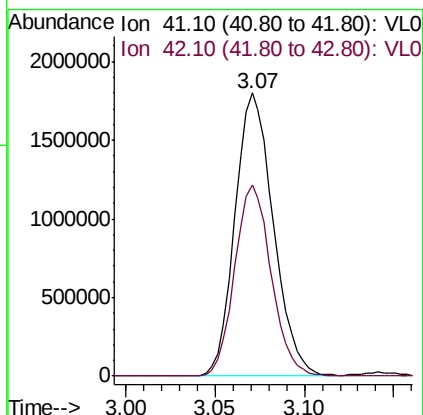
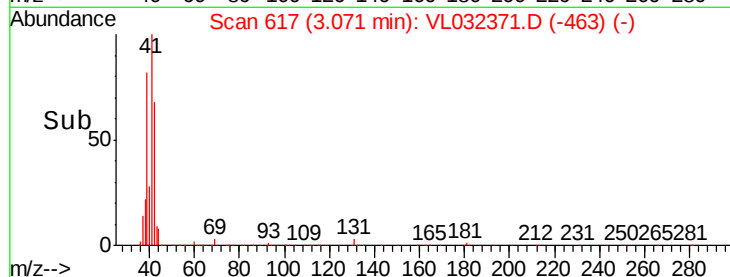
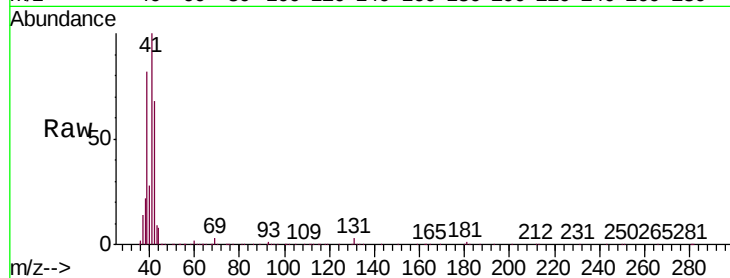
SG07-MIVI

Tgt Ion: 41 Resp: 2694381

Ion Ratio Lower Upper

41 100

42 64.4 55.9 83.9



#10

Heptane

Concen: 3.538 ppbv

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032371.D

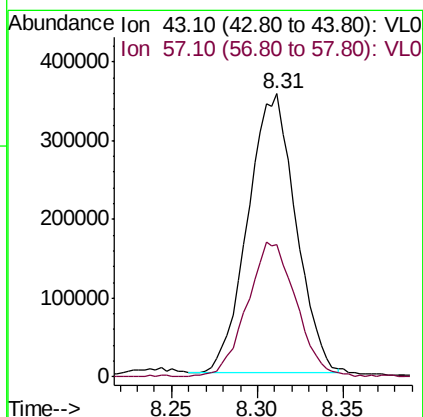
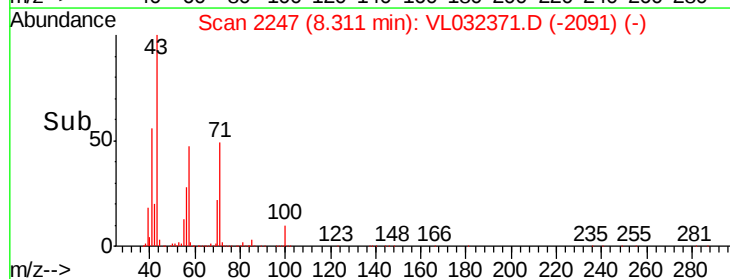
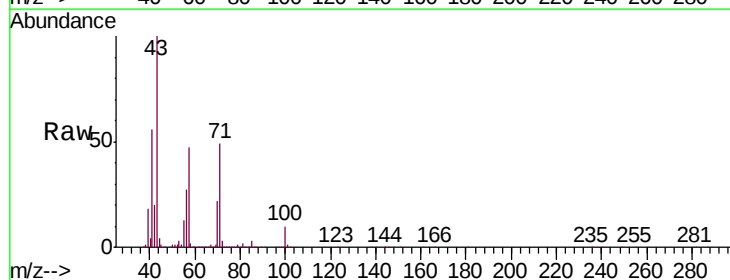
Acq: 16 Aug 2018 4:34

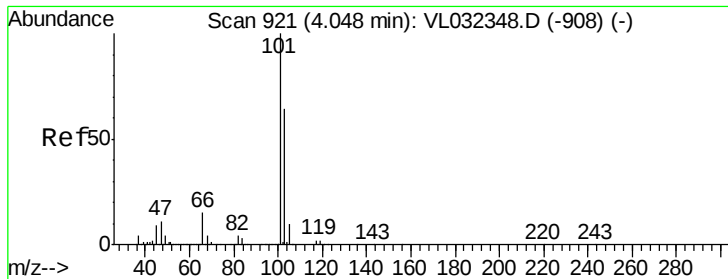
Tgt Ion: 43 Resp: 686818

Ion Ratio Lower Upper

43 100

57 49.7 39.5 59.3

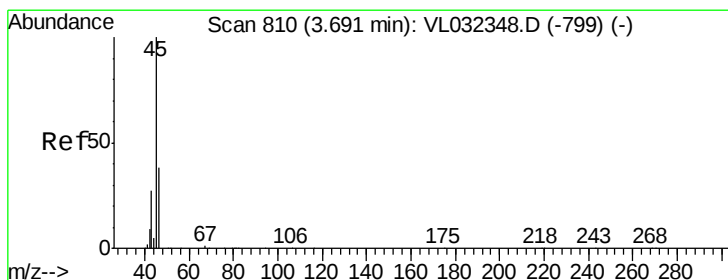
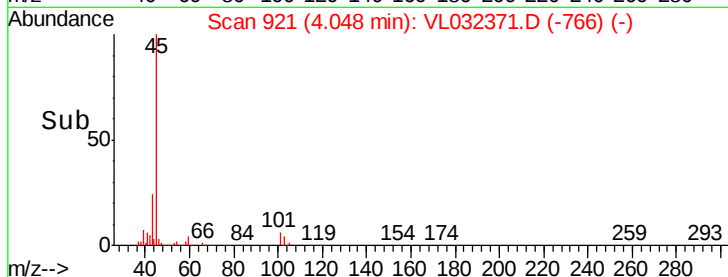
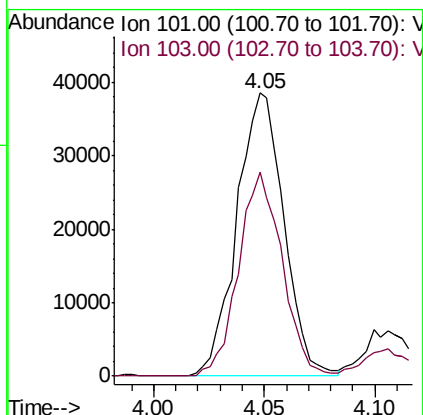
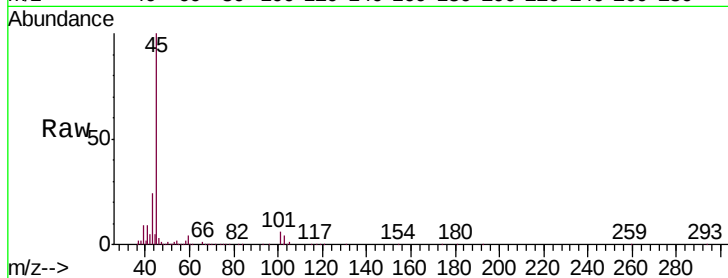




#11
 Trichlorofluoromethane
 Concen: 0.314 ppbv
 RT: 4.05 min Scan# 921
 Delta R.T. -0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

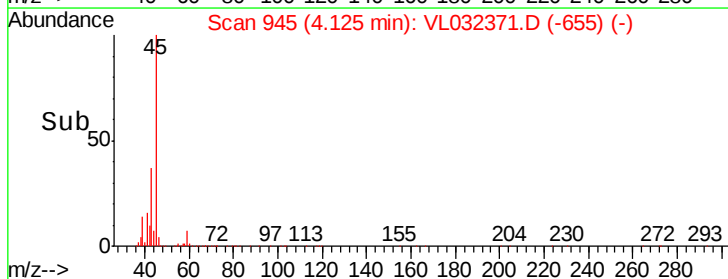
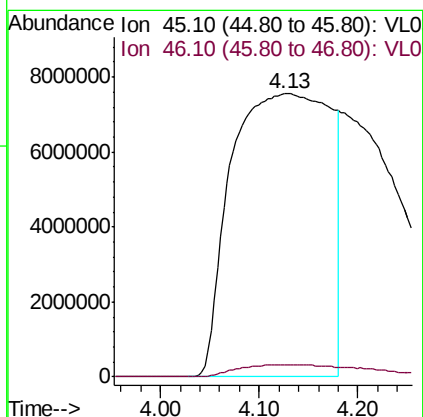
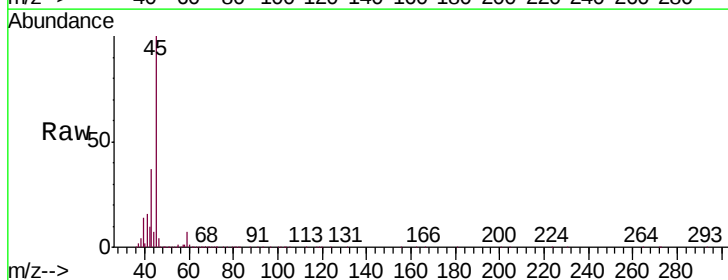
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

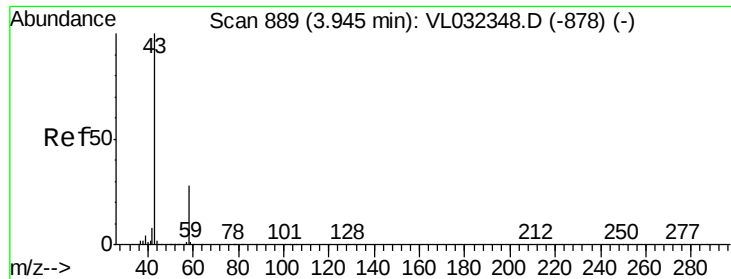
Tgt Ion: 101 Resp: 57124
 Ion Ratio Lower Upper
 101 100
 103 71.9 51.4 77.0



#13
 Ethanol
 Concen: 3164.732 ppbv
 RT: 4.13 min Scan# 945
 Delta R.T. 0.43 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion: 45 Resp: 52382227
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.6 62.4#





#15

Acetone

Concen: 61.546 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

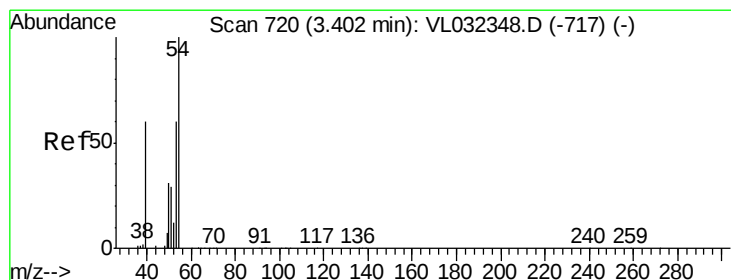
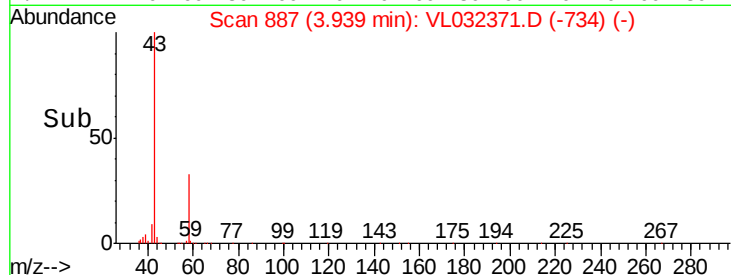
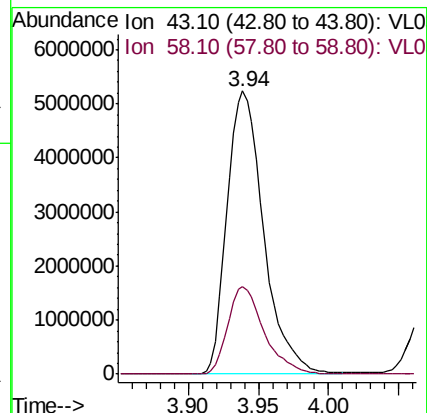
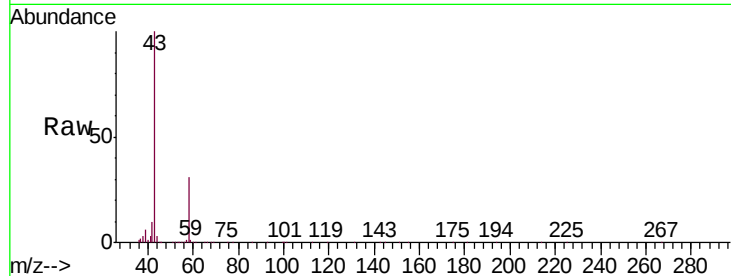
SG07-MIVI

Tgt Ion: 43 Resp: 9505242

Ion Ratio Lower Upper

43 100

58 30.5 22.4 33.6



#16

1,3-Butadiene

Concen: 24.892 ppbv

RT: 3.38 min Scan# 714

Delta R.T. -0.02 min

Lab File: VL032371.D

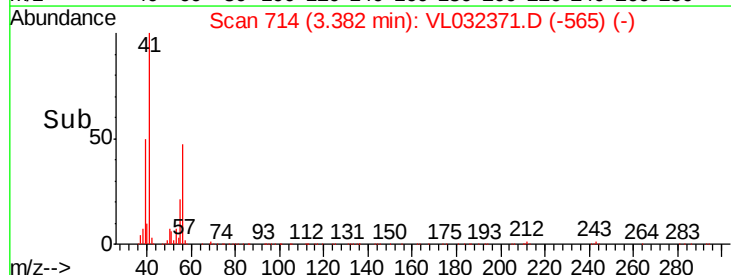
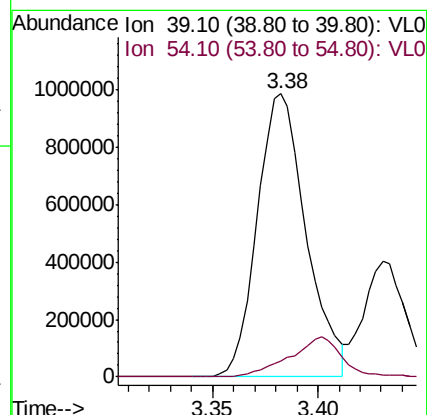
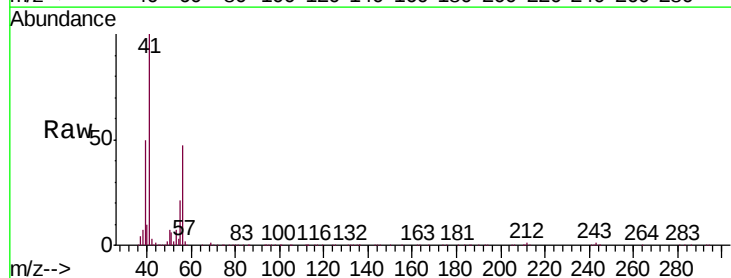
Acq: 16 Aug 2018 4:34

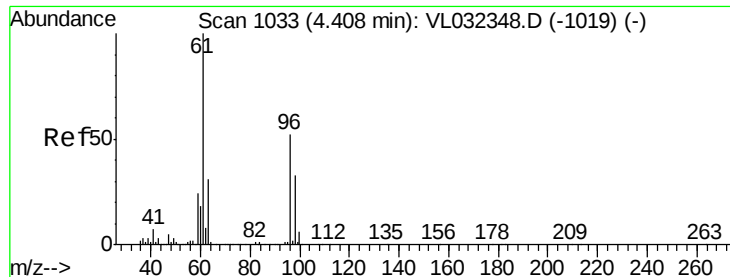
Tgt Ion: 39 Resp: 1587200

Ion Ratio Lower Upper

39 100

54 15.3 85.5 128.3#





#17

tert-Butyl alcohol

Concen: 73.274 ppbv

RT: 4.16 min Scan# 957

Delta R.T. -0.24 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

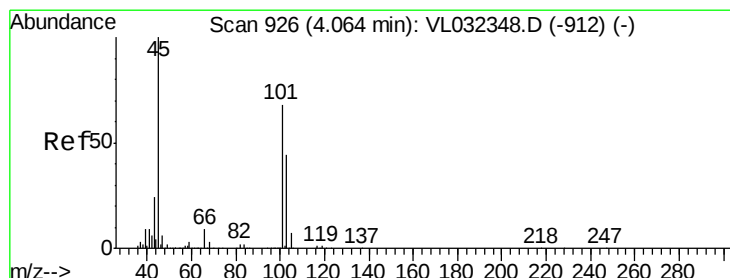
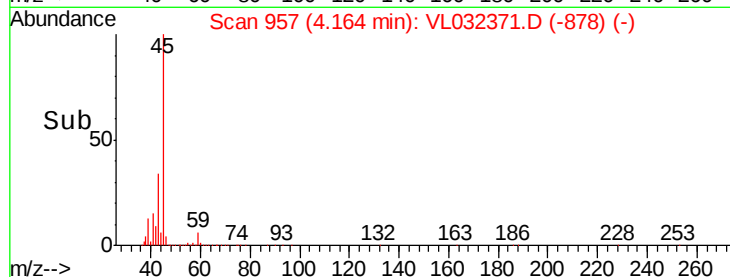
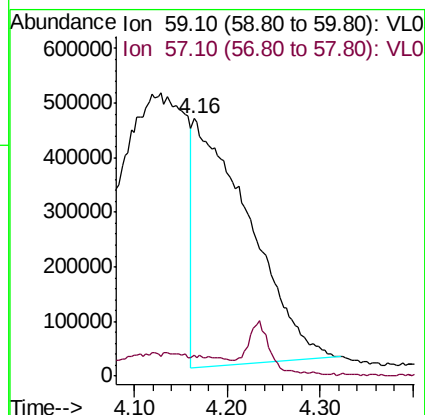
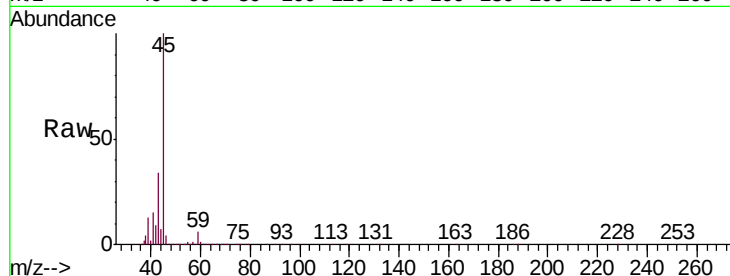
SG07-MIVI

Tgt Ion: 59 Resp: 1898853

Ion Ratio Lower Upper

59 100

57 4.9 7.6 11.4#



#19

Isopropyl Alcohol

Concen: 860.380 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.06 min

Lab File: VL032371.D

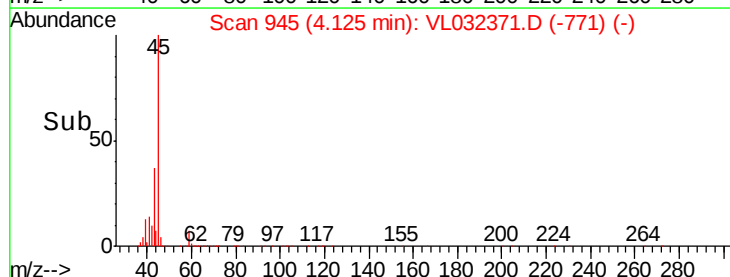
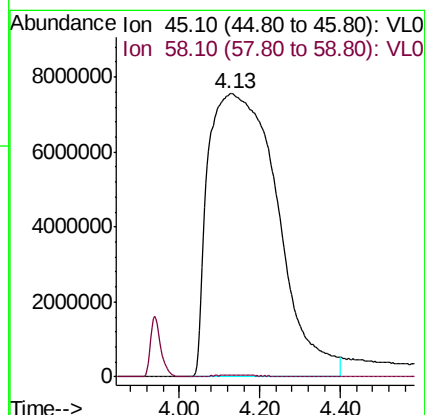
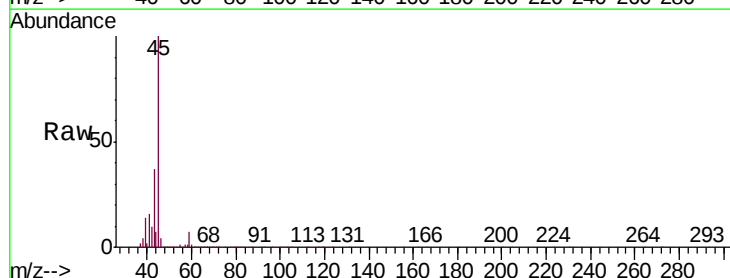
Acq: 16 Aug 2018 4:34

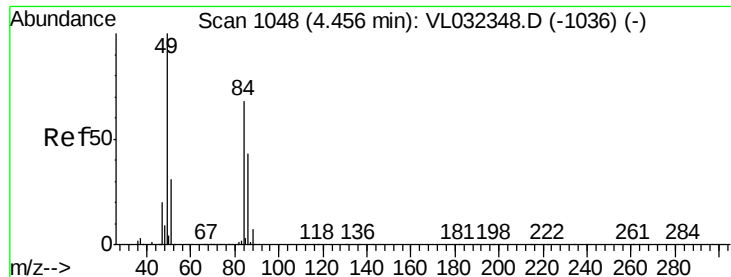
Tgt Ion: 45 Resp: 89478267

Ion Ratio Lower Upper

45 100

58 0.4 1.4 2.0#





#20

Methylene Chloride

Concen: 2.198 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

Tgt Ion: 84 Resp: 128220

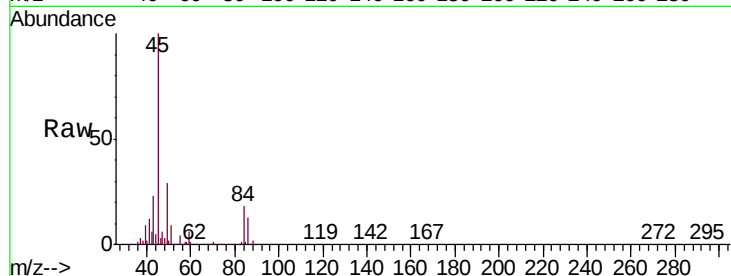
Ion Ratio Lower Upper

84 100

49 155.1 117.3 175.9

51 42.9 36.6 55.0

86 70.4 49.8 74.8

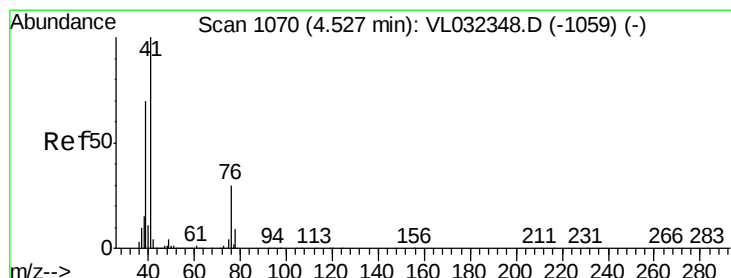
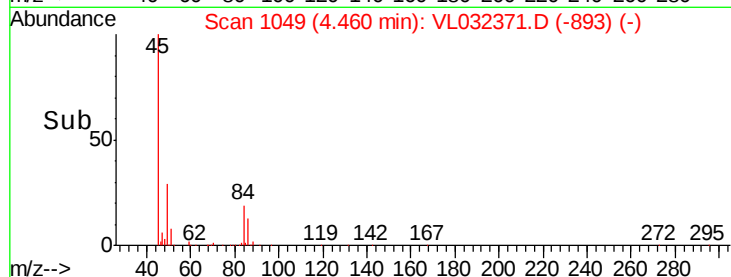
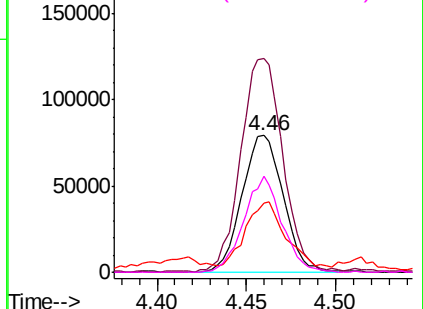


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.886 ppbv

RT: 4.79 min Scan# 1151

Delta R.T. 0.26 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

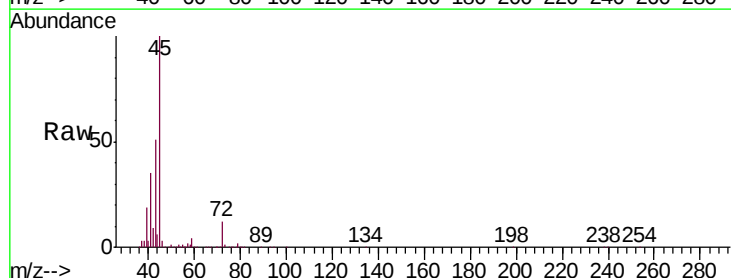
Tgt Ion: 41 Resp: 86328

Ion Ratio Lower Upper

41 100

76 316.8 22.9 34.3#

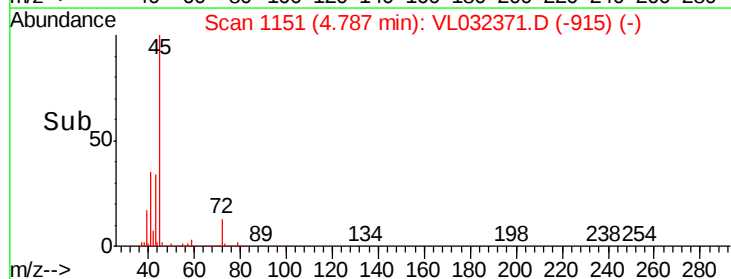
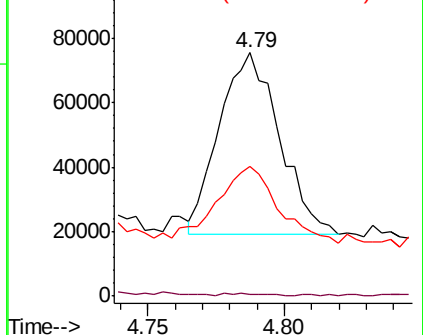
39 339.0 57.6 86.4#

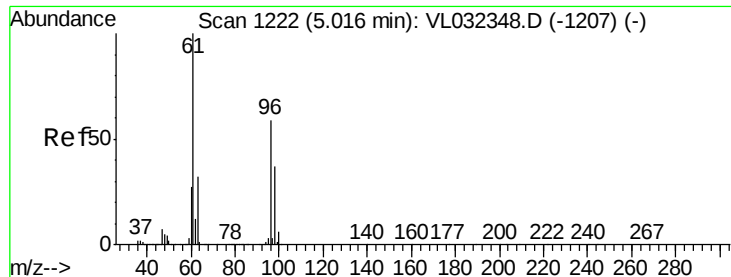


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.063 ppbv

RT: 5.02 min Scan# 1224

Delta R.T. 0.01 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

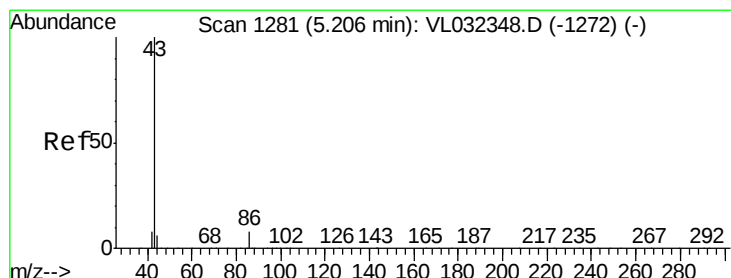
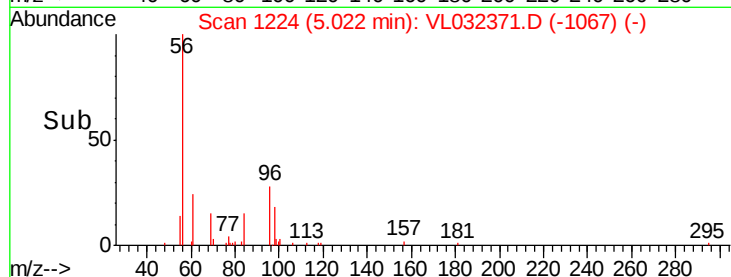
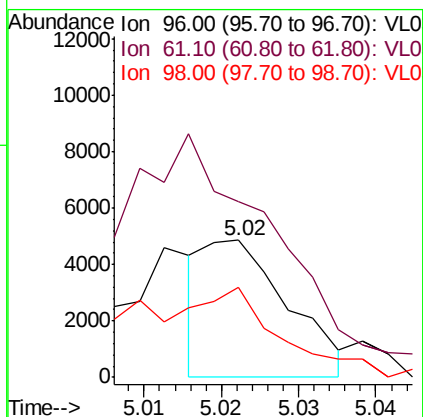
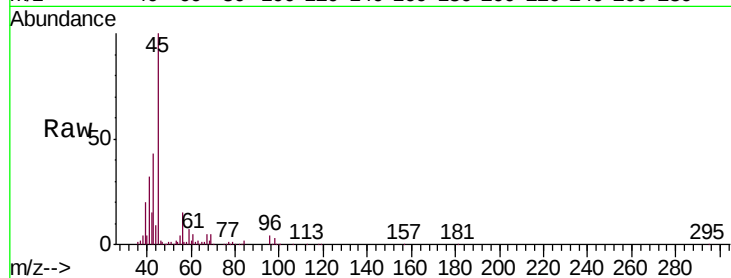
Tgt Ion: 96 Resp: 3628

Ion Ratio Lower Upper

96 100

61 116.3 136.6 205.0#

98 79.4 50.6 76.0#



#23

Vinyl Acetate

Concen: 8.578 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Tgt Ion: 43 Resp: 2287620

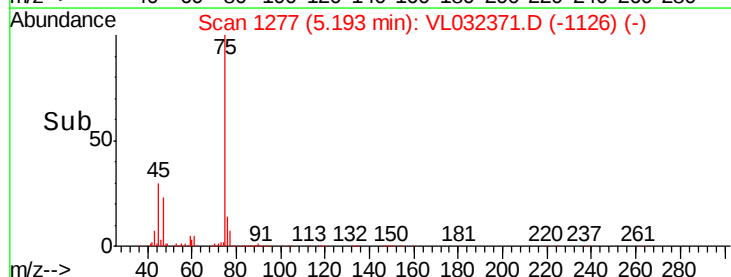
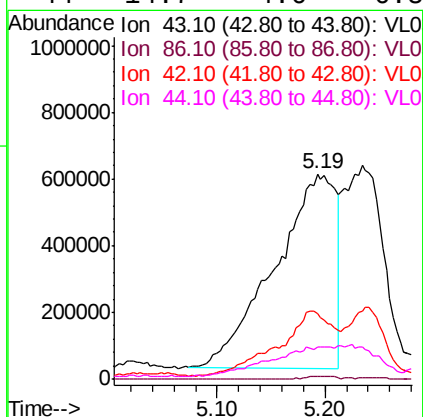
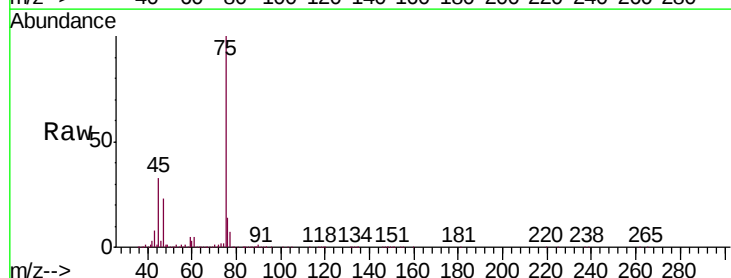
Ion Ratio Lower Upper

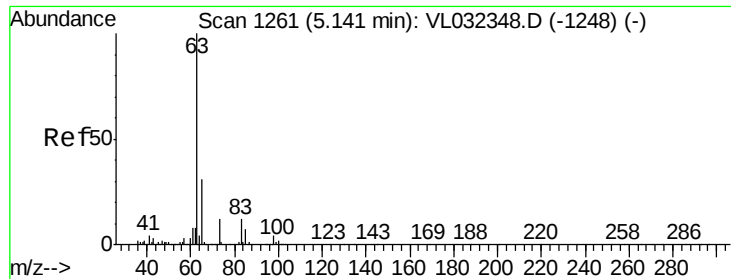
43 100

86 1.4 5.5 8.3#

42 32.4 7.0 10.6#

44 14.7 4.6 6.8#





#24

1,1-Dichloroethane

Concen: 0.100 ppbv

RT: 5.16 min Scan# 1266

Delta R.T. 0.02 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

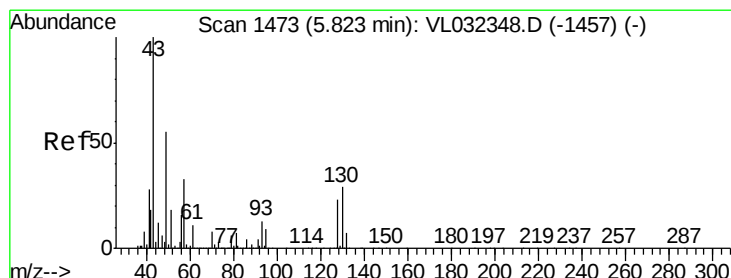
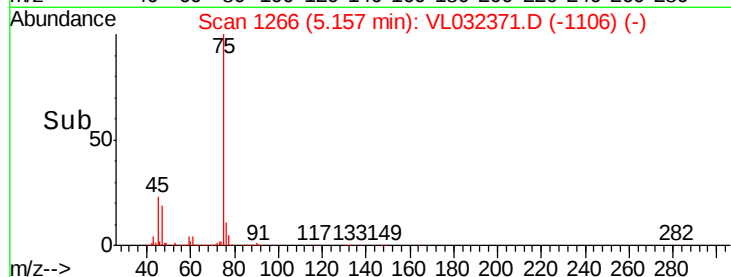
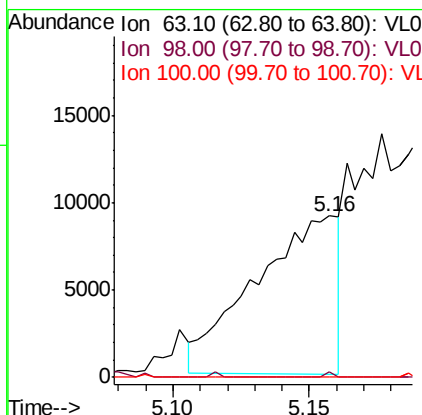
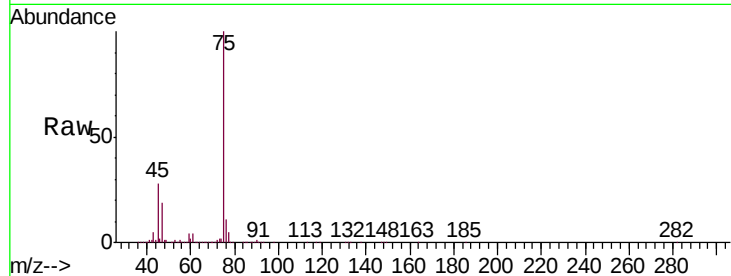
Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

Tgt Ion:	63	Resp:	19163
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.1	6.3
100	0.0	1.2	3.6#



#25

Ethyl Acetate

Concen: 2.757 ppbv

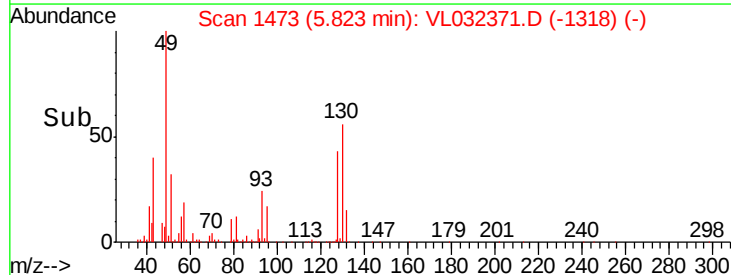
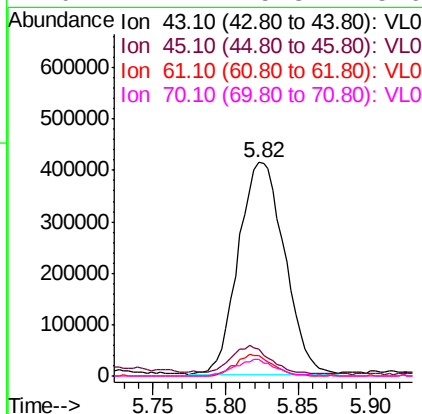
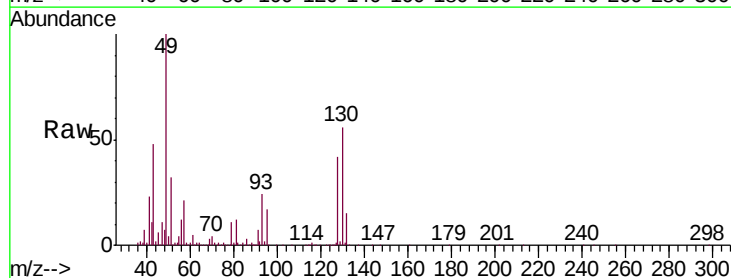
RT: 5.82 min Scan# 1473

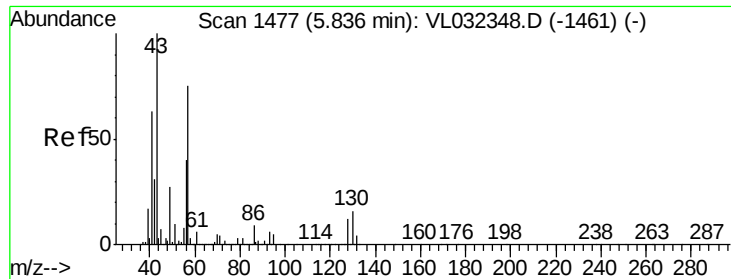
Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Tgt Ion:	43	Resp:	912443
Ion	Ratio	Lower	Upper
43	100		
45	11.7	7.9	11.9
61	8.1	7.4	11.2
70	7.1	5.8	8.6

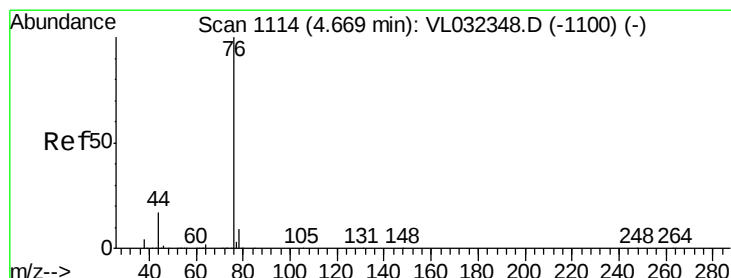
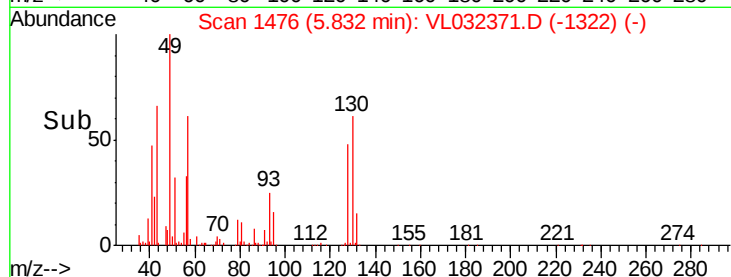
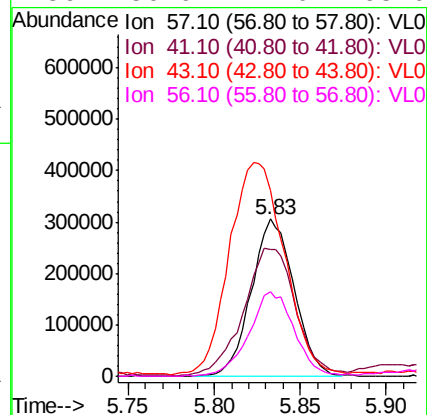
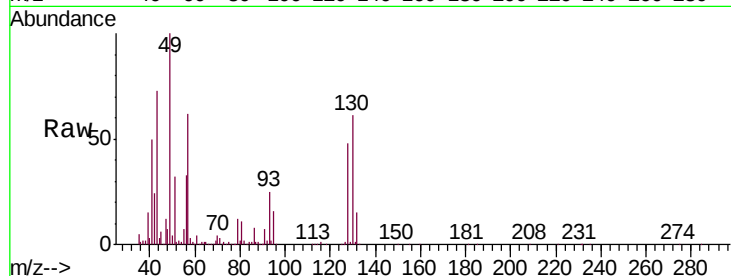




#26
Hexane
Concen: 3.562 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032371.D
Acq: 16 Aug 2018 4:34

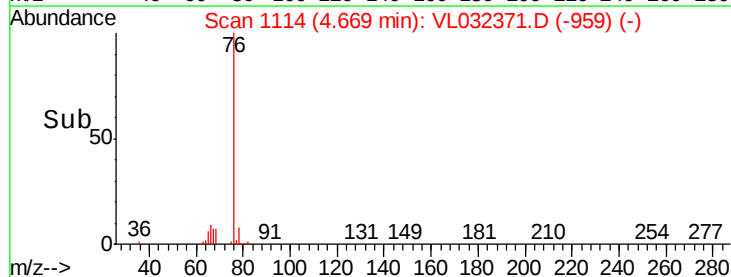
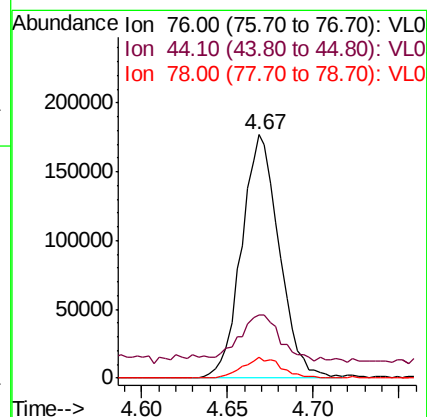
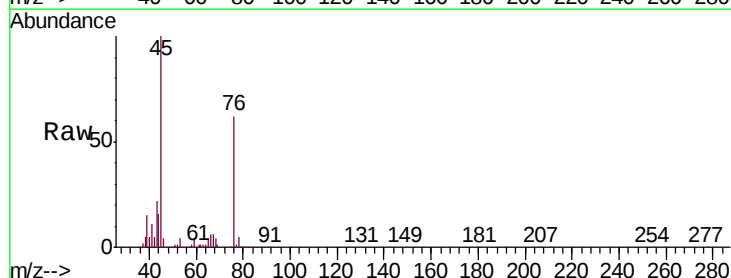
Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

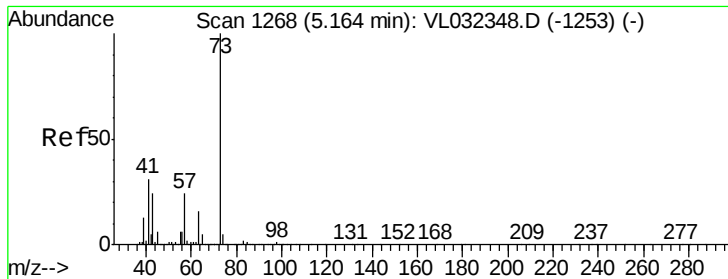
Tgt Ion:	57	Resp:	525597
Ion	Ratio	Lower	Upper
57	100		
41	96.5	68.0	102.0
43	171.5	175.3	262.9#
56	56.9	42.0	63.0



#27
Carbon Disulfide
Concen: 1.956 ppbv
RT: 4.67 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VL032371.D
Acq: 16 Aug 2018 4:34

Tgt Ion:	76	Resp:	269311
Ion	Ratio	Lower	Upper
76	100		
44	25.4	14.4	21.6#
78	9.0	7.4	11.0



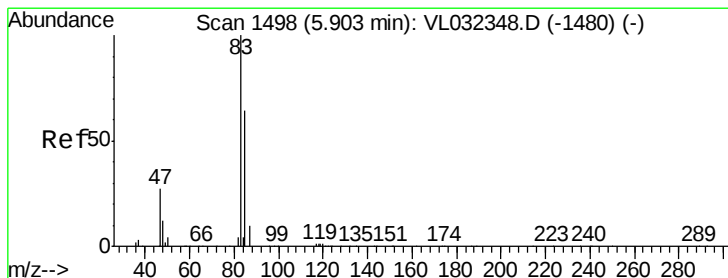
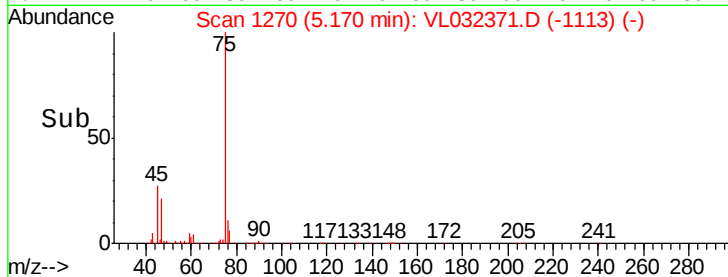
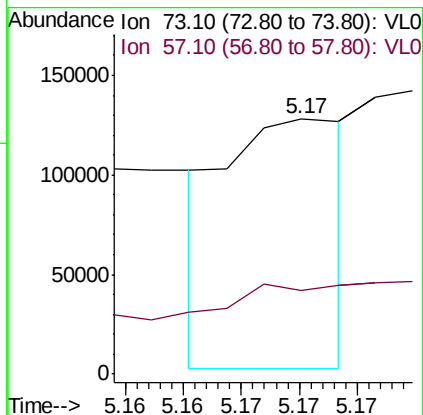
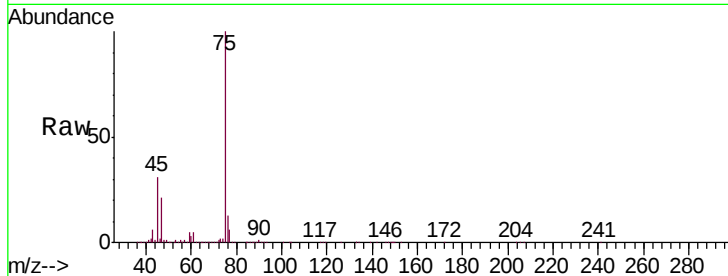


#28

Methyl tert-Butyl Ether
 Concen: 0.463 ppbv
 RT: 5.17 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

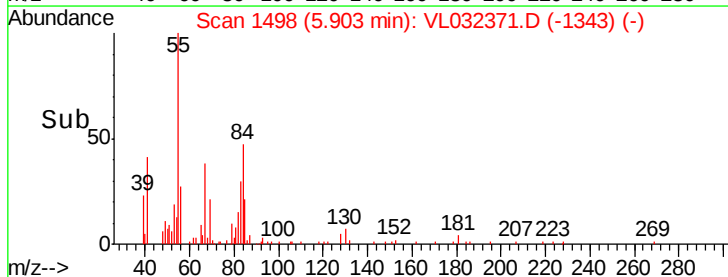
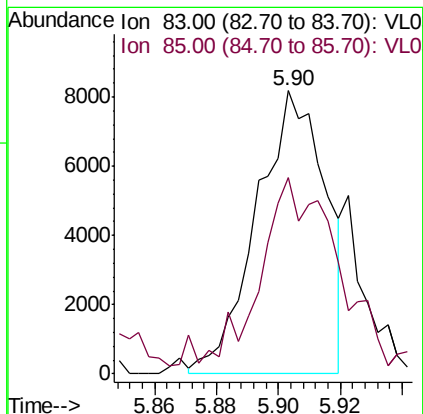
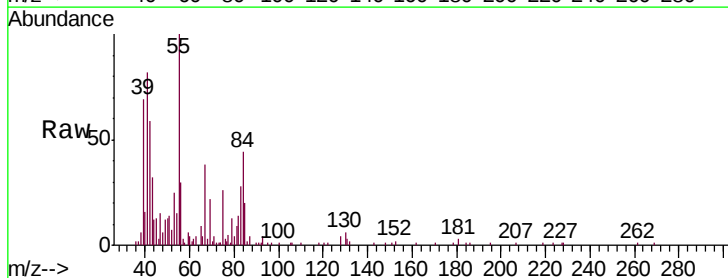
Tgt Ion: 73 Resp: 90735
 Ion Ratio Lower Upper
 73 100
 57 0.0 19.3 28.9#

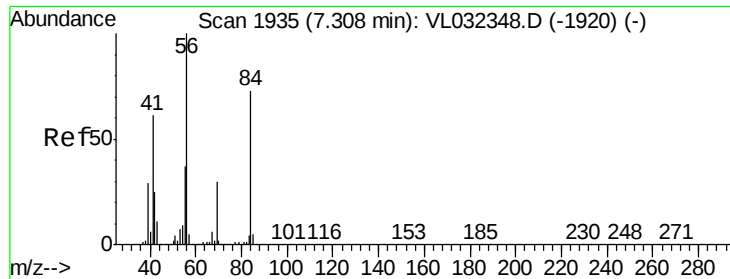


#29

Chloroform
 Concen: 0.058 ppbv
 RT: 5.90 min Scan# 1498
 Delta R.T. -0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion: 83 Resp: 12597
 Ion Ratio Lower Upper
 83 100
 85 56.7 51.6 77.4

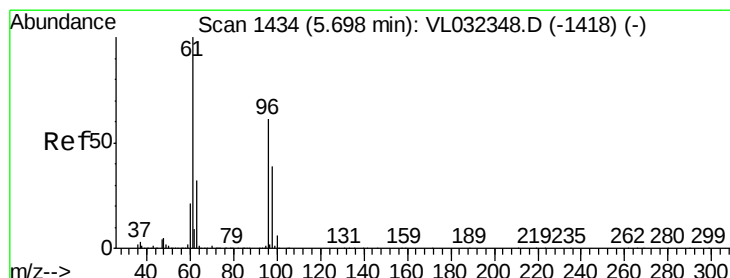
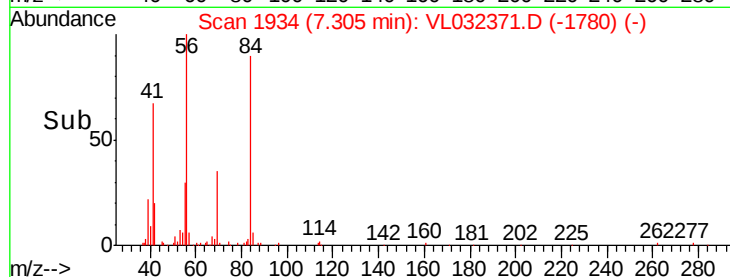
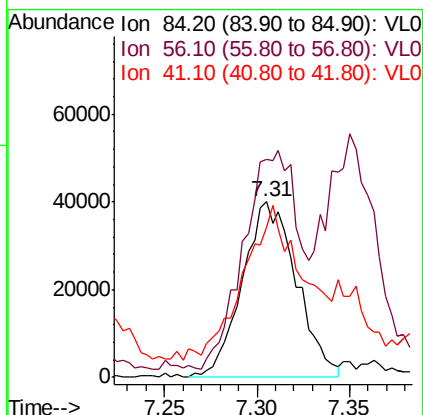
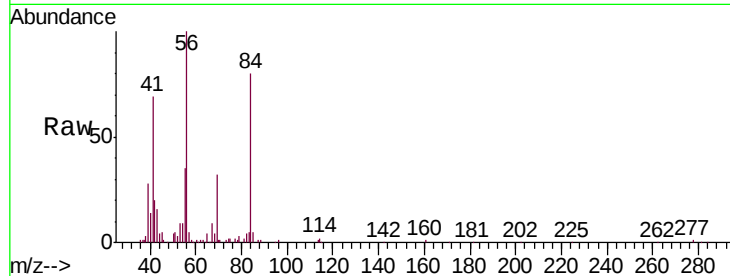




#30
Cyclohexane
Concen: 0.721 ppbv
RT: 7.31 min Scan# 1934
Delta R.T. -0.00 min
Lab File: VL032371.D
Acq: 16 Aug 2018 4:34

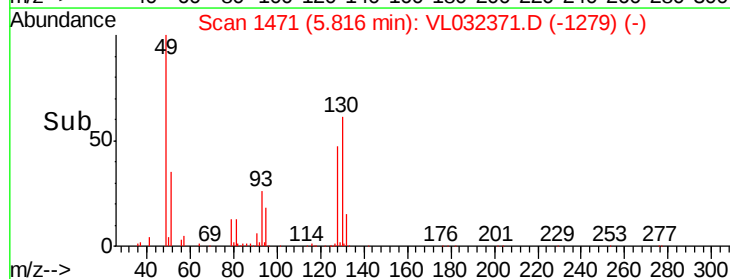
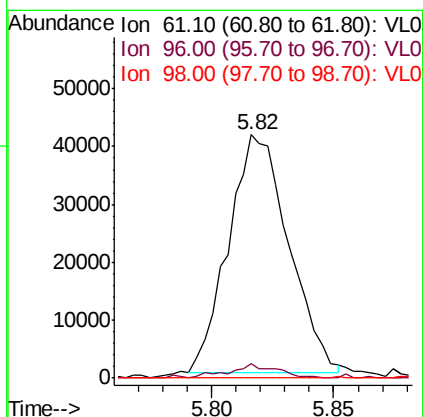
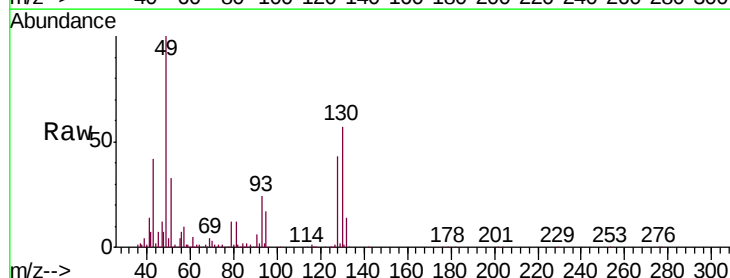
Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

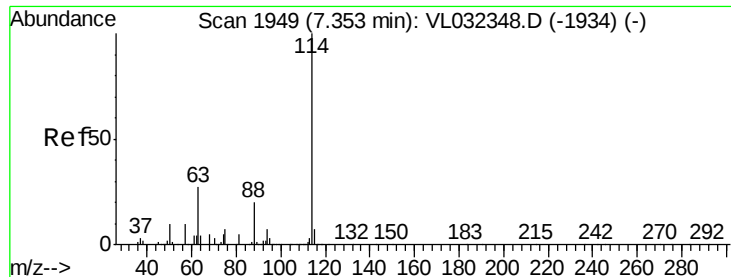
Tgt Ion: 84 Resp: 81048
Ion Ratio Lower Upper
84 100
56 128.7 115.7 173.5
41 140.2 67.9 101.9#



#31
cis-1,2-Dichloroethene
Concen: 0.489 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. 0.12 min
Lab File: VL032371.D
Acq: 16 Aug 2018 4:34

Tgt Ion: 61 Resp: 70606
Ion Ratio Lower Upper
61 100
96 5.8 48.5 72.7#
98 0.0 31.0 46.4#

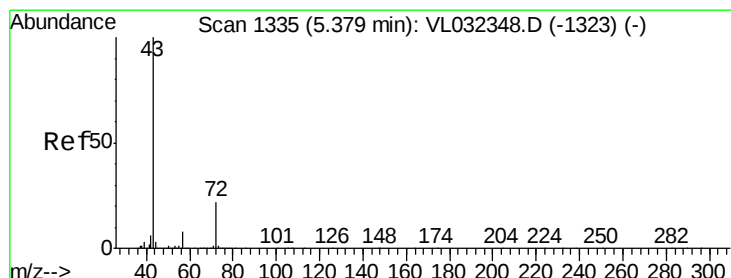
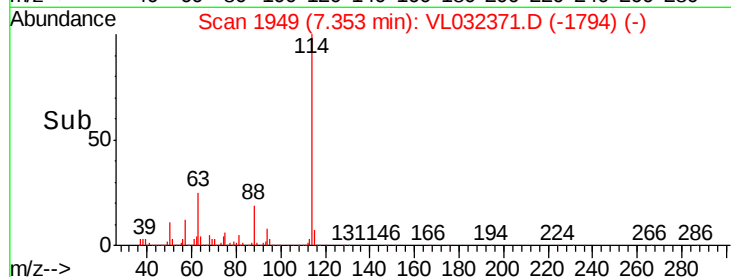
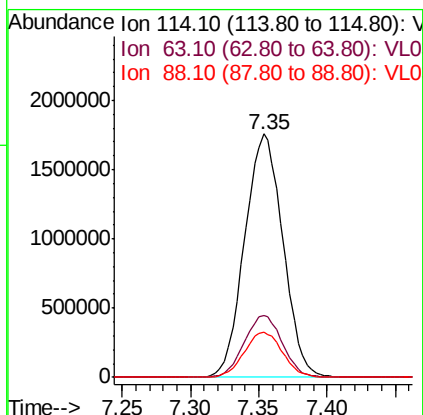
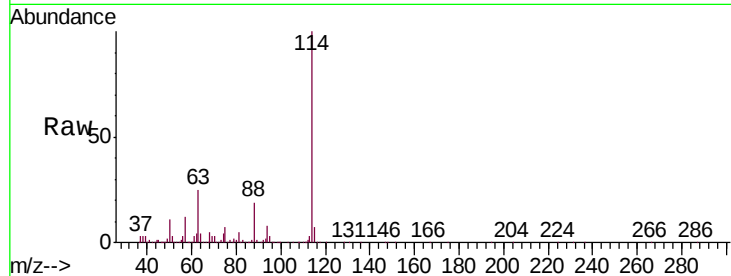




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1949
 Delta R.T. -0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

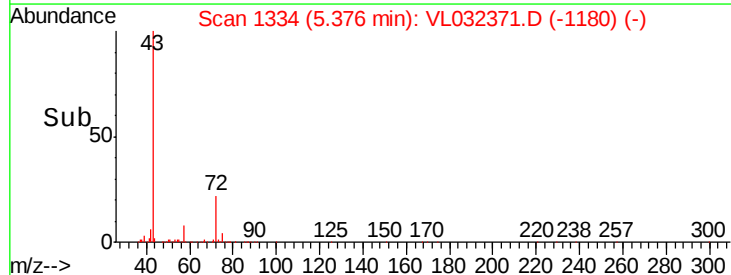
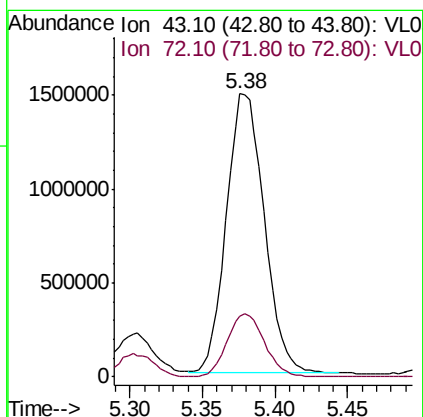
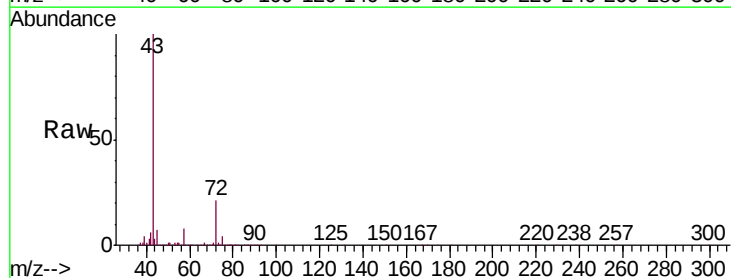
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

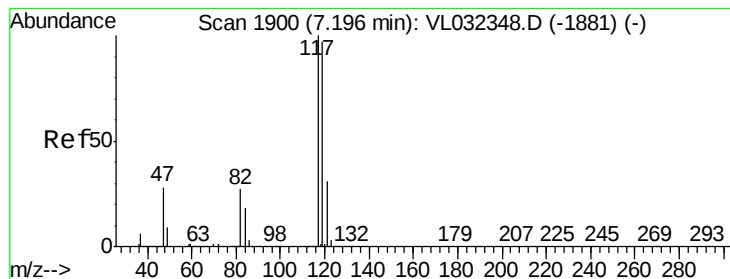
Tgt Ion:114 Resp: 3419457
 Ion Ratio Lower Upper
 114 100
 63 25.6 22.0 33.0
 88 18.6 15.3 22.9



#34
 2-Butanone
 Concen: 11.531 ppbv
 RT: 5.38 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion: 43 Resp: 2683612
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.9 26.9





#35

Carbon Tetrachloride

Concen: 1.914 ppbv

RT: 7.16 min Scan# 1889

Delta R.T. -0.04 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

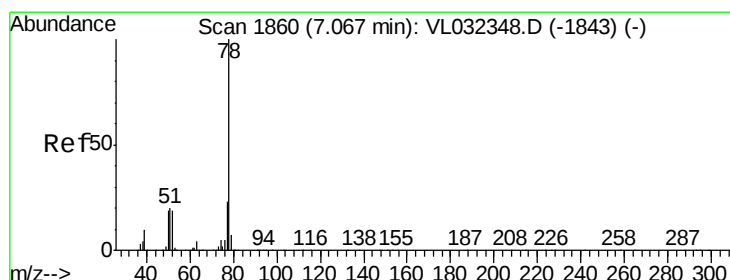
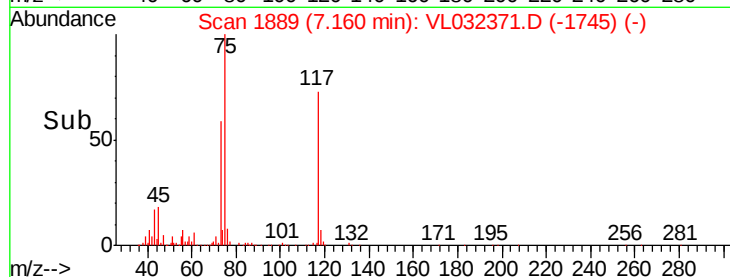
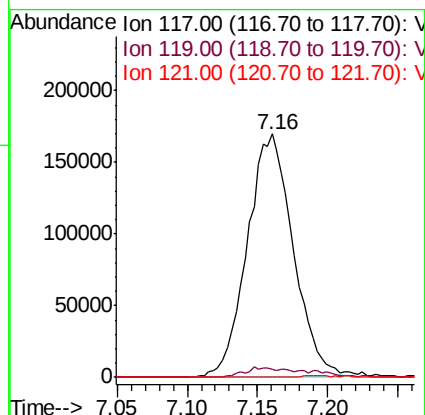
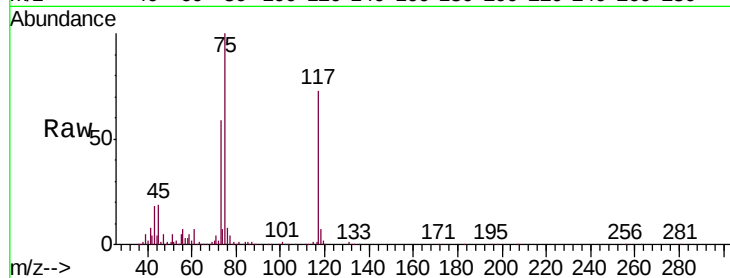
Tgt Ion:117 Resp: 385806

Ion Ratio Lower Upper

117 100

119 3.4 77.2 115.8#

121 0.0 25.1 37.7#



#36

Benzene

Concen: 1.411 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

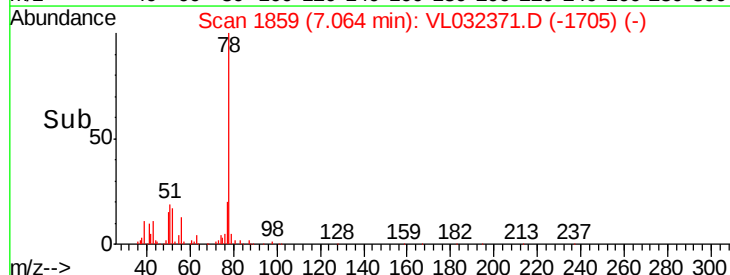
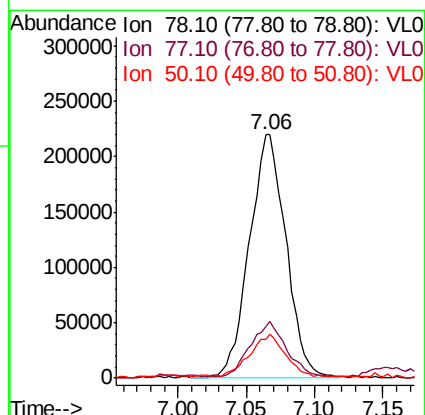
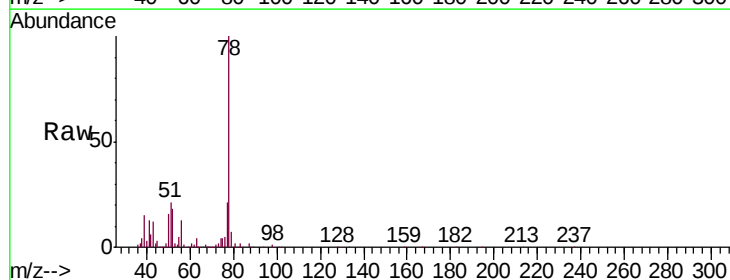
Tgt Ion: 78 Resp: 409051

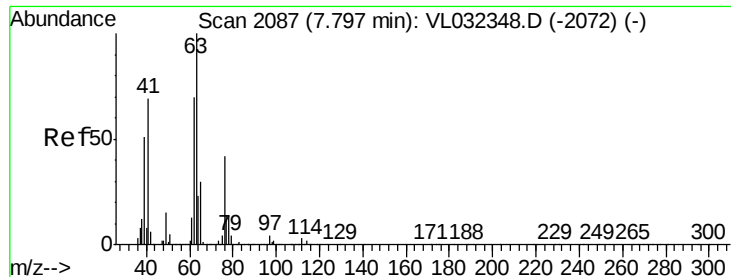
Ion Ratio Lower Upper

78 100

77 20.4 18.0 27.0

50 15.2 15.1 22.7

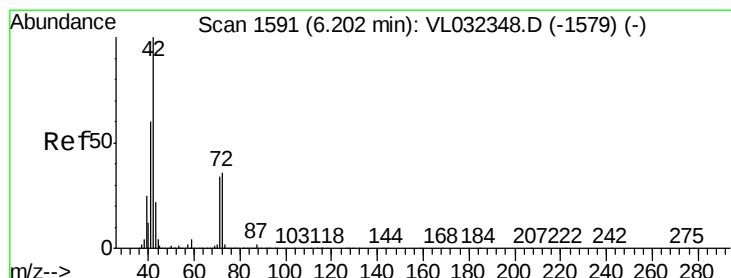
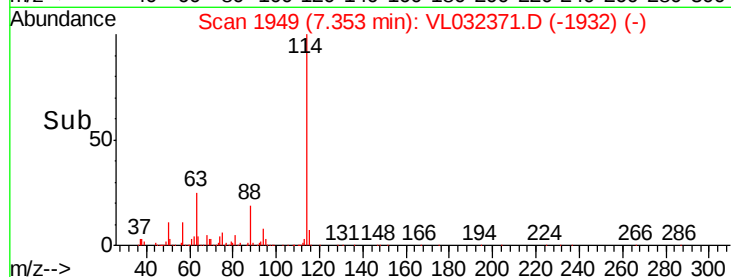
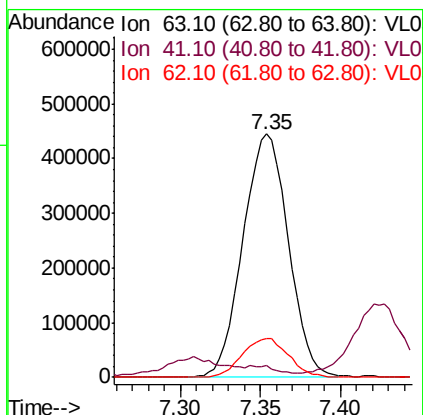
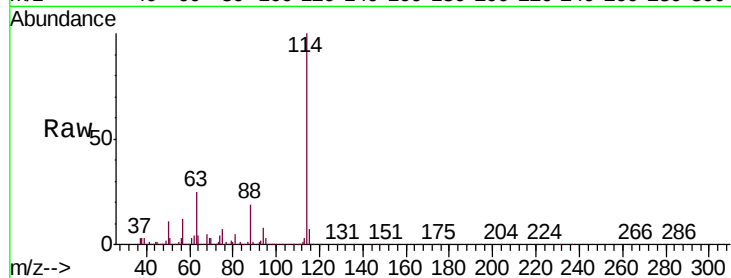




#39
 1,2-Dichloropropane
 Concen: 7.122 ppbv
 RT: 7.35 min Scan# 1949
 Delta R.T. -0.44 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

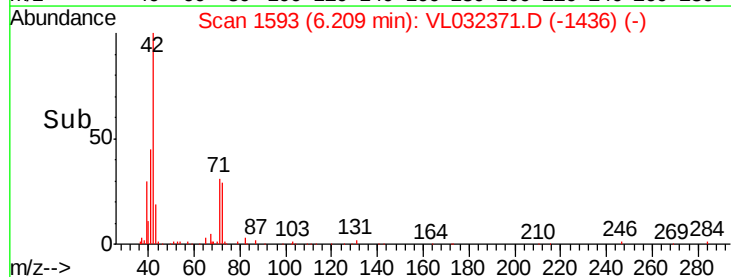
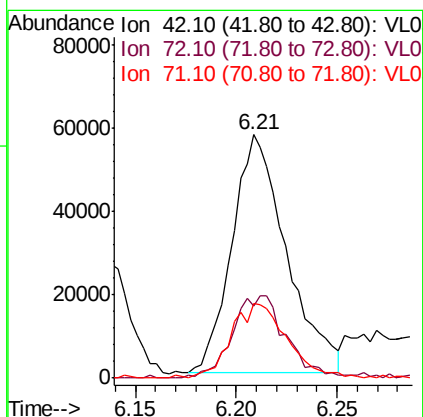
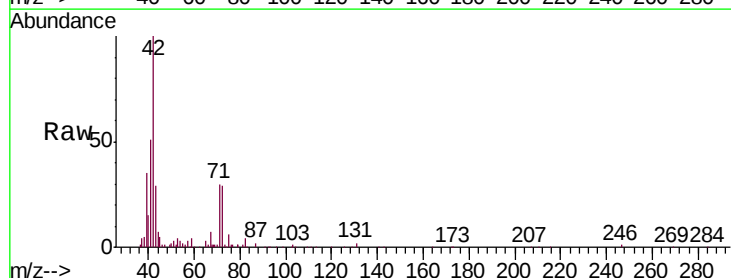
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

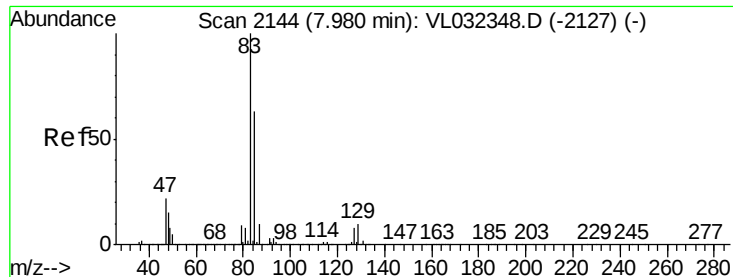
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.5	83.3#
62	15.7	56.3	84.5#



#41
 Tetrahydrofuran
 Concen: 0.868 ppbv
 RT: 6.21 min Scan# 1593
 Delta R.T. 0.01 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion	Ratio	Lower	Upper
42	100		
72	34.6	29.8	44.6
71	32.1	28.2	42.2





#42

Bromodichloromethane

Concen: 0.035 ppbv

RT: 7.98 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

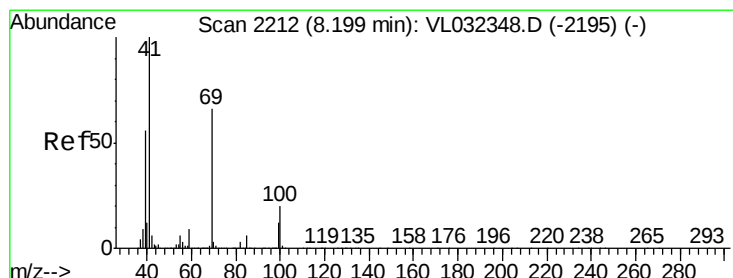
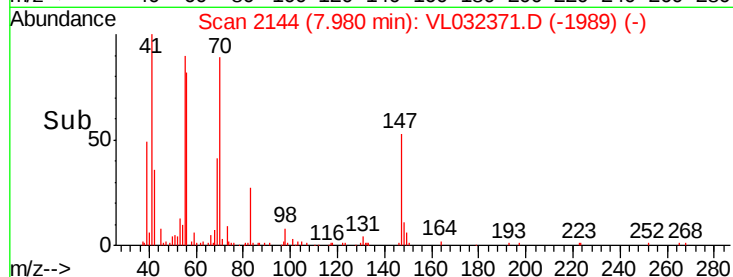
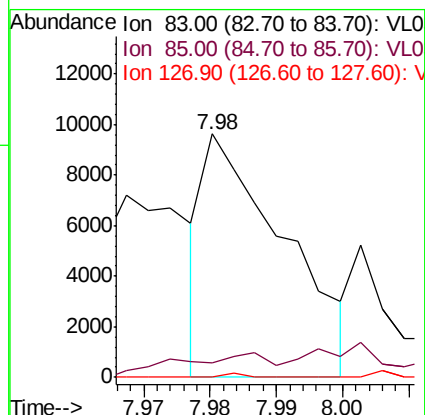
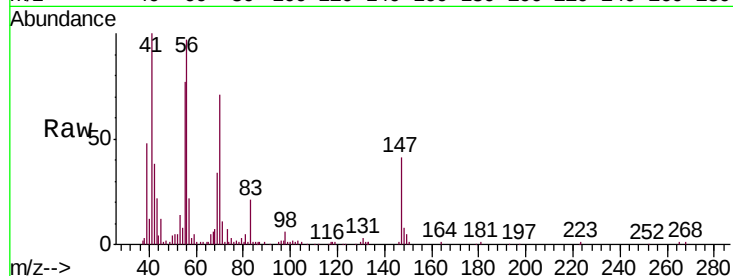
Tgt Ion: 83 Resp: 8129

Ion Ratio Lower Upper

83 100

85 0.0 50.4 75.6#

127 0.0 6.1 9.1#



#43

Methyl Methacrylate

Concen: 0.074 ppbv

RT: 8.20 min Scan# 2212

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

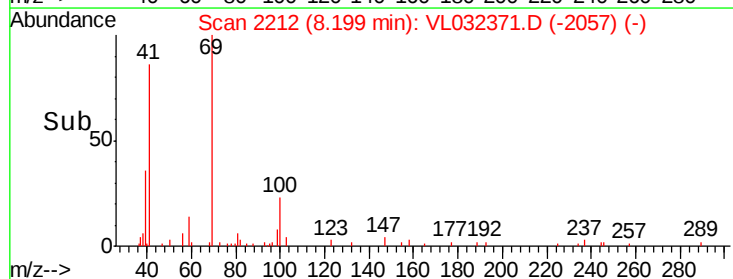
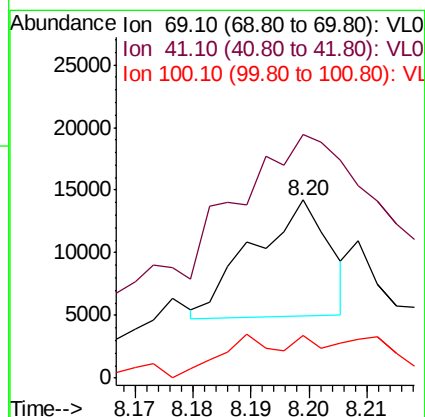
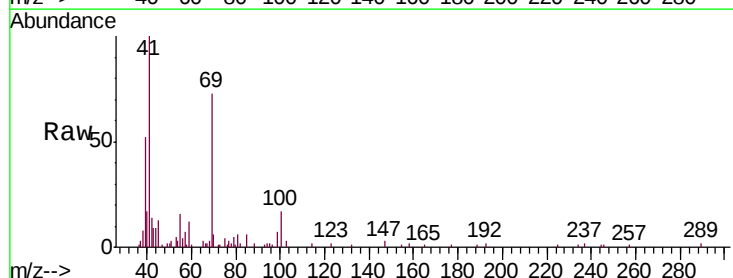
Tgt Ion: 69 Resp: 8510

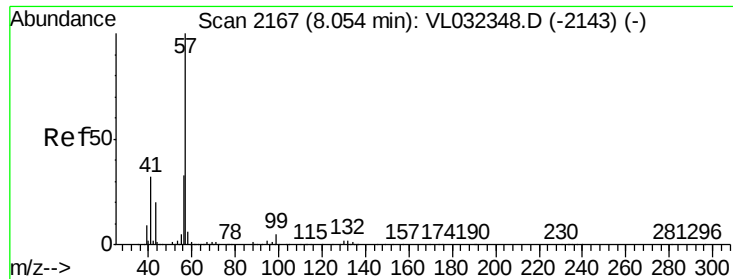
Ion Ratio Lower Upper

69 100

41 580.0 118.6 177.8#

100 74.5 23.4 35.2#

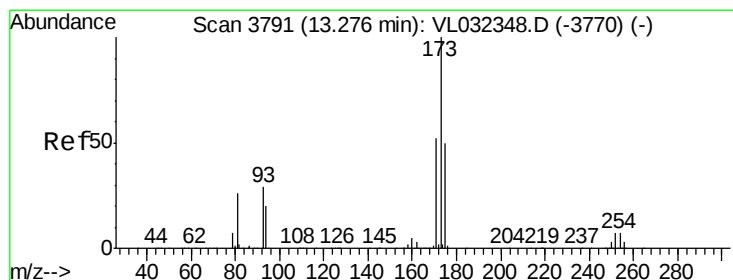
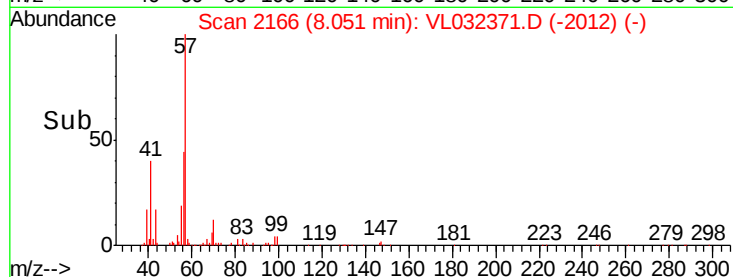
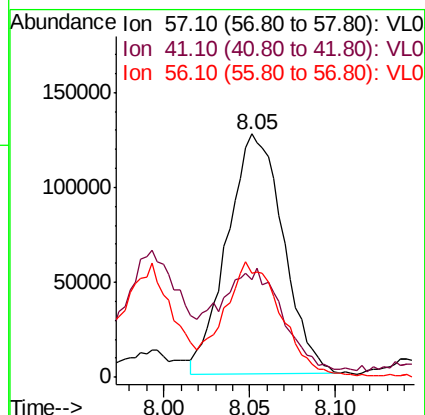
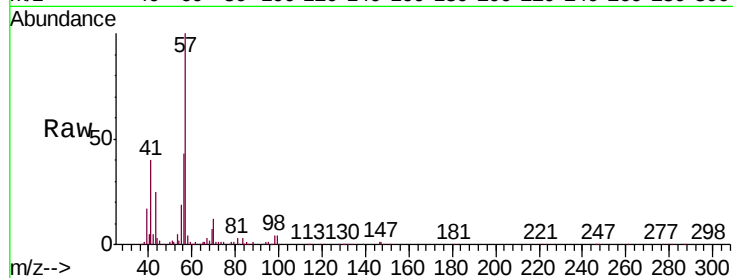




#44
 2,2,4-Trimethylpentane
 Concen: 0.550 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. -0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

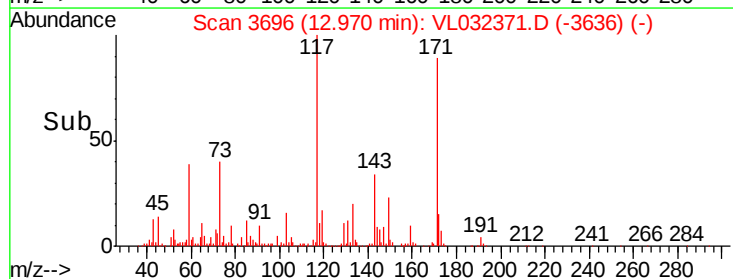
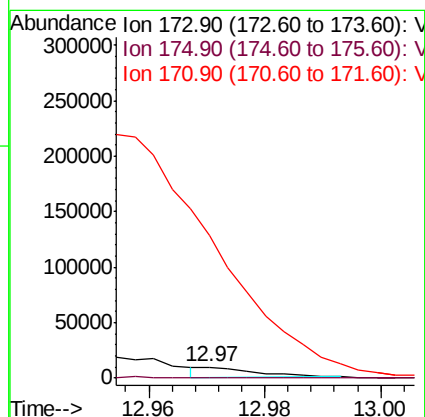
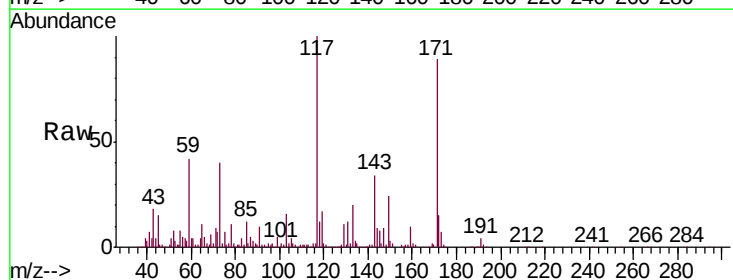
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

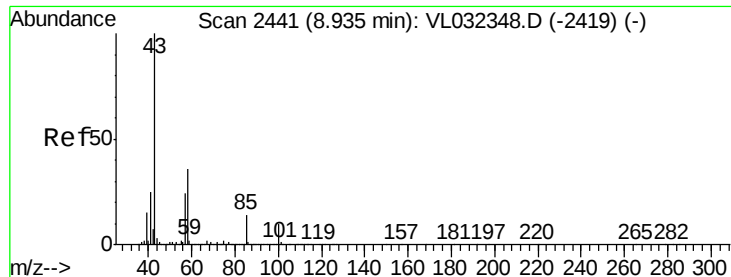
Tgt Ion: 57 Resp: 287470
 Ion Ratio Lower Upper
 57 100
 41 50.8 24.3 36.5#
 56 49.6 25.7 38.5#



#49
 Bromoform
 Concen: 0.038 ppbv
 RT: 12.97 min Scan# 3696
 Delta R.T. -0.31 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion: 173 Resp: 5599
 Ion Ratio Lower Upper
 173 100
 175 1.6 39.3 58.9#
 171 0.0 41.9 62.9#

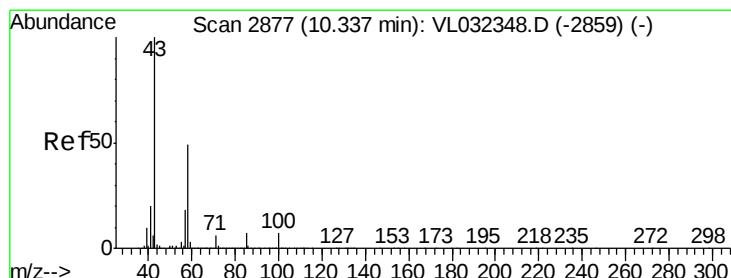
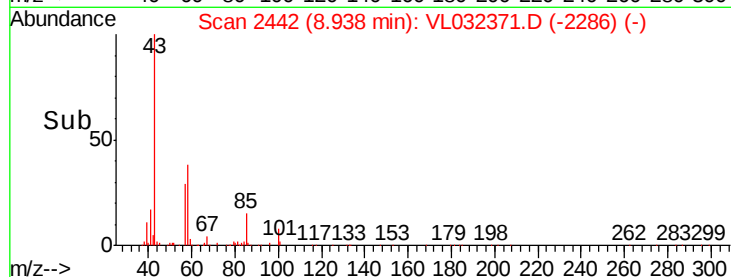
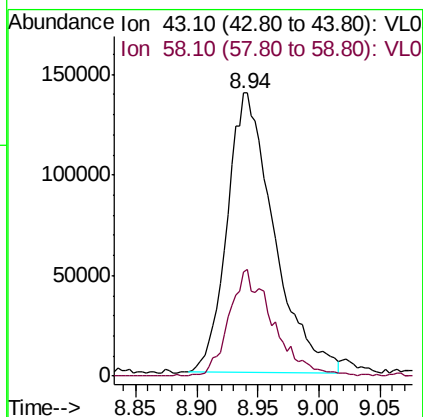
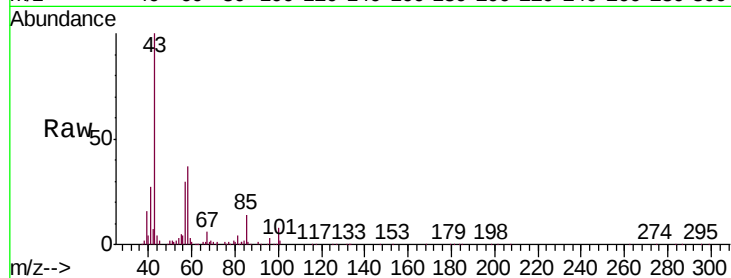




#50
 4-Methyl-2-Pentanone
 Concen: 1.106 ppbv
 RT: 8.94 min Scan# 2442
 Delta R.T. 0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

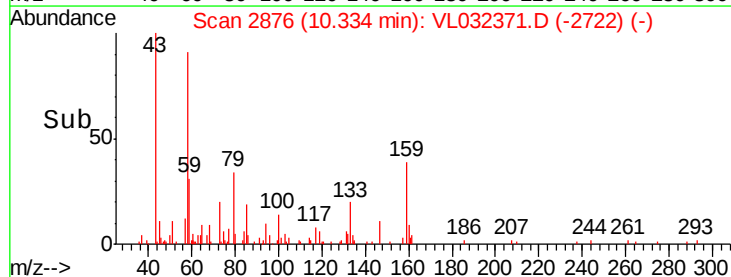
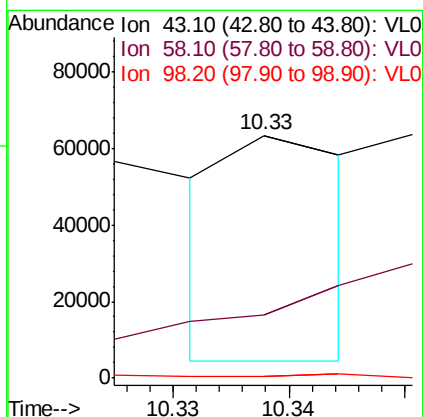
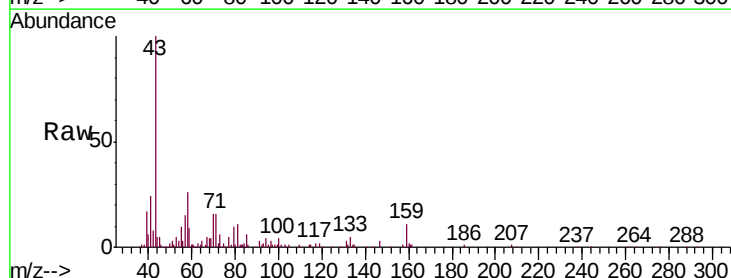
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

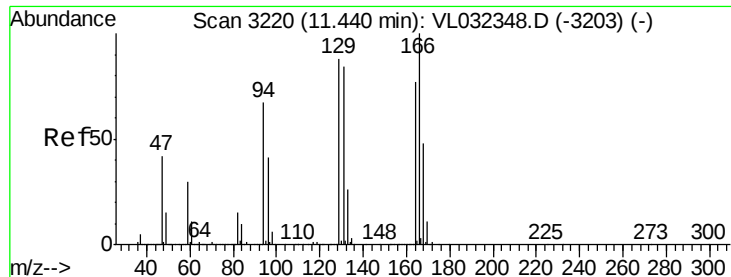
Tgt Ion: 43 Resp: 371885
 Ion Ratio Lower Upper
 43 100
 58 35.3 28.9 43.3



#51
 2-Hexanone
 Concen: 0.092 ppbv
 RT: 10.33 min Scan# 2876
 Delta R.T. -0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion: 43 Resp: 21803
 Ion Ratio Lower Upper
 43 100
 58 0.0 39.5 59.3#
 98 0.0 0.3 0.5#





#52

Tetrachloroethene

Concen: 0.836 ppbv

RT: 11.44 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

Tgt Ion:164 Resp: 71448

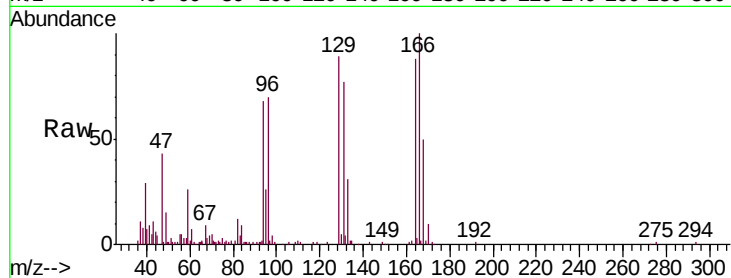
Ion Ratio Lower Upper

164 100

166 115.8 103.5 155.3

129 101.3 90.9 136.3

131 87.8 86.7 130.1

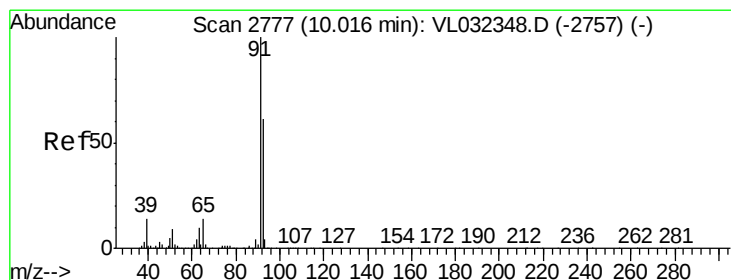
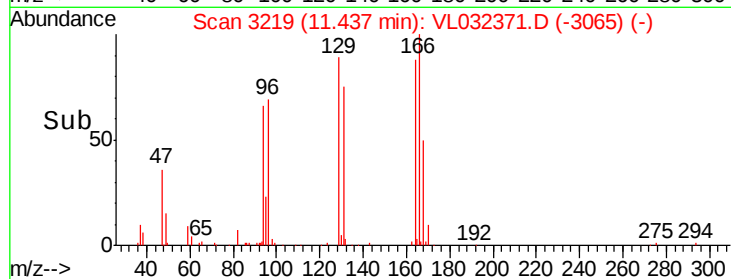
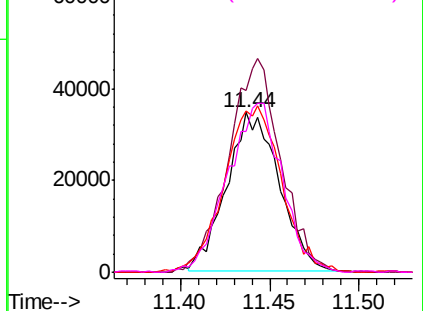


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 13.943 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032371.D

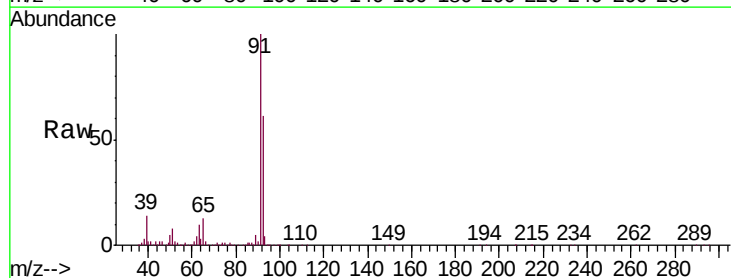
Acq: 16 Aug 2018 4:34

Tgt Ion: 91 Resp: 4431135

Ion Ratio Lower Upper

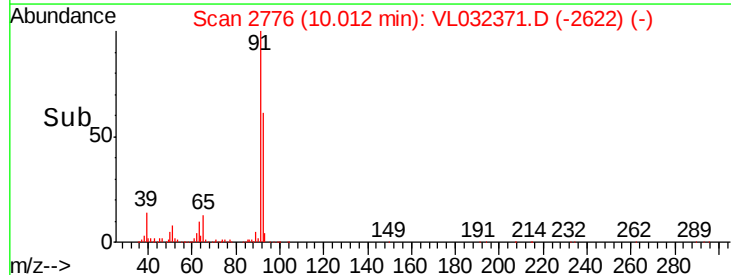
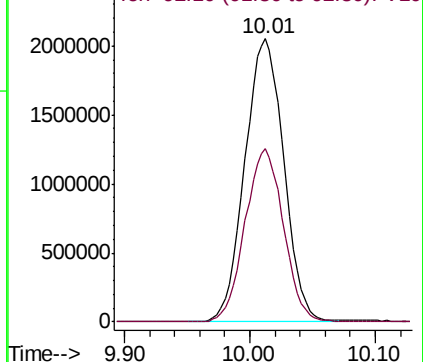
91 100

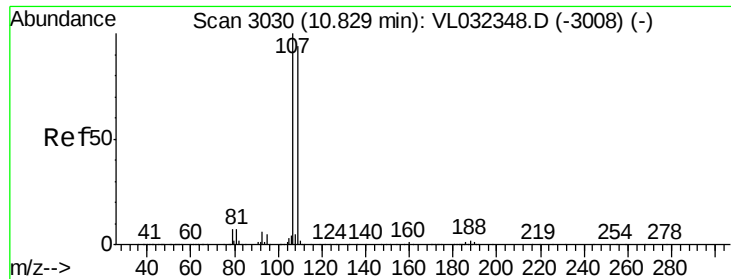
92 60.4 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

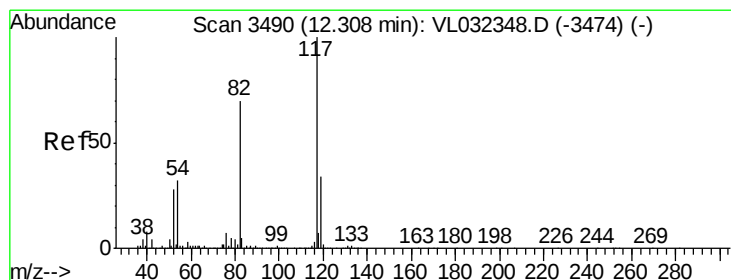
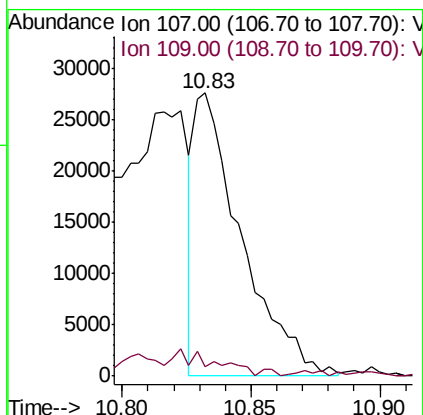
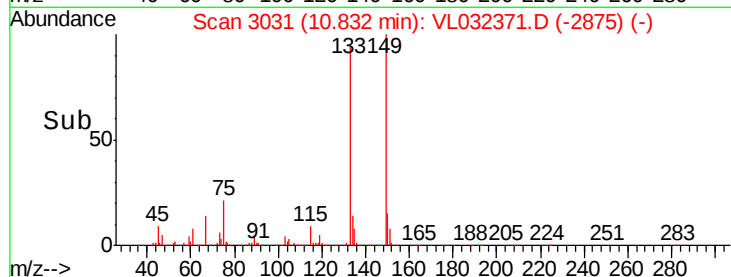
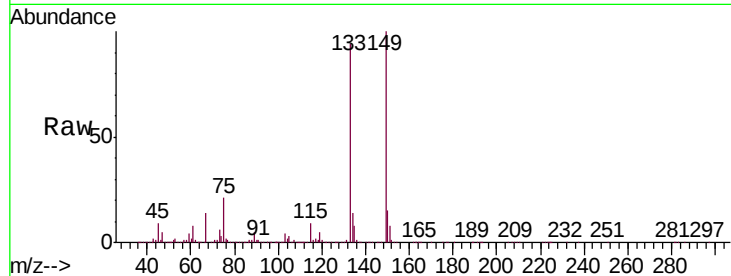




#54
 1,2-Dibromoethane
 Concen: 0.203 ppbv
 RT: 10.83 min Scan# 3031
 Delta R.T. 0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

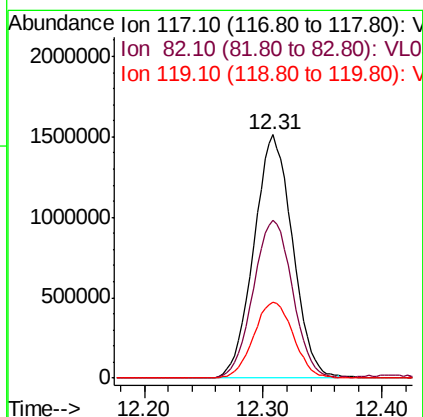
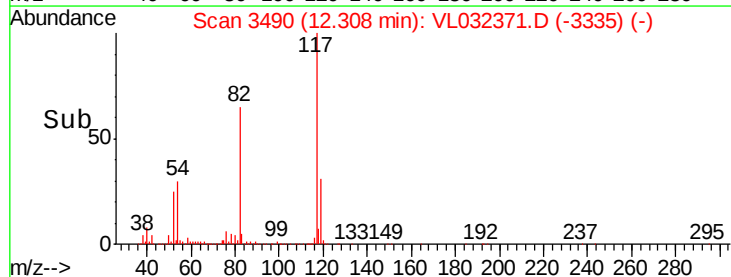
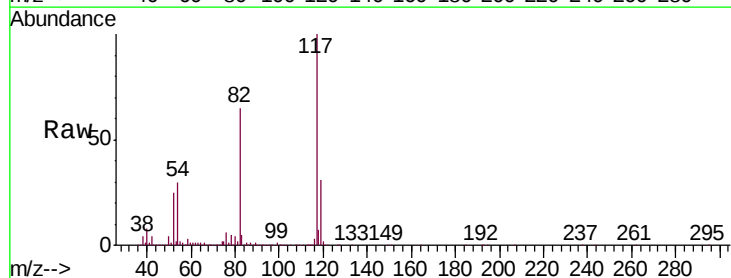
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

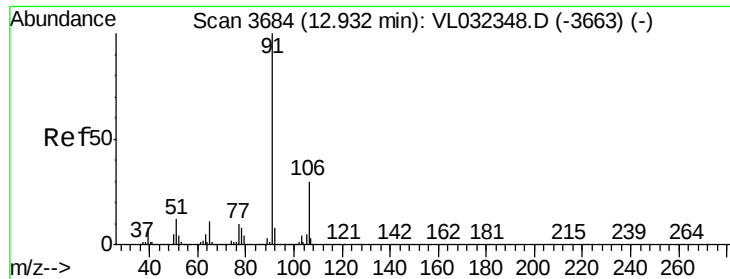
Tgt Ion:107 Resp: 34826
 Ion Ratio Lower Upper
 107 100
 109 1.7 74.9 112.3#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.31 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion:117 Resp: 3396572
 Ion Ratio Lower Upper
 117 100
 82 66.3 55.1 82.7
 119 32.3 46.0 69.0#





#58

Ethyl Benzene

Concen: 2.036 ppbv

RT: 12.93 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

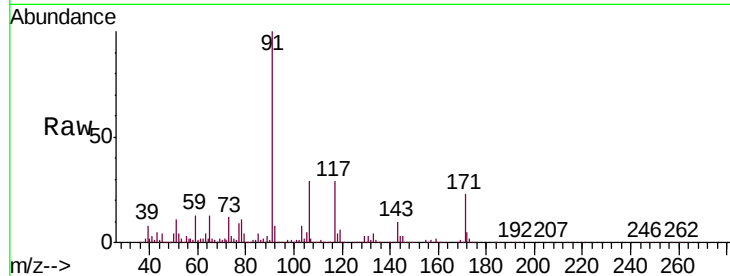
SG07-MIVI

Tgt Ion: 91 Resp: 831841

Ion Ratio Lower Upper

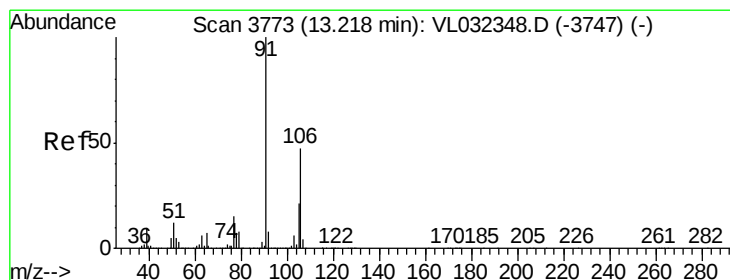
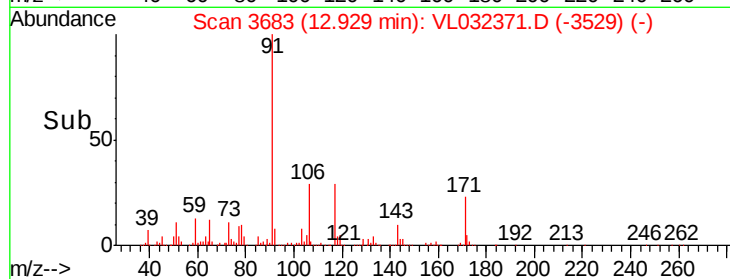
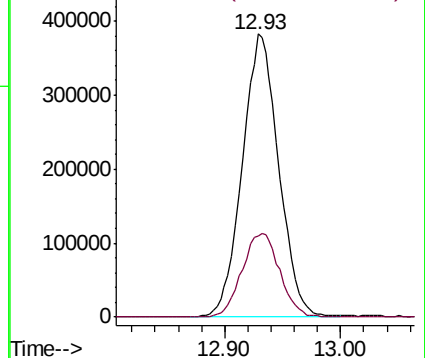
91 100

106 28.5 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 7.488 ppbv

RT: 13.19 min Scan# 3763

Delta R.T. -0.03 min

Lab File: VL032371.D

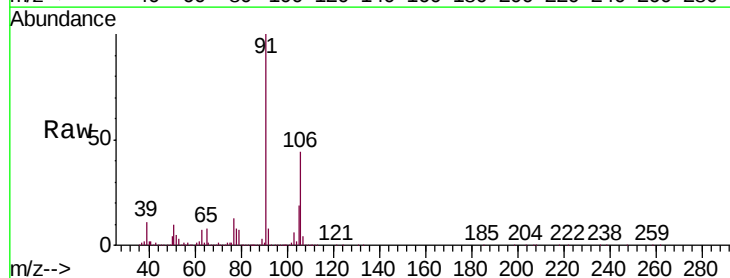
Acq: 16 Aug 2018 4:34

Tgt Ion: 91 Resp: 2599245

Ion Ratio Lower Upper

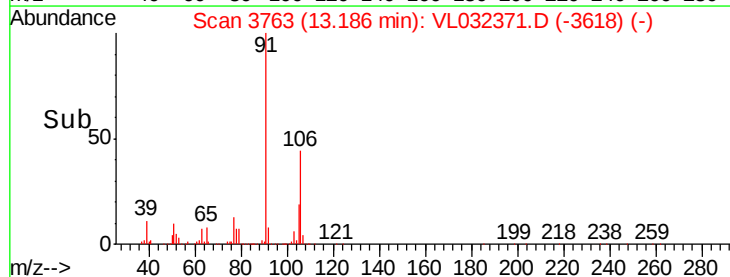
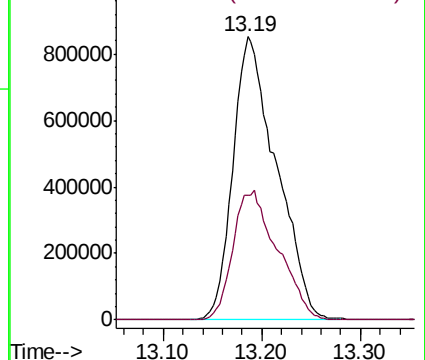
91 100

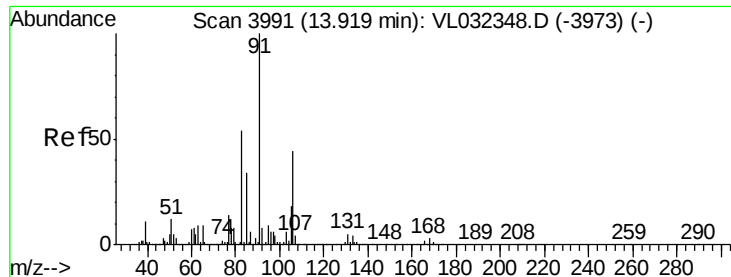
106 47.2 37.0 55.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

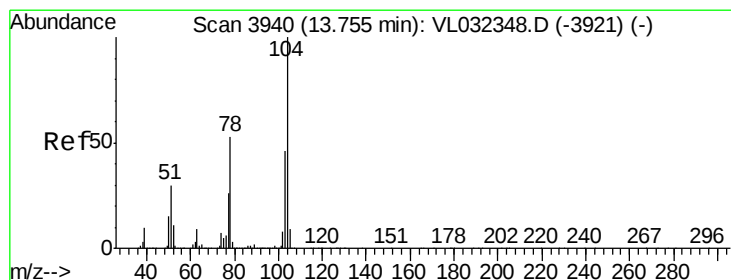
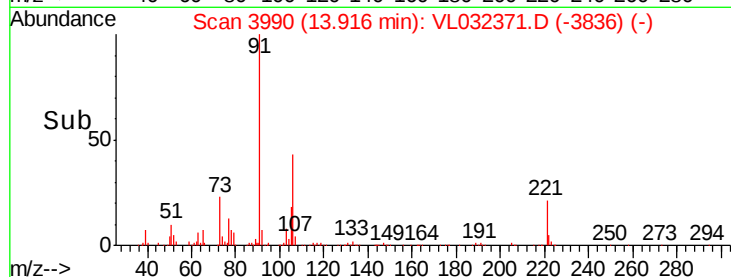
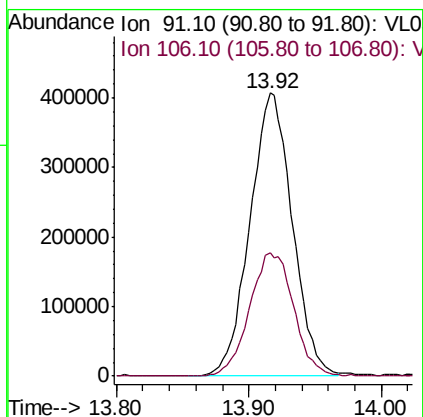
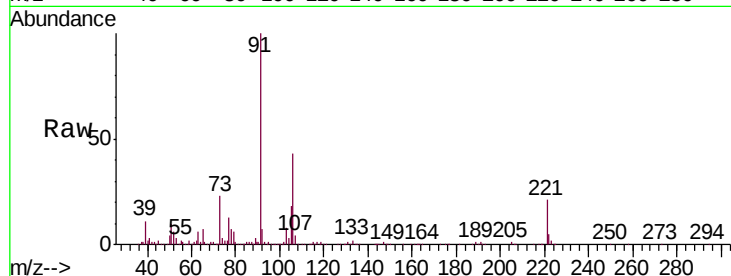




#60
o-Xylene
Concen: 2.633 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. -0.00 min
Lab File: VL032371.D
Acq: 16 Aug 2018 4:34

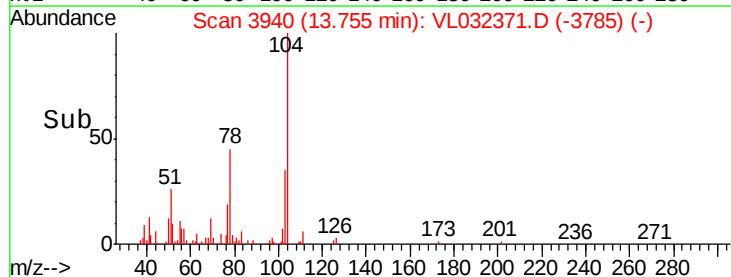
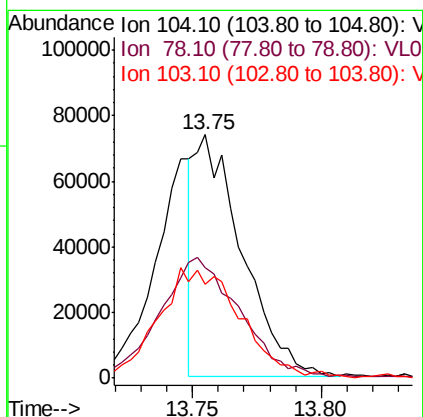
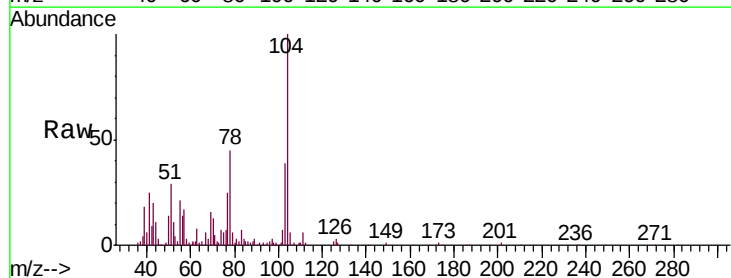
Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

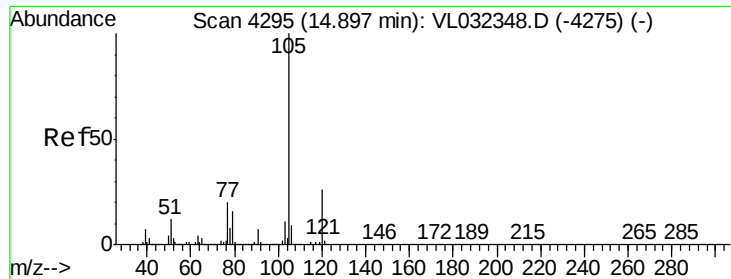
Tgt Ion: 91 Resp: 898284
Ion Ratio Lower Upper
91 100
106 45.6 22.3 66.8



#61
Styrene
Concen: 0.393 ppbv
RT: 13.75 min Scan# 3940
Delta R.T. -0.00 min
Lab File: VL032371.D
Acq: 16 Aug 2018 4:34

Tgt Ion: 104 Resp: 93717
Ion Ratio Lower Upper
104 100
78 85.7 42.6 64.0#
103 79.4 38.0 57.0#





#62

Isopropylbenzene

Concen: 0.080 ppbv

RT: 14.90 min Scan# 4295

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

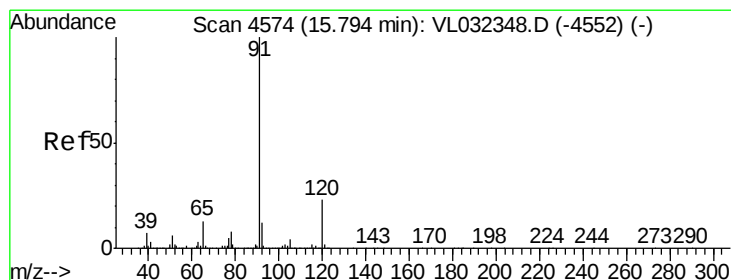
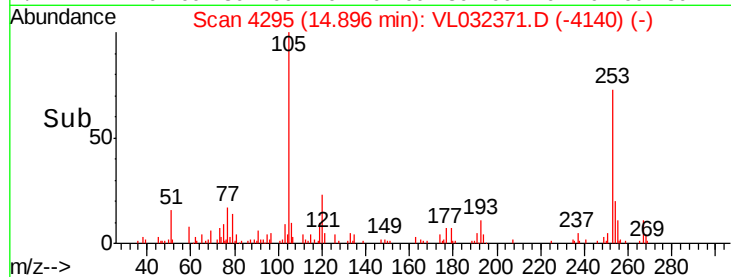
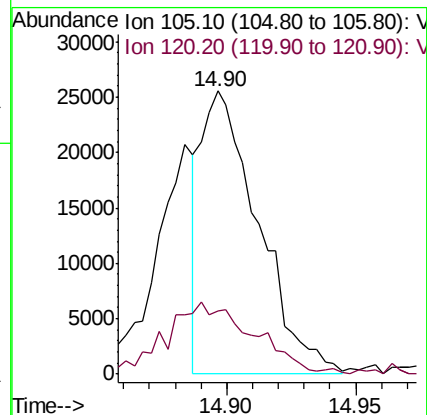
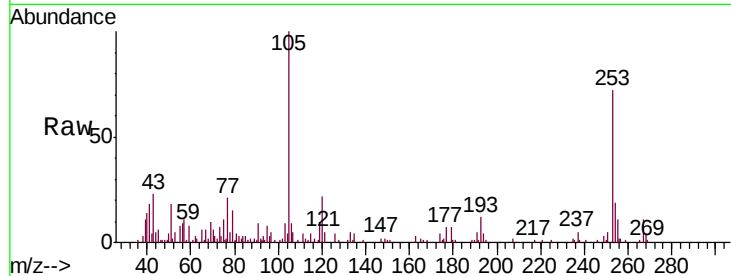
SG07-MIVI

Tgt Ion:105 Resp: 39083

Ion Ratio Lower Upper

105 100

120 39.4 20.6 30.8#



#64

n-propylbenzene

Concen: 0.282 ppbv

RT: 15.79 min Scan# 4574

Delta R.T. -0.00 min

Lab File: VL032371.D

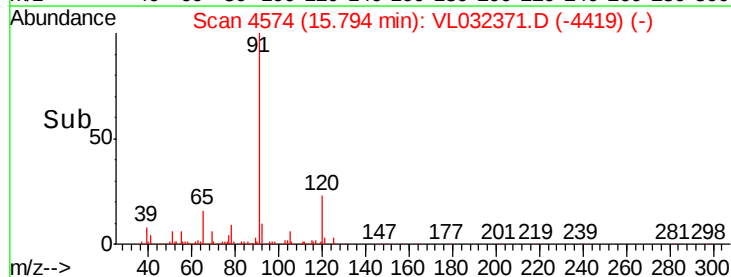
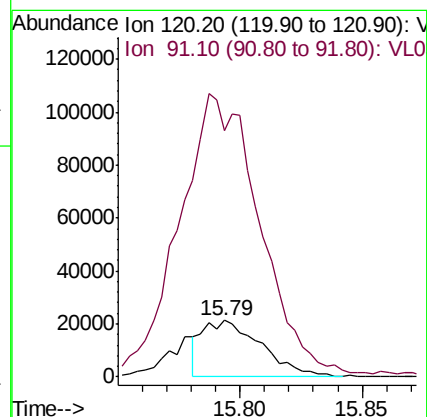
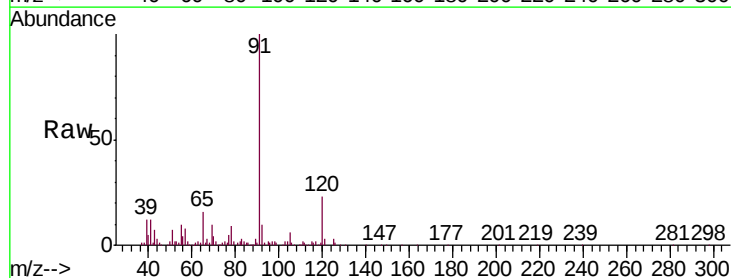
Acq: 16 Aug 2018 4:34

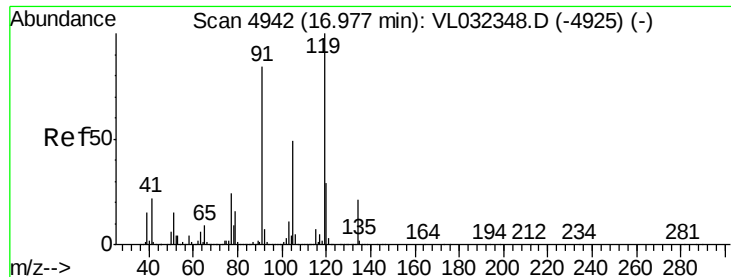
Tgt Ion:120 Resp: 35434

Ion Ratio Lower Upper

120 100

91 684.5 382.2 573.2#

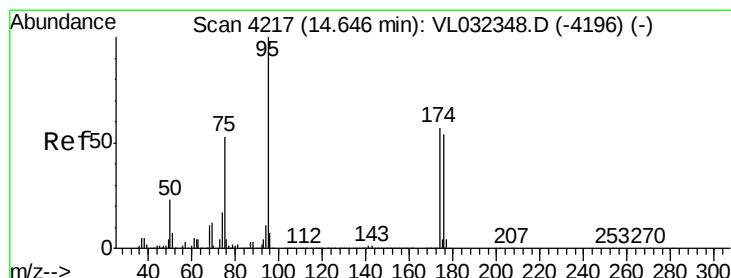
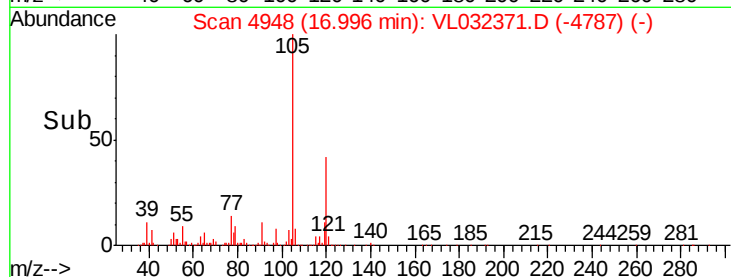
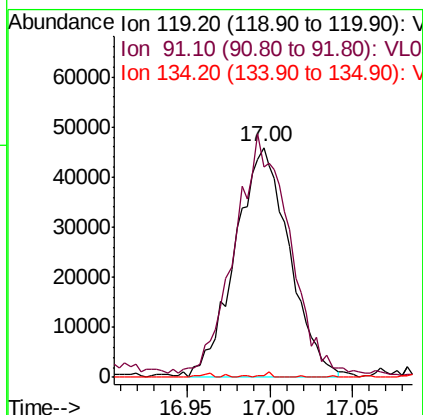
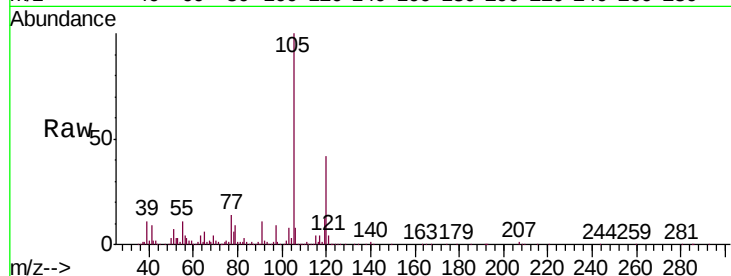




#65
 tert-Butylbenzene
 Concen: 0.252 ppbv
 RT: 17.00 min Scan# 4948
 Delta R.T. 0.02 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

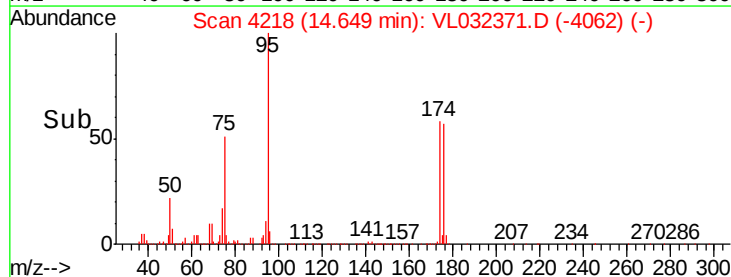
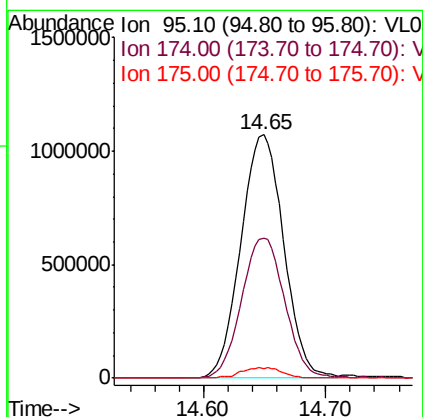
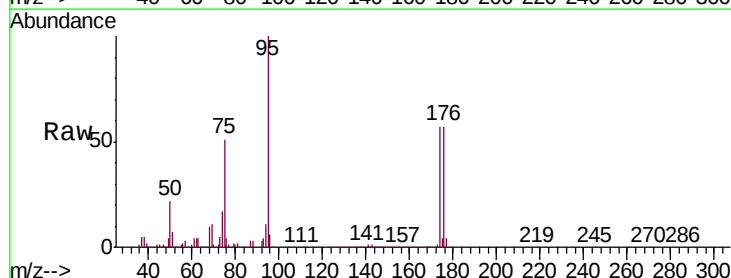
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

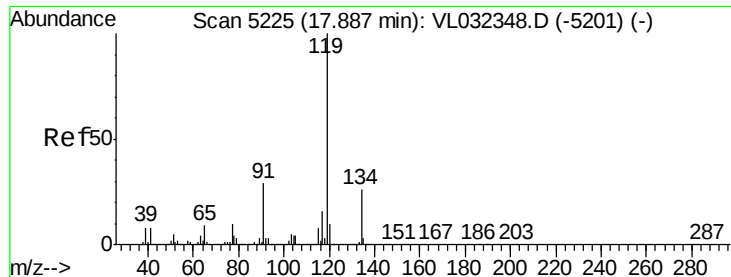
Tgt Ion: 119 Resp: 104425
 Ion Ratio Lower Upper
 119 100
 91 105.8 67.4 101.0#
 134 0.0 15.8 23.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.057 ppbv
 RT: 14.65 min Scan# 4218
 Delta R.T. 0.00 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion: 95 Resp: 2606182
 Ion Ratio Lower Upper
 95 100
 174 58.0 46.2 69.4
 175 4.4 3.4 5.0





#69

p-Isopropyltoluene

Concen: 0.049 ppbv

RT: 17.89 min Scan# 5225

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

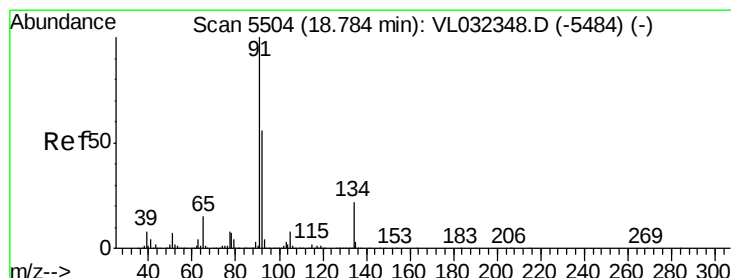
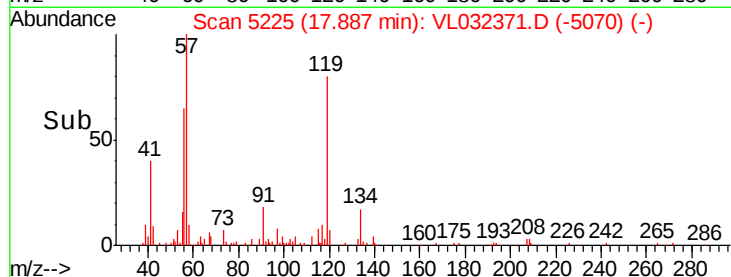
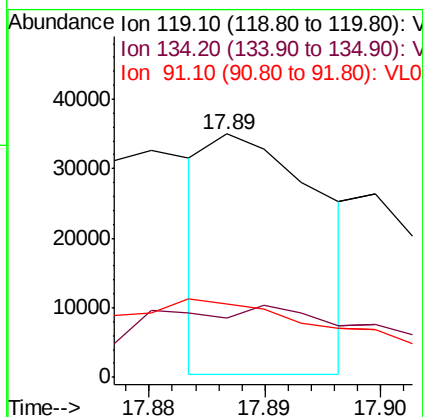
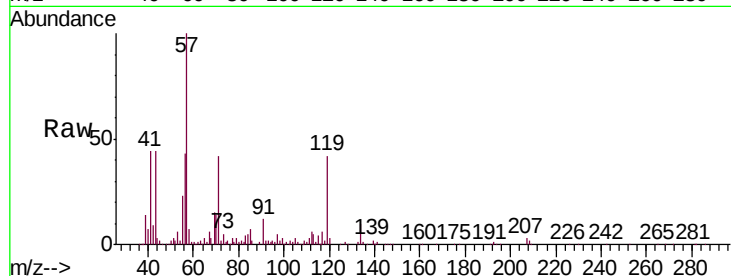
Tgt Ion: 119 Resp: 23101

Ion Ratio Lower Upper

119 100

134 95.1 20.4 30.6#

91 0.0 23.6 35.4#



#70

n-Butylbenzene

Concen: 0.107 ppbv

RT: 18.79 min Scan# 5507

Delta R.T. 0.01 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

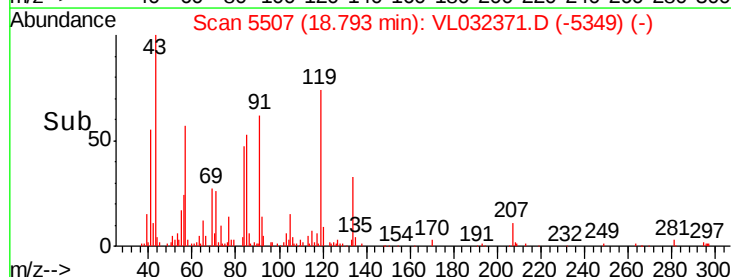
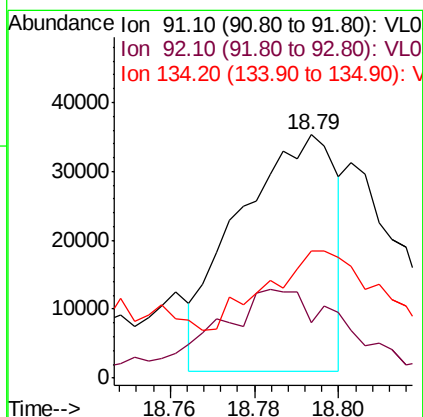
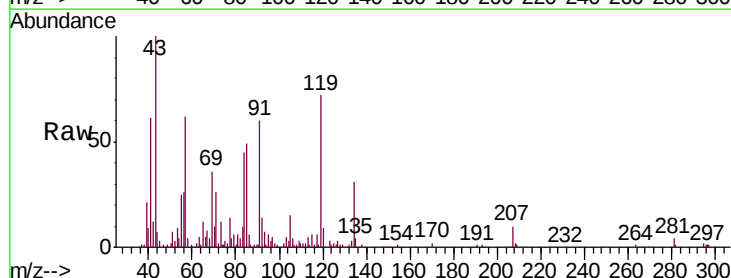
Tgt Ion: 91 Resp: 55464

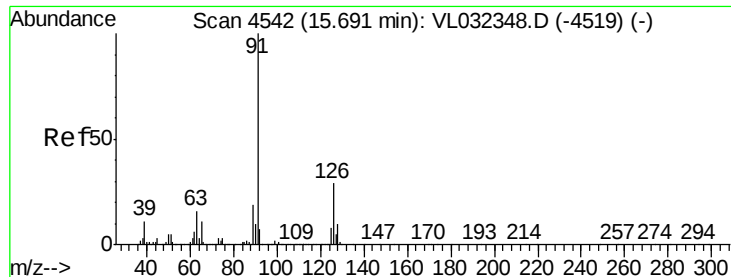
Ion Ratio Lower Upper

91 100

92 61.8 43.9 65.9

134 117.3 17.3 25.9#





#71

2-Chlorotoluene

Concen: 0.368 ppbv

RT: 15.79 min Scan# 4572

Delta R.T. 0.10 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

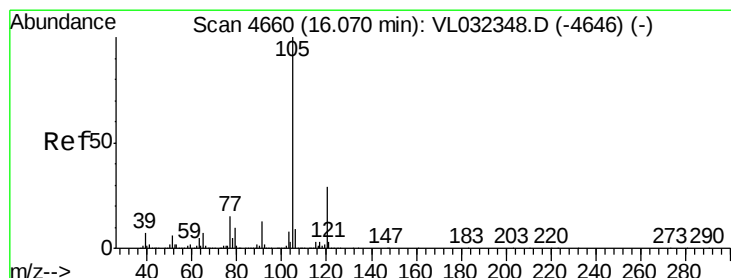
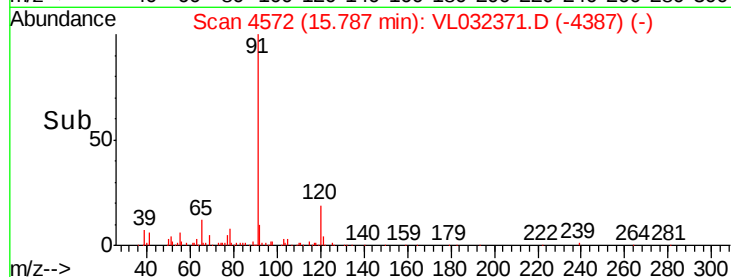
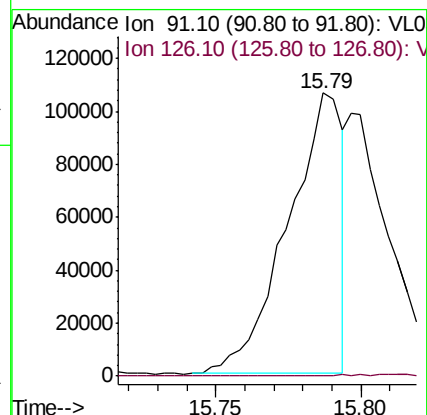
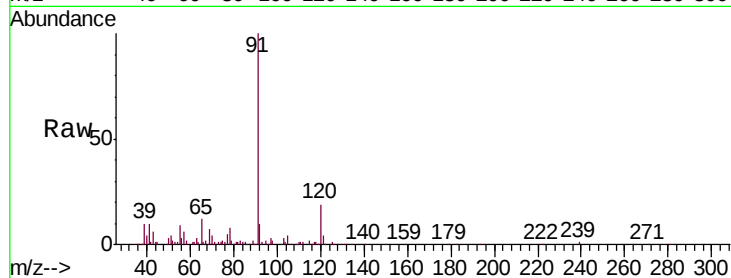
SG07-MIVI

Tgt Ion: 91 Resp: 138263

Ion Ratio Lower Upper

91 100

126 0.0 11.8 47.2#



#72

4-Ethyltoluene

Concen: 0.744 ppbv

RT: 16.07 min Scan# 4659

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Tgt Ion: 105 Resp: 283004

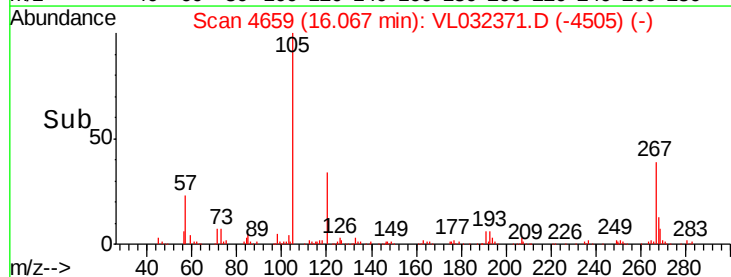
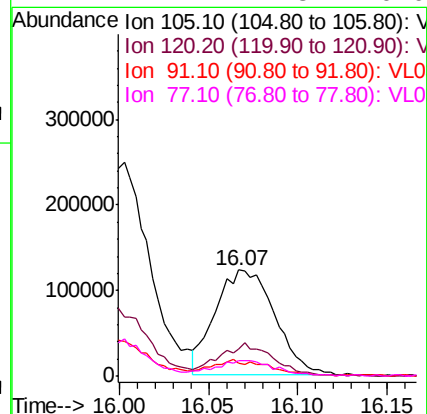
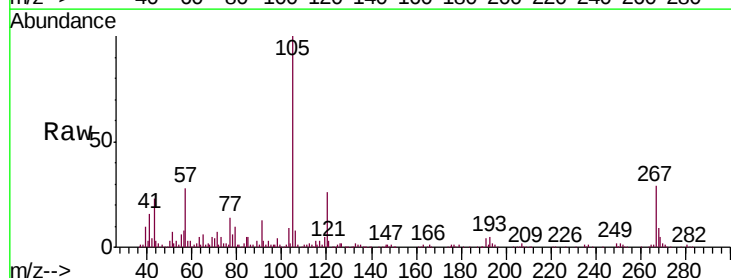
Ion Ratio Lower Upper

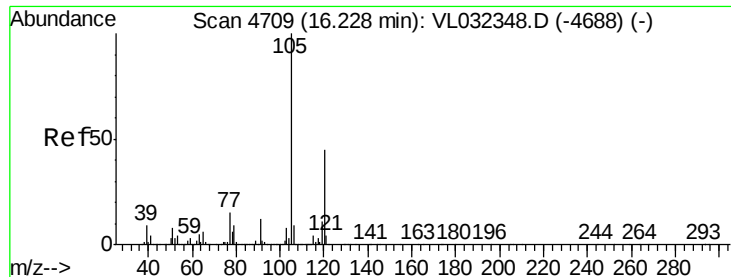
105 100

120 28.5 23.4 35.0

91 13.8 10.0 15.0

77 14.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 0.644 ppbv

RT: 16.23 min Scan# 4710

Delta R.T. 0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

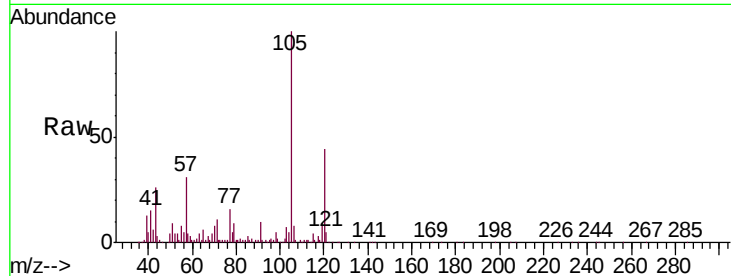
SG07-MIVI

Tgt Ion:105 Resp: 235589

Ion Ratio Lower Upper

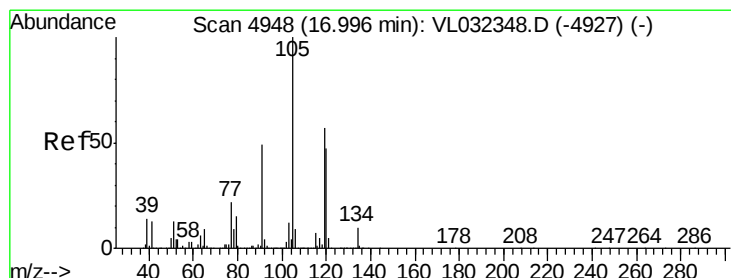
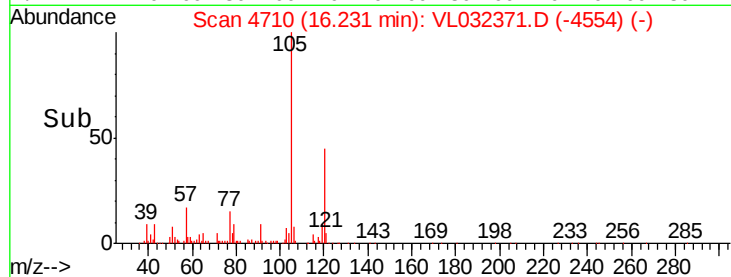
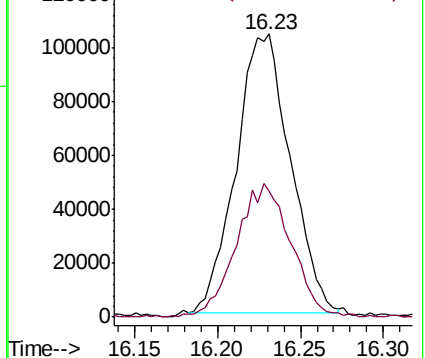
105 100

120 43.6 36.3 54.5



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: 2.389 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Tgt Ion:105 Resp: 930630

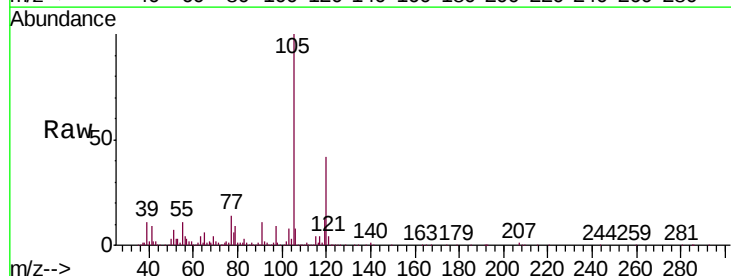
Ion Ratio Lower Upper

105 100

120 42.4 37.6 56.4

91 10.6 39.9 59.9#

77 13.9 17.8 26.8#

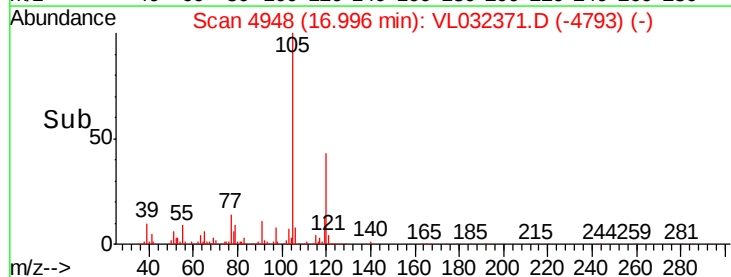
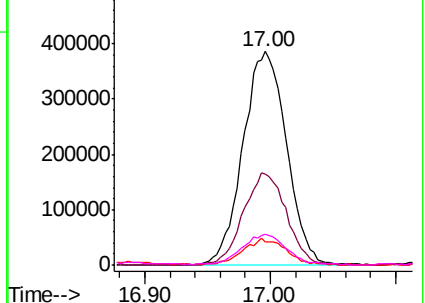


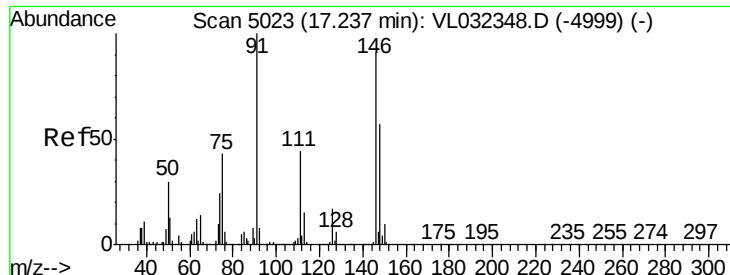
Abundance Ion 105.10 (104.80 to 105.80): V

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

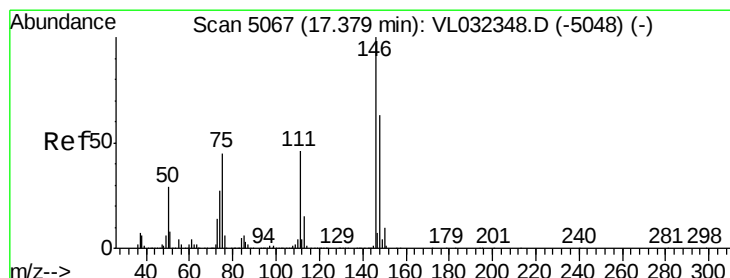
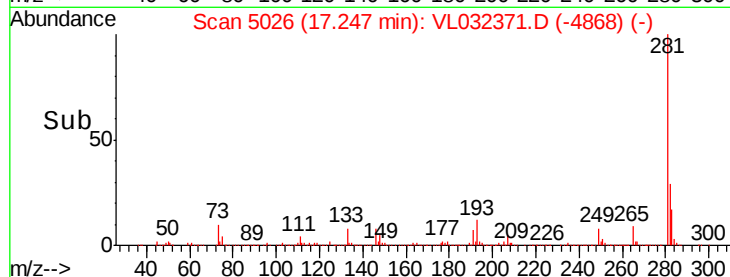
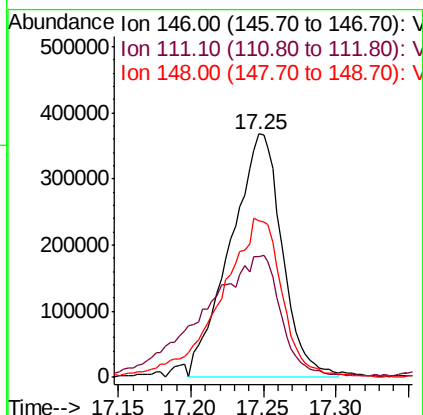
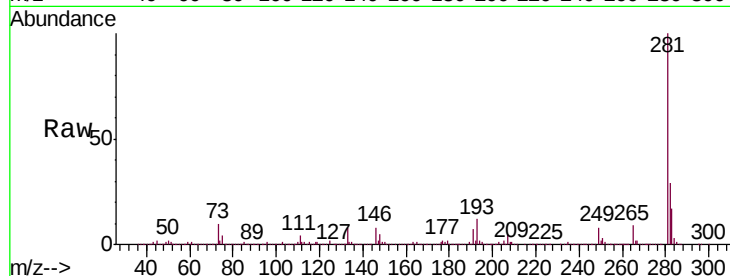




#75
 1,3-Dichlorobenzene
 Concen: 3.912 ppbv
 RT: 17.25 min Scan# 5026
 Delta R.T. 0.01 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

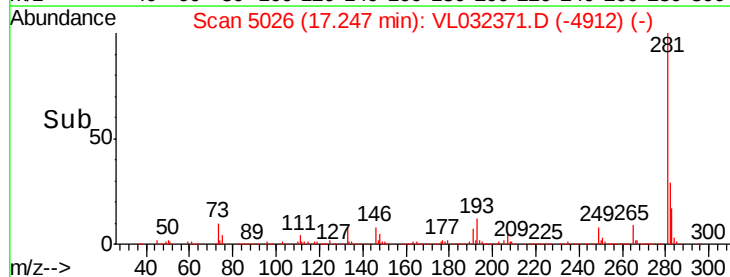
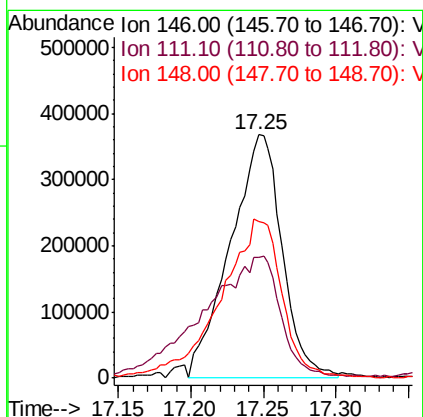
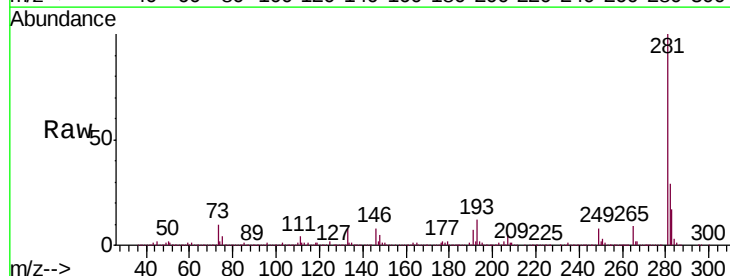
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

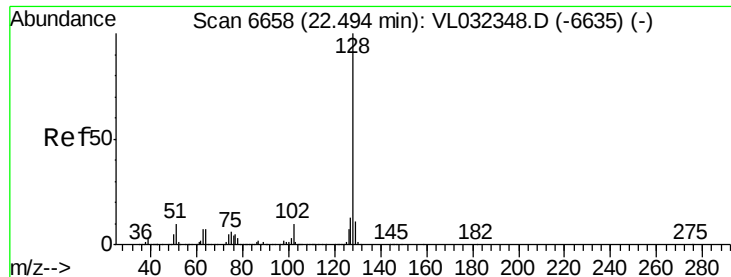
Tgt Ion	Ratio	Lower	Upper
146	100		
111	74.8	24.6	73.8#
148	78.2	32.0	96.0



#76
 1,4-Dichlorobenzene
 Concen: 4.130 ppbv
 RT: 17.25 min Scan# 5026
 Delta R.T. -0.13 min
 Lab File: VL032371.D
 Acq: 16 Aug 2018 4:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	74.7	23.8	71.4#
148	78.1	32.2	96.6





#79

Naphthalene

Concen: 0.972 ppbv

RT: 22.49 min Scan# 6657

Delta R.T. -0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVI

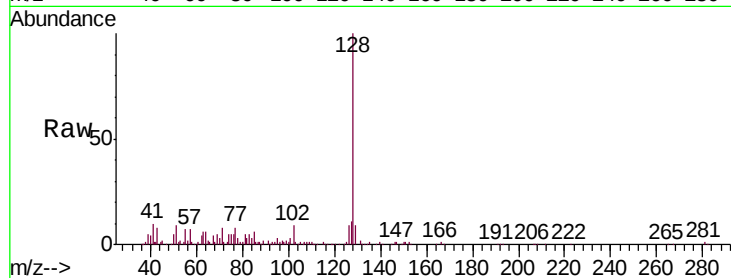
Tgt Ion:128 Resp: 242830

Ion Ratio Lower Upper

128 100

127 11.1 10.3 15.5

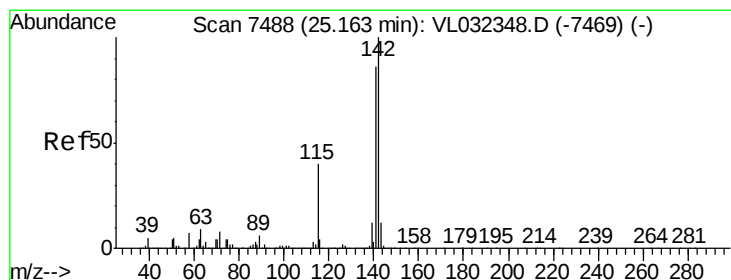
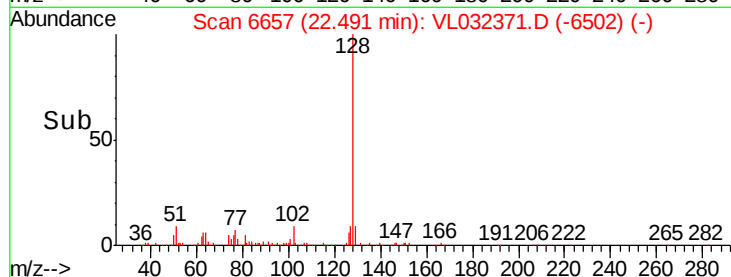
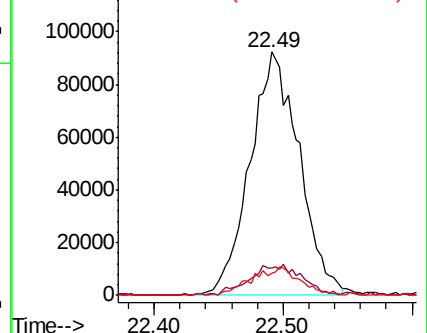
129 9.3 8.6 13.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.209 ppbv

RT: 25.17 min Scan# 7489

Delta R.T. 0.00 min

Lab File: VL032371.D

Acq: 16 Aug 2018 4:34

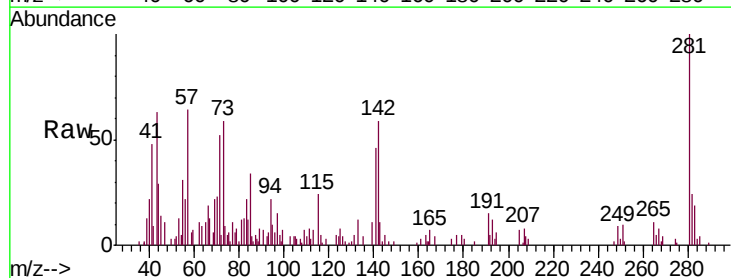
Tgt Ion:142 Resp: 16214

Ion Ratio Lower Upper

142 100

141 96.2 66.7 100.1

115 65.9 31.0 46.6#



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

