

Data File : VL032385.D
Acq On : 16 Aug 2018 20:22
Operator : SY/AP
Sample : J4457-03DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL

Quant Time: Aug 17 03:19:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1801574	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3643257	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3497573	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.64 95 2732628 10.24 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.40%

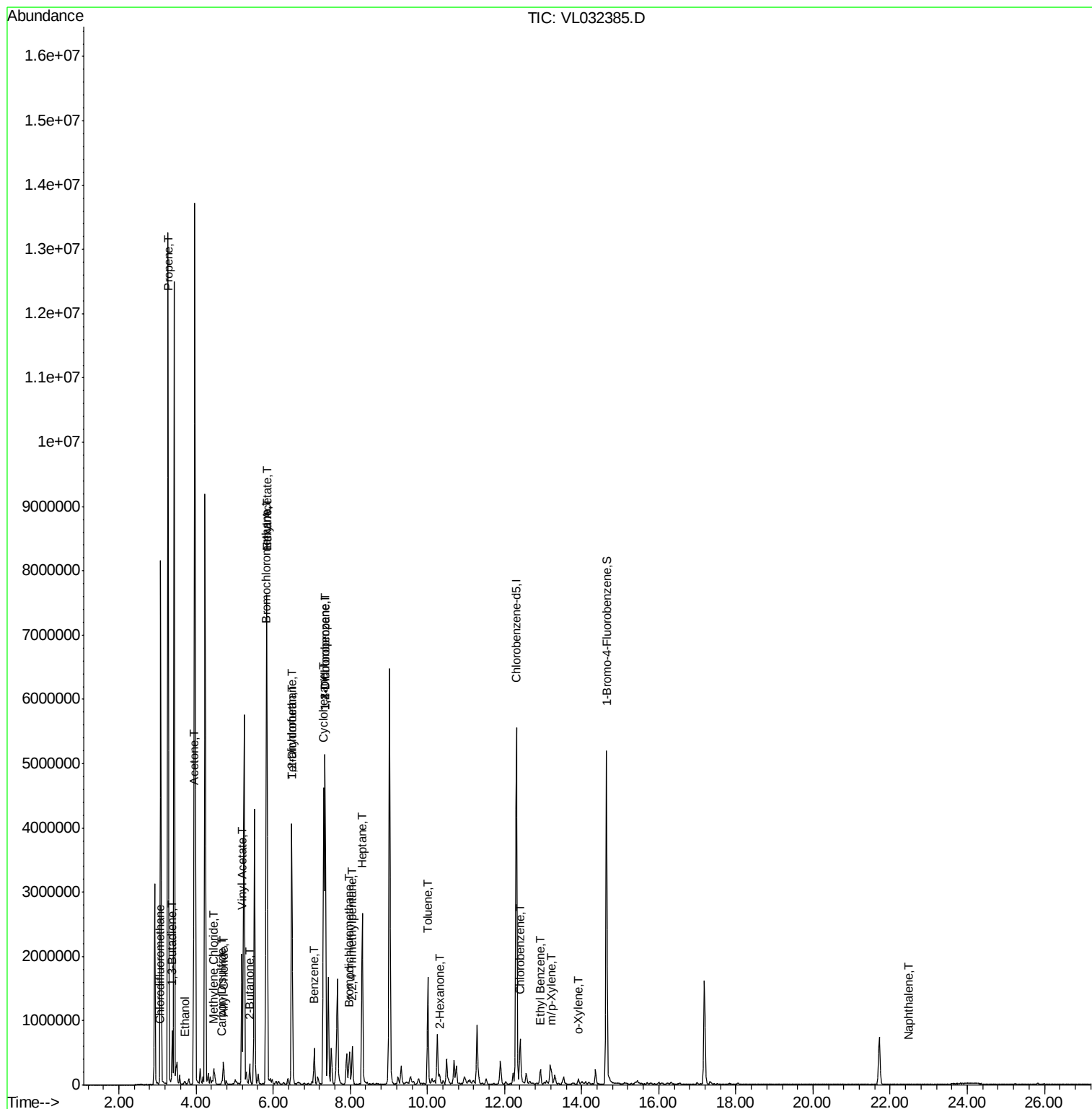
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.12	85	3835	Below Cal	#	87
3) Chlorodifluoromethane	3.05	51	5396	0.032	ppbv	100
9) Propene	3.28	41	4358278	61.019	ppbv	97
10) Heptane	8.31	43	1180750	5.489	ppbv	99
13) Ethanol	3.70	45	49636	2.706	ppbv	98
15) Acetone	3.94	43	2022513	11.816	ppbv	# 75
16) 1,3-Butadiene	3.38	39	215013	3.043	ppbv	# 10
20) Methylene Chloride	4.46	84	69371	1.073	ppbv	95
21) Allyl Chloride	4.72	41	92567	0.857	ppbv	# 69
23) Vinyl Acetate	5.19	43	580532	1.964	ppbv	# 1
25) Ethyl Acetate	5.84	43	2018400	5.502	ppbv	# 77
26) Hexane	5.84	57	2875939	17.587	ppbv	# 43
27) Carbon Disulfide	4.67	76	46936	0.308	ppbv	# 81
30) Cyclohexane	7.31	84	1583178	12.709	ppbv	98
34) 2-Butanone	5.39	43	347830	1.403	ppbv	99
36) Benzene	7.06	78	458034	1.483	ppbv	95
37) 1,2-Dichloroethane	6.48	62	5968	0.032	ppbv	# 24
39) 1,2-Dichloropropane	7.35	63	1011457	7.839	ppbv	# 26
41) Tetrahydrofuran	6.49	42	545666	4.099	ppbv	# 39
42) Bromodichloromethane	7.98	83	29490	0.120	ppbv	# 28
44) 2,2,4-Trimethylpentane	8.06	57	23911	0.043	ppbv	# 1
51) 2-Hexanone	10.31	43	33984	0.135	ppbv	# 28
53) Toluene	10.01	91	1263532	3.732	ppbv	99
57) Chlorobenzene	12.41	112	57112	0.217	ppbv	# 35
58) Ethyl Benzene	12.93	91	96766	0.230	ppbv	99
59) m/p-Xylene	13.22	91	69205	0.194	ppbv	# 30
60) o-Xylene	13.92	91	52769	0.150	ppbv	92
79) Naphthalene	22.48	128	350	0.328	ppbv	# 69

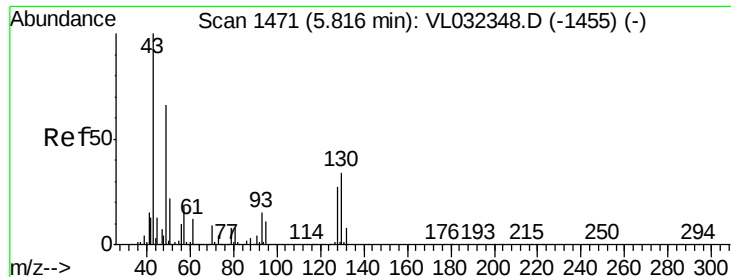
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 15 14:58:02 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

Instrument :

MSVOA_L

ClientSampleId :

SG06-MIVIDL

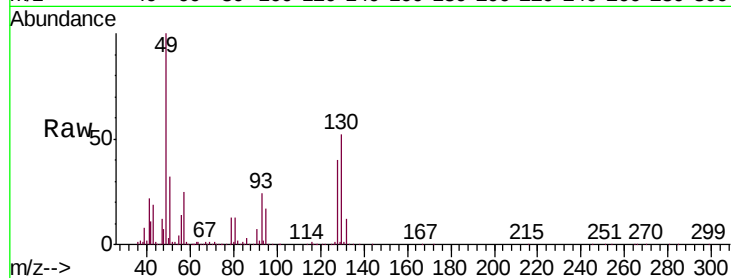
Tgt Ion: 49 Resp: 1801574

Ion Ratio Lower Upper

49 100

128 40.2 20.5 61.6

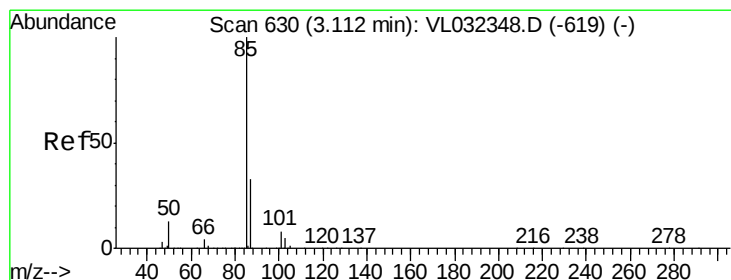
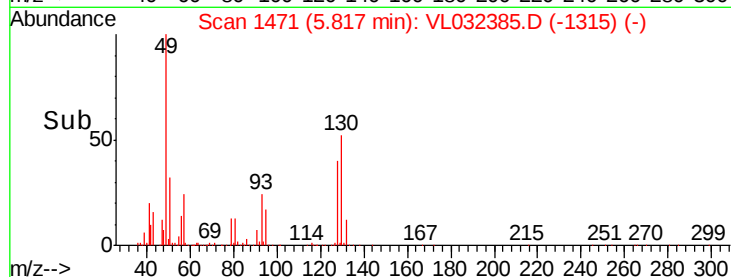
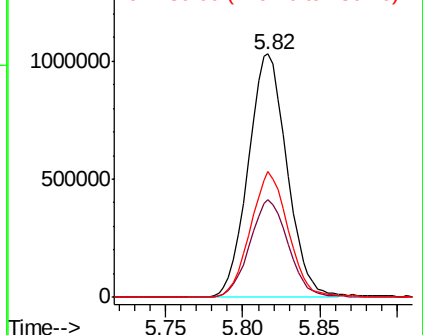
130 50.9 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL032385.D

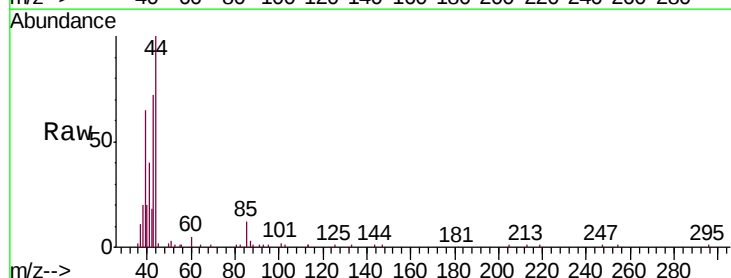
Acq: 16 Aug 2018 20:22

Tgt Ion: 85 Resp: 3835

Ion Ratio Lower Upper

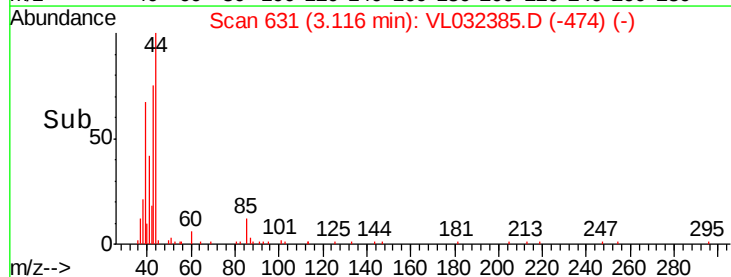
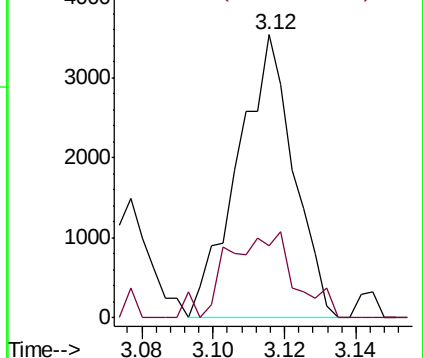
85 100

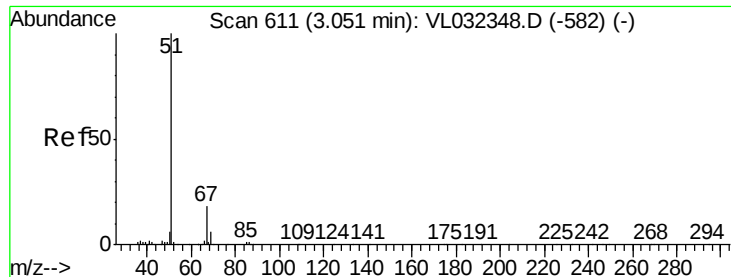
87 25.6 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

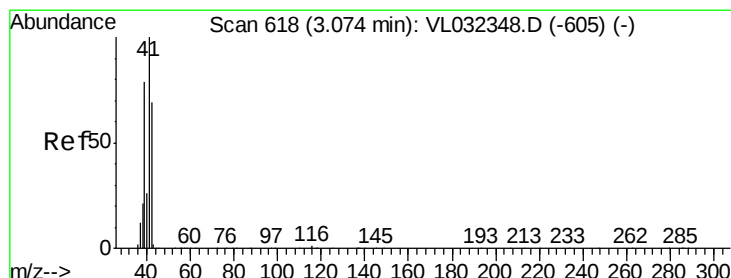
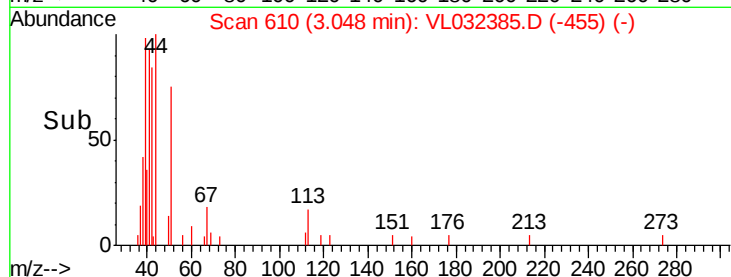
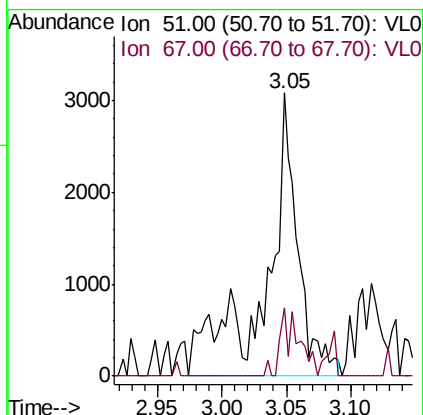
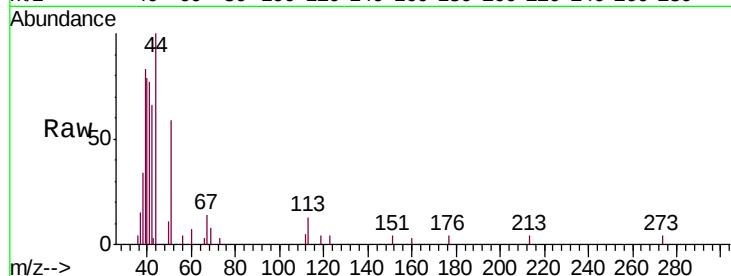




#3
Chlorodifluoromethane
Concen: 0.032 ppbv
RT: 3.05 min Scan# 610
Delta R.T. -0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

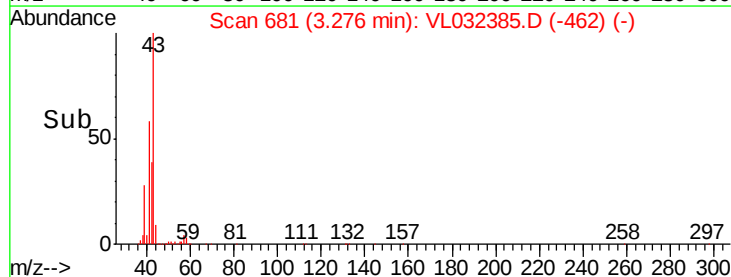
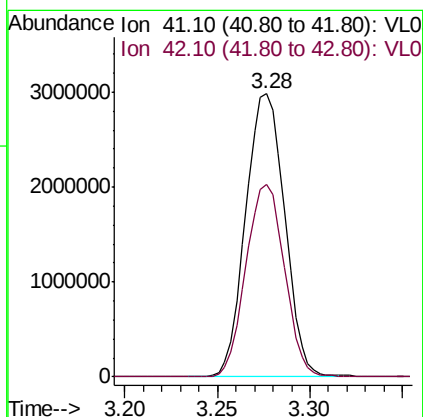
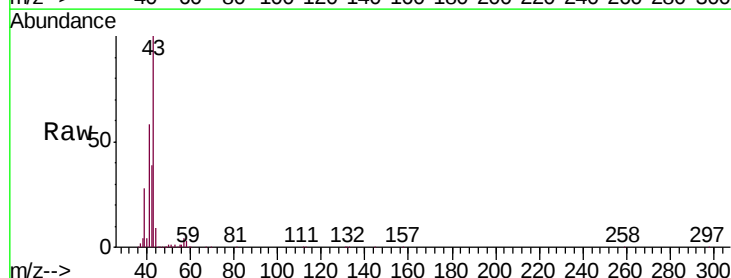
Instrument :
MSVOA_L
ClientSampleId :
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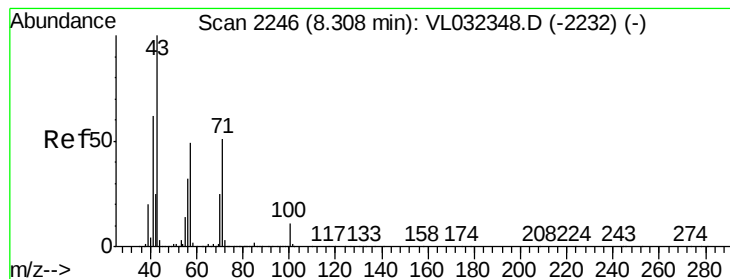
Tgt Ion: 51 Resp: 5396
Ion Ratio Lower Upper
51 100
67 17.2 13.7 20.5



#9
Propene
Concen: 61.019 ppbv
RT: 3.28 min Scan# 681
Delta R.T. 0.20 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion: 41 Resp: 4358278
Ion Ratio Lower Upper
41 100
42 67.5 55.9 83.9

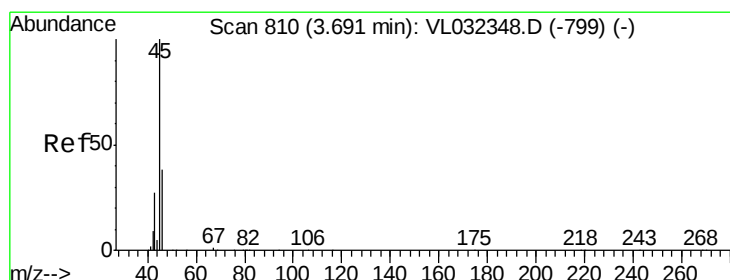
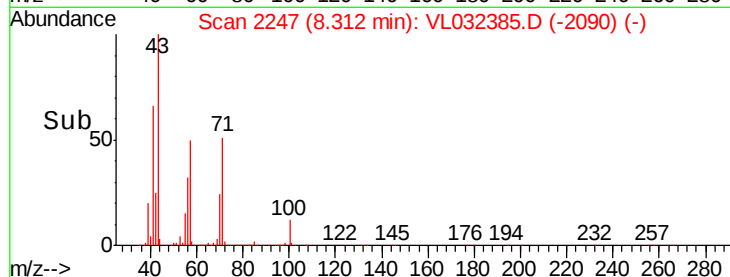
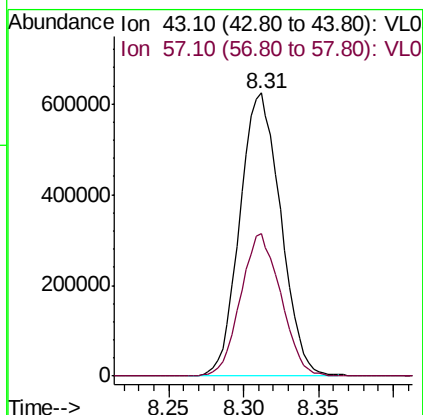
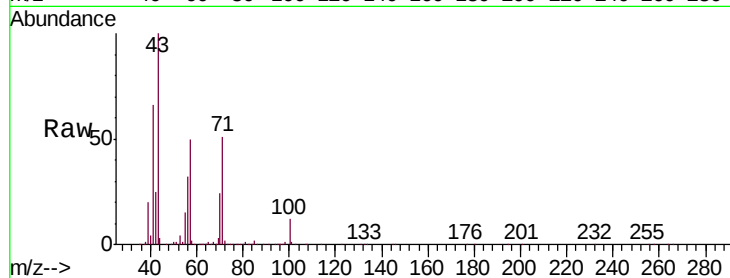




#10
Heptane
Concen: 5.489 ppbv
RT: 8.31 min Scan# 2247
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

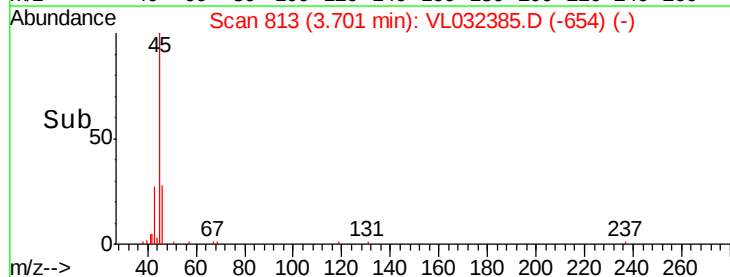
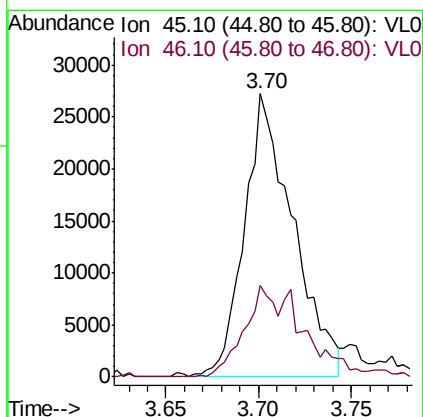
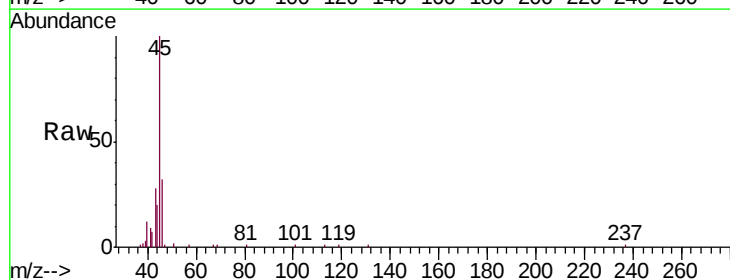
Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL

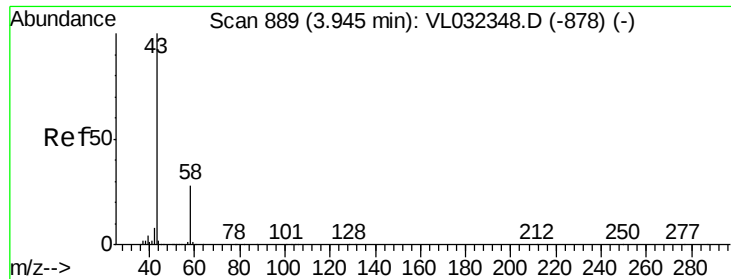
Tgt Ion: 43 Resp: 1180750
Ion Ratio Lower Upper
43 100
57 50.0 39.5 59.3



#13
Ethanol
Concen: 2.706 ppbv
RT: 3.70 min Scan# 813
Delta R.T. 0.01 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion: 45 Resp: 49636
Ion Ratio Lower Upper
45 100
46 40.4 15.6 62.4





#15

Acetone

Concen: 11.816 ppbv

RT: 3.94 min Scan# 888

Delta R.T. -0.00 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

Instrument :

MSVOA_L

ClientSampleId :

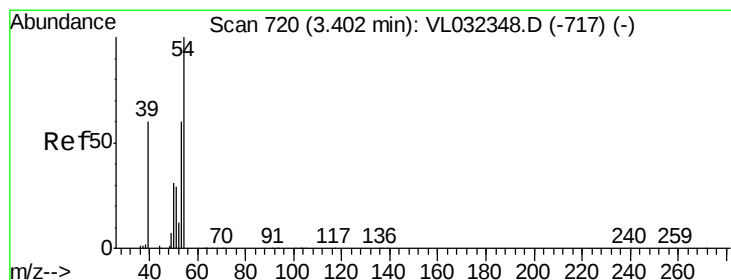
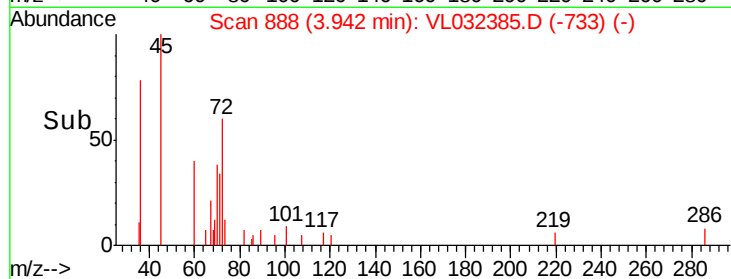
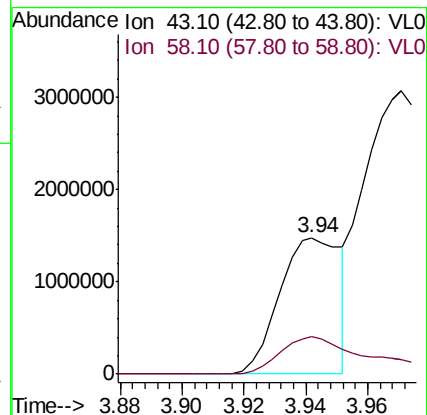
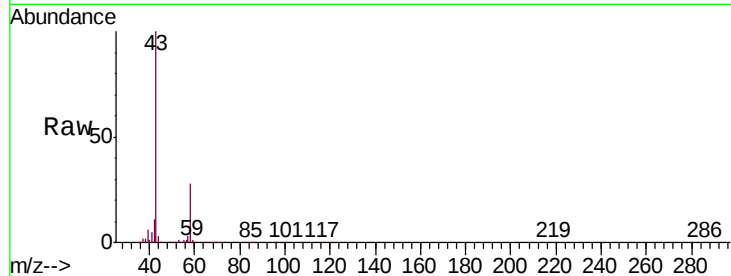
SG06-MIVIDL

Tgt Ion: 43 Resp: 2022513

Ion Ratio Lower Upper

43 100

58 41.2 22.4 33.6#



#16

1,3-Butadiene

Concen: 3.043 ppbv

RT: 3.38 min Scan# 714

Delta R.T. -0.02 min

Lab File: VL032385.D

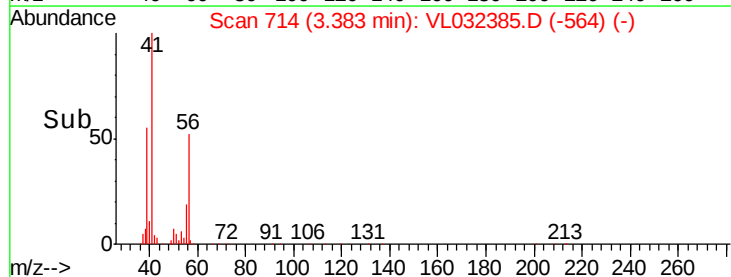
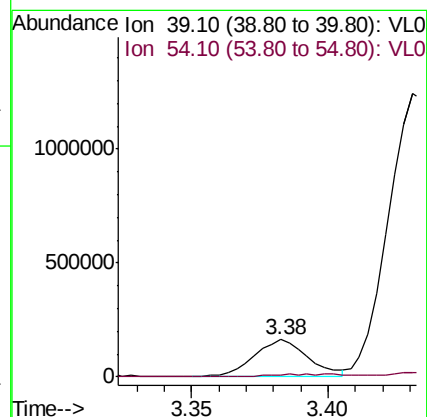
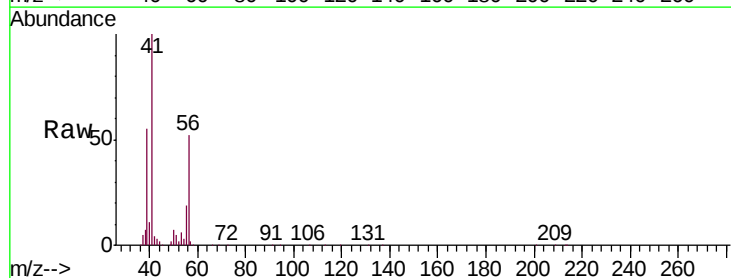
Acq: 16 Aug 2018 20:22

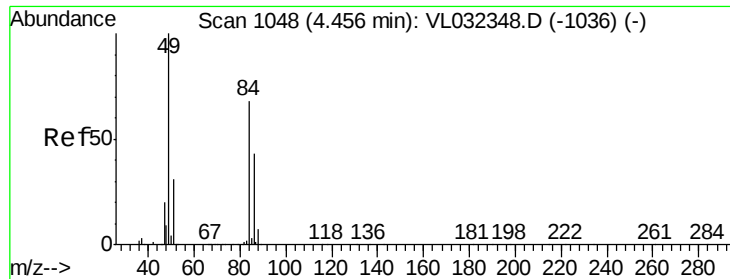
Tgt Ion: 39 Resp: 215013

Ion Ratio Lower Upper

39 100

54 13.6 85.5 128.3#

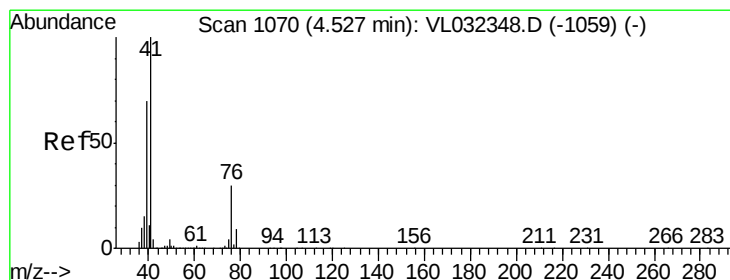
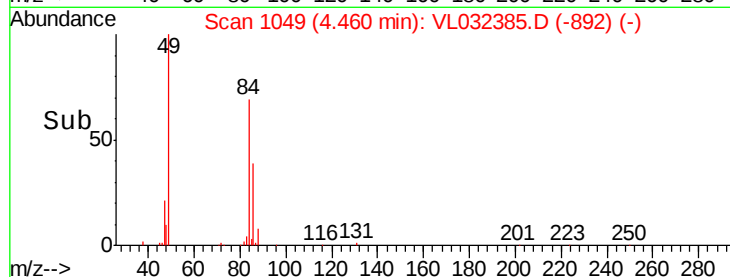
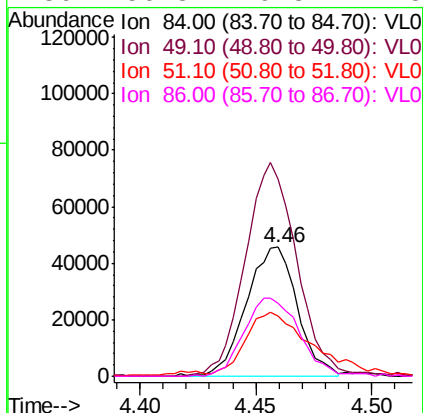
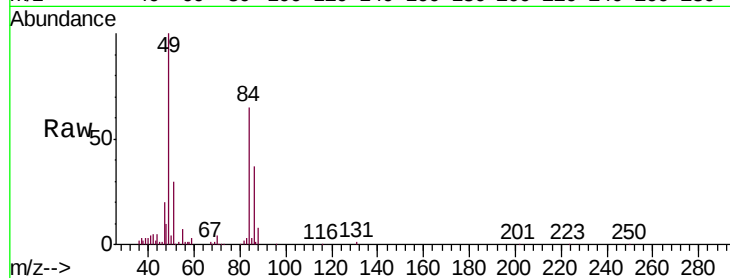




#20
Methylene Chloride
Concen: 1.073 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

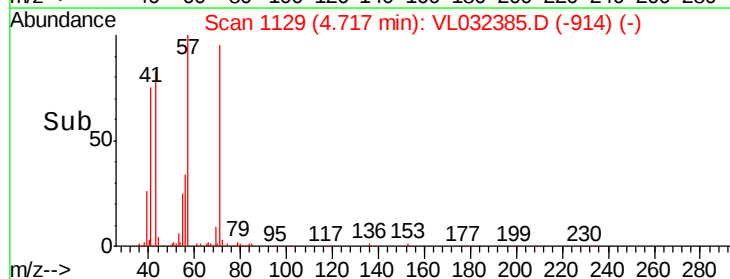
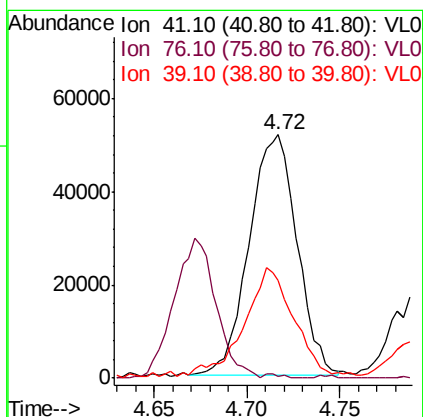
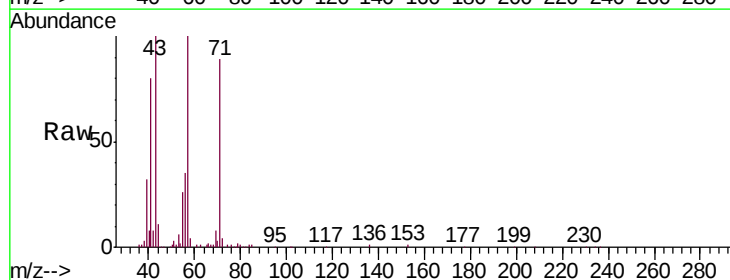
Instrument :
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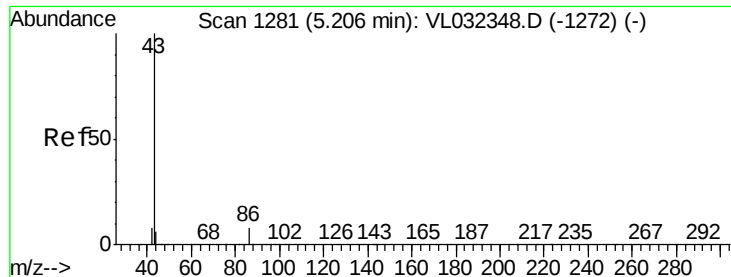
Tgt Ion:	84	Resp:	69371
Ion	Ratio	Lower	Upper
84	100		
49	152.4	117.3	175.9
51	43.5	36.6	55.0
86	56.8	49.8	74.8



#21
Allyl Chloride
Concen: 0.857 ppbv
RT: 4.72 min Scan# 1129
Delta R.T. 0.19 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion:	41	Resp:	92567
Ion	Ratio	Lower	Upper
41	100		
76	52.1	22.9	34.3#
39	50.2	57.6	86.4#





#23

Vinyl Acetate

Concen: 1.964 ppbv

RT: 5.19 min Scan# 1276

Delta R.T. -0.02 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

Instrument :

MSVOA_L

ClientSampleId :

SG06-MIVIDL

Tgt Ion: 43 Resp: 580532

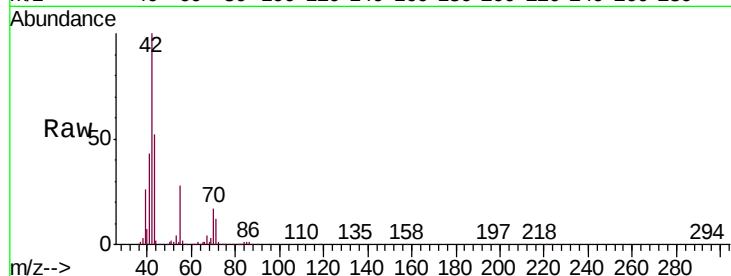
Ion Ratio Lower Upper

43 100

86 2.8 5.5 8.3#

42 191.5 7.0 10.6#

44 2.4 4.6 6.8#

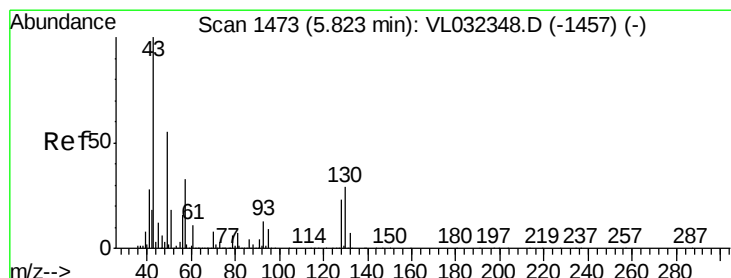
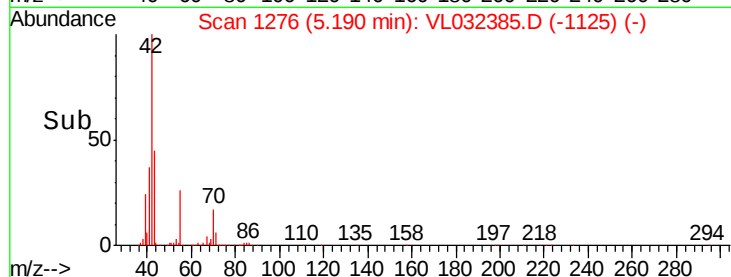
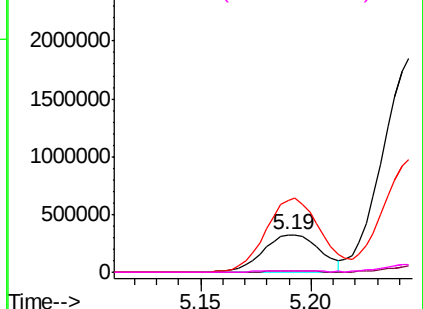


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 5.502 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. 0.02 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

Tgt Ion: 43 Resp: 2018400

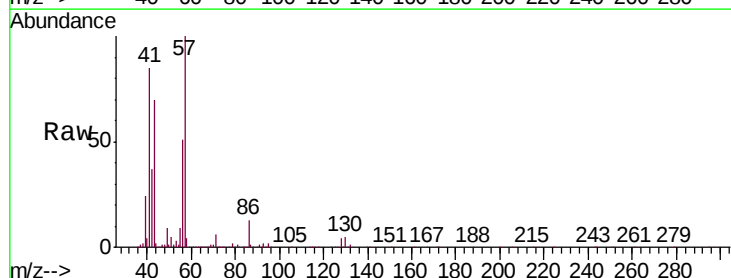
Ion Ratio Lower Upper

43 100

45 0.2 7.9 11.9#

61 0.1 7.4 11.2#

70 1.4 5.8 8.6#

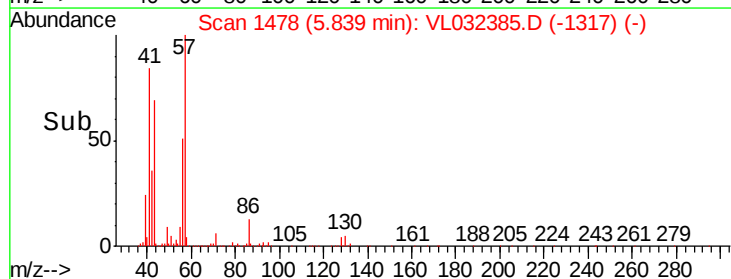
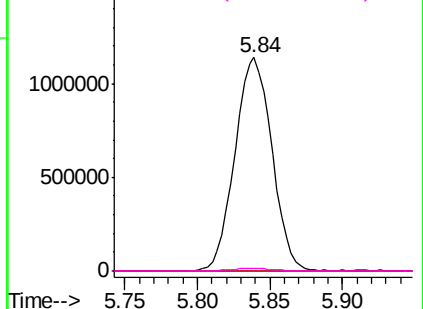


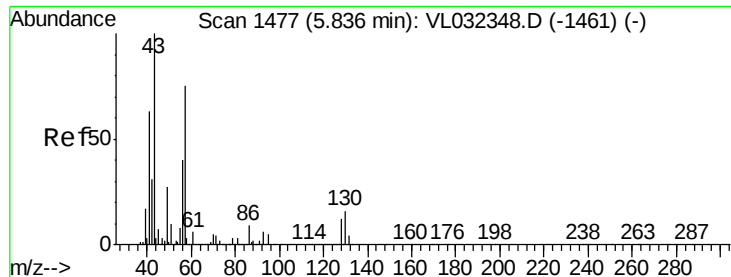
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

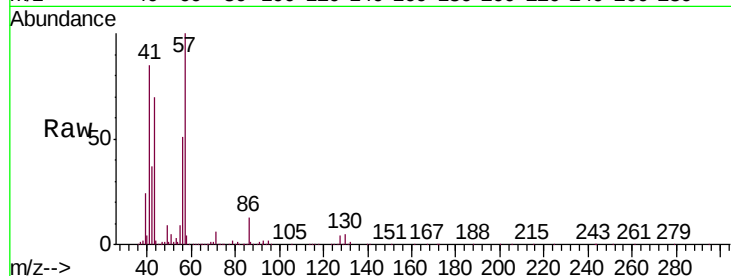




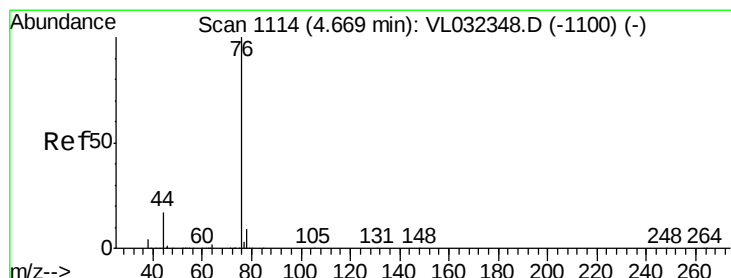
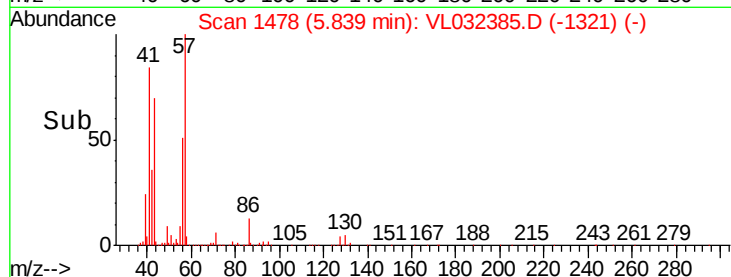
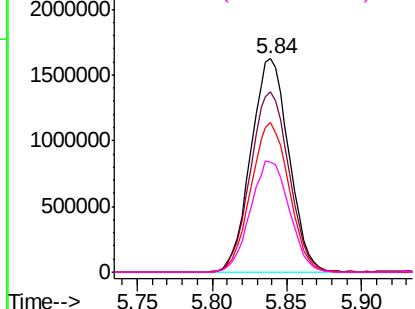
#26
Hexane
Concen: 17.587 ppbv
RT: 5.84 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL

Tgt Ion:	57	Resp:	2875939
Ion	Ratio	Lower	Upper
57	100		
41	86.1	68.0	102.0
43	70.3	175.3	262.9#
56	53.2	42.0	63.0

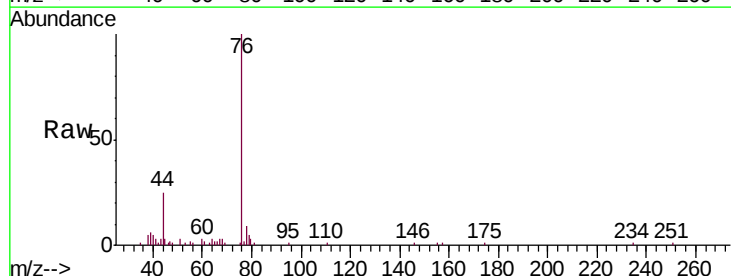


Abundance Ion 57.10 (56.80 to 57.80): VL0
2500000 Ion 41.10 (40.80 to 41.80): VL0
2000000 Ion 43.10 (42.80 to 43.80): VL0
1500000 Ion 56.10 (55.80 to 56.80): VL0
1000000
500000
0

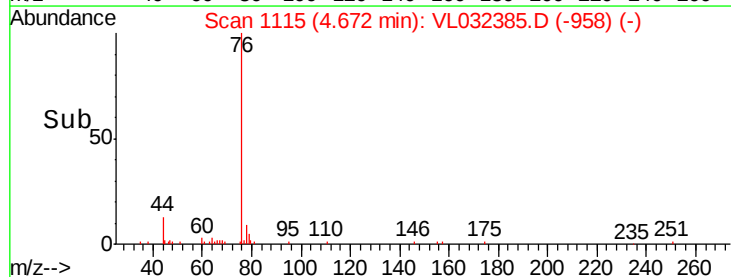
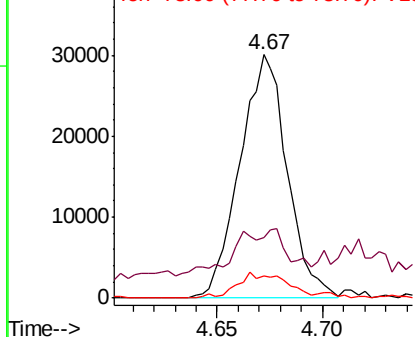


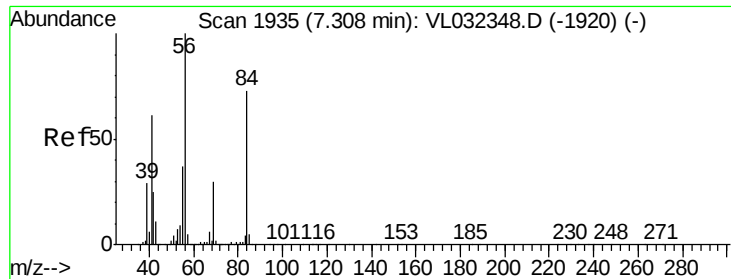
#27
Carbon Disulfide
Concen: 0.308 ppbv
RT: 4.67 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion:	76	Resp:	46936
Ion	Ratio	Lower	Upper
76	100		
44	28.6	14.4	21.6#
78	12.4	7.4	11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
40000 Ion 44.10 (43.80 to 44.80): VL0
30000 Ion 78.00 (77.70 to 78.70): VL0
20000
10000
0

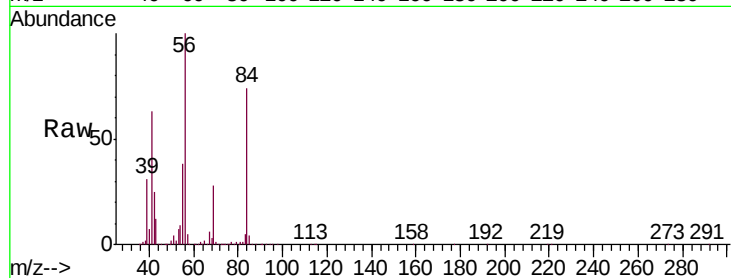




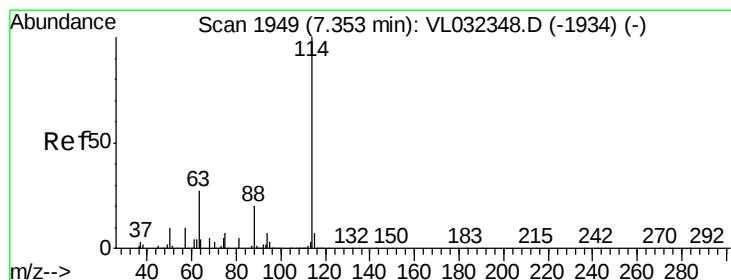
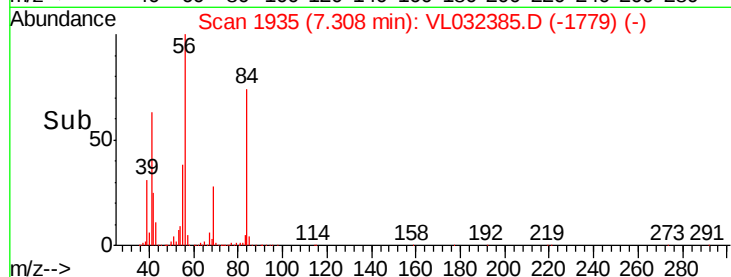
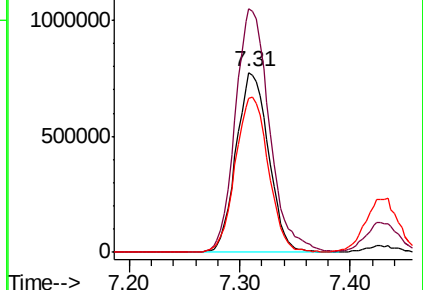
#30
Cyclohexane
Concen: 12.709 ppbv
RT: 7.31 min Scan# 1935
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL

Tgt Ion: 84 Resp: 1583178
Ion Ratio Lower Upper
84 100
56 142.4 115.7 173.5
41 87.7 67.9 101.9

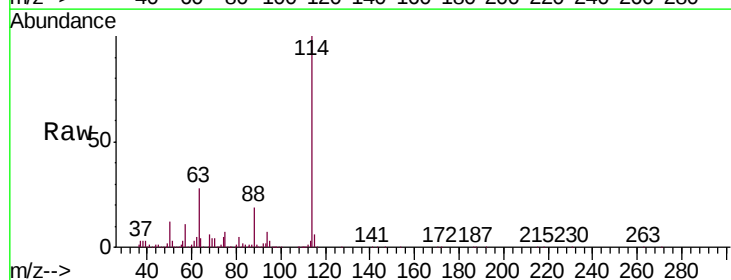


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

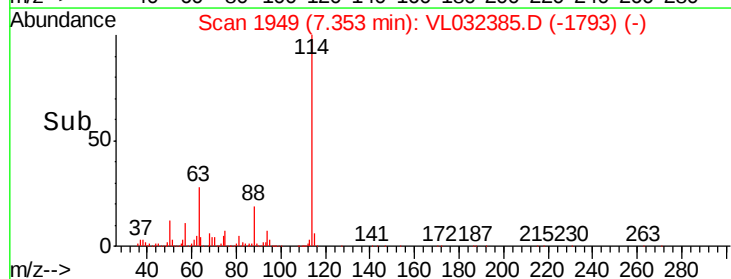
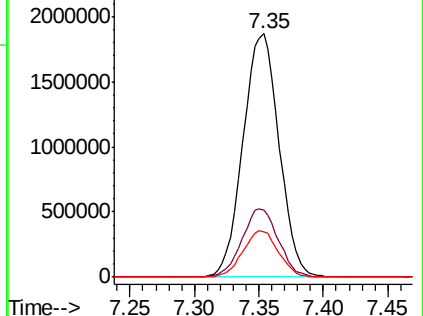


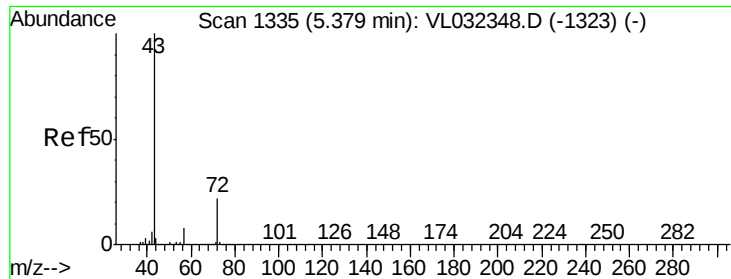
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.35 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion: 114 Resp: 3643257
Ion Ratio Lower Upper
114 100
63 28.7 22.0 33.0
88 18.7 15.3 22.9



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

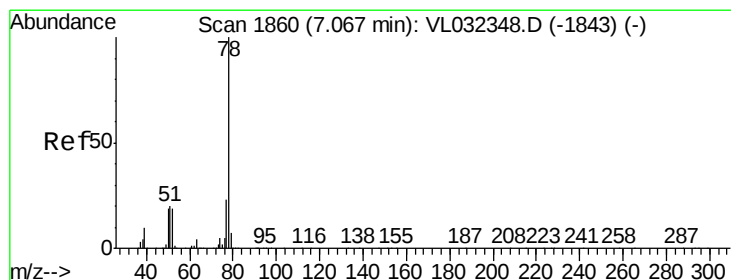
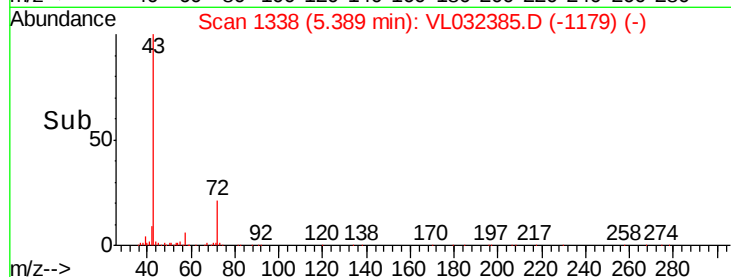
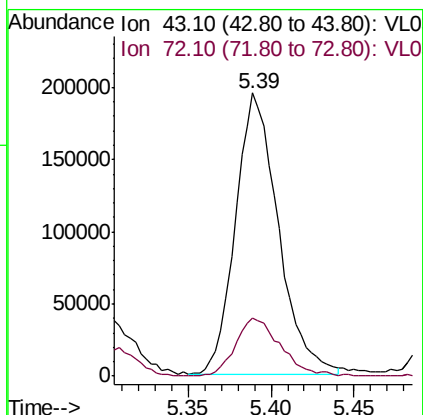
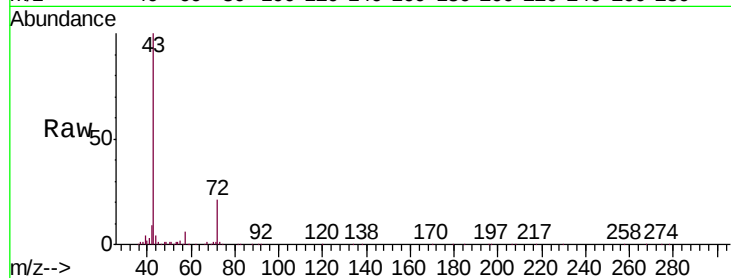




#34
2-Butanone
Concen: 1.403 ppbv
RT: 5.39 min Scan# 1338
Delta R.T. 0.01 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

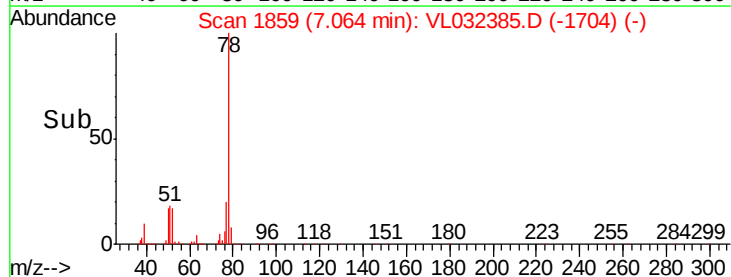
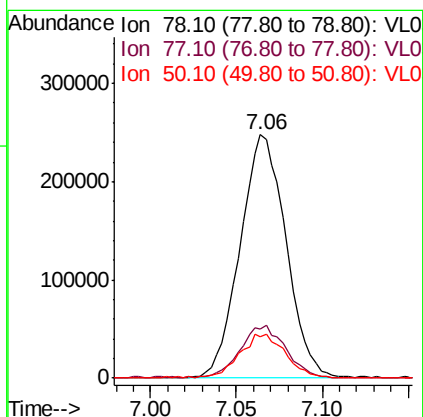
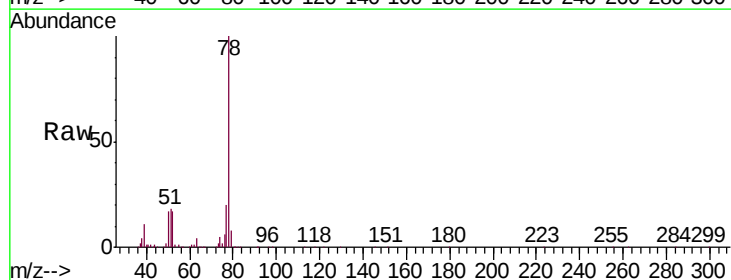
Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL

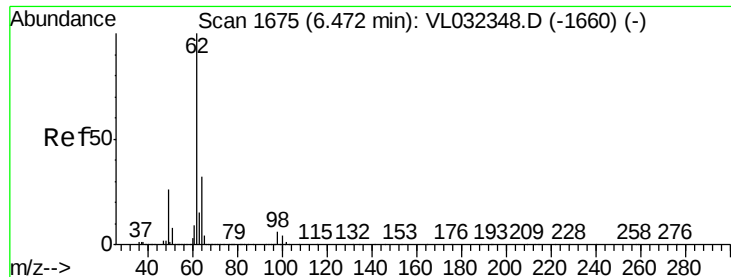
Tgt Ion: 43 Resp: 347830
Ion Ratio Lower Upper
43 100
72 21.9 17.9 26.9



#36
Benzene
Concen: 1.483 ppbv
RT: 7.06 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion: 78 Resp: 458034
Ion Ratio Lower Upper
78 100
77 20.4 18.0 27.0
50 16.8 15.1 22.7

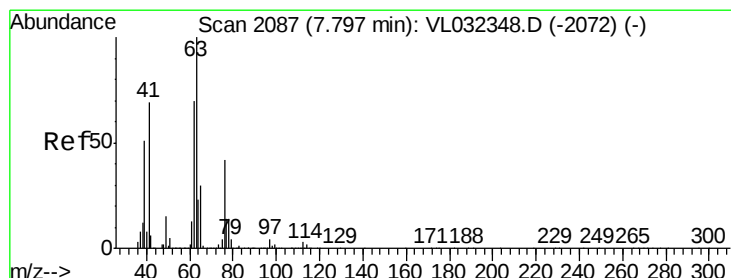
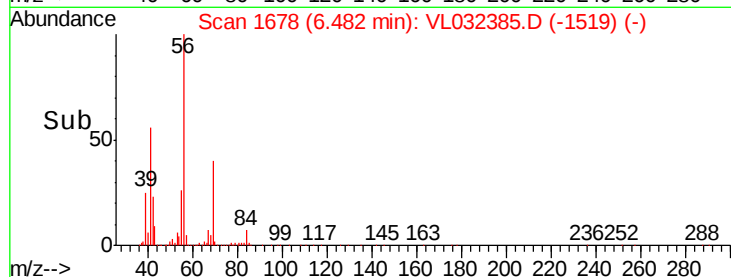
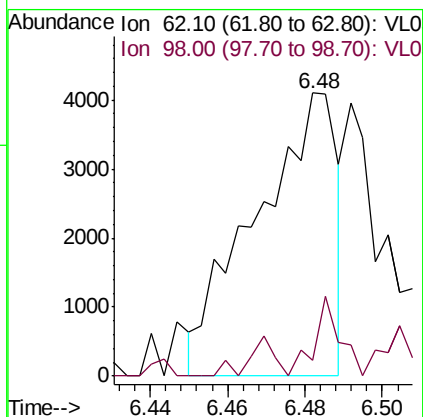
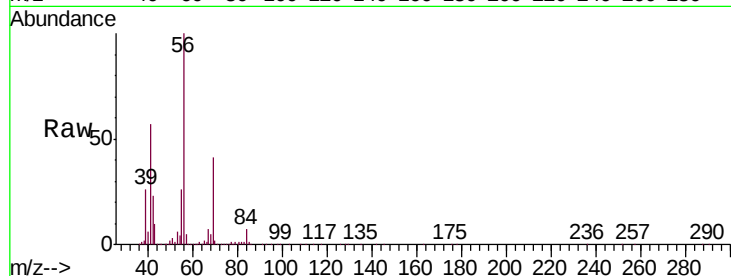




#37
 1,2-Dichloroethane
 Concen: 0.032 ppbv
 RT: 6.48 min Scan# 1678
 Delta R.T. 0.01 min
 Lab File: VL032385.D
 Acq: 16 Aug 2018 20:22

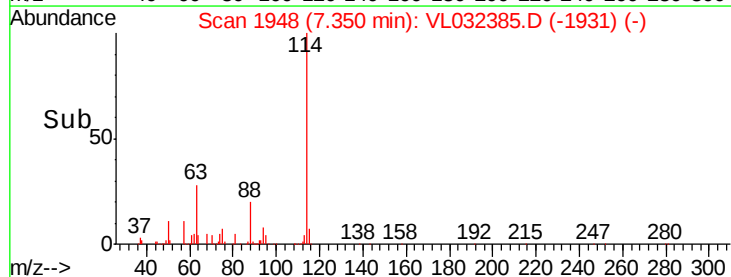
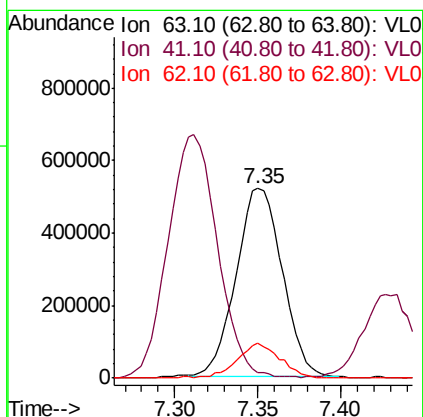
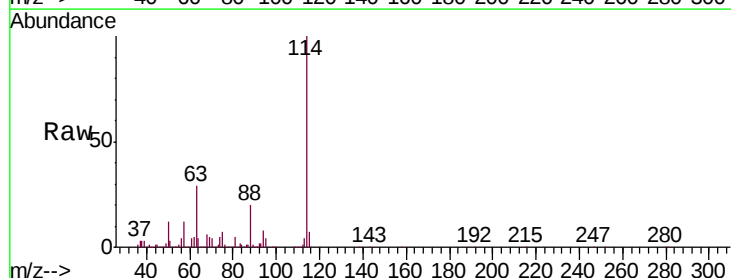
Instrument :
 MSVOA_L
 ClientSampleId :
 SG06-MIVIDL

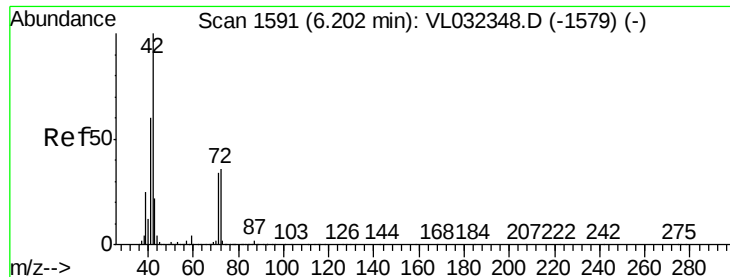
Tgt Ion: 62 Resp: 5968
 Ion Ratio Lower Upper
 62 100
 98 32.0 5.0 7.6#



#39
 1,2-Dichloropropane
 Concen: 7.839 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.45 min
 Lab File: VL032385.D
 Acq: 16 Aug 2018 20:22

Tgt Ion: 63 Resp: 1011457
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.5 83.3#
 62 18.3 56.3 84.5#





#41

Tetrahydrofuran

Concen: 4.099 ppbv

RT: 6.49 min Scan# 1679

Delta R.T. 0.28 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

Instrument :

MSVOA_L

ClientSampleId :

SG06-MIVIDL

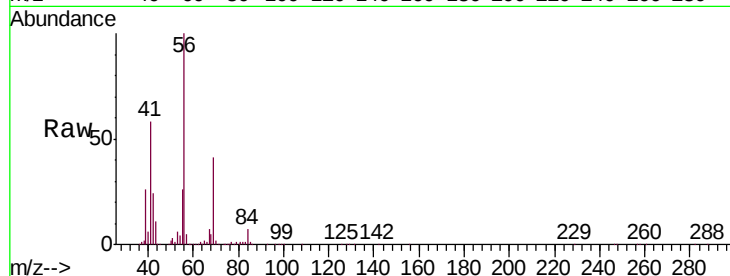
Tgt Ion: 42 Resp: 545666

Ion Ratio Lower Upper

42 100

72 0.1 29.8 44.6#

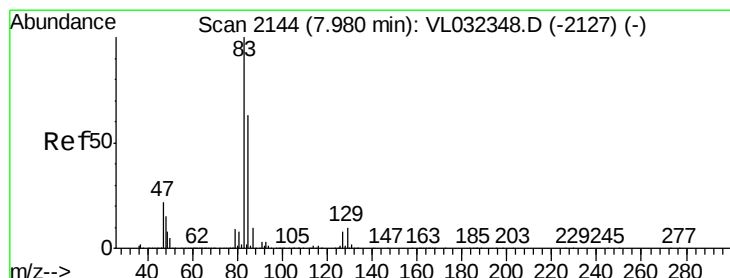
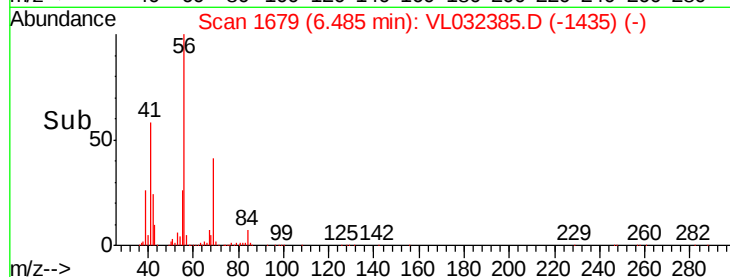
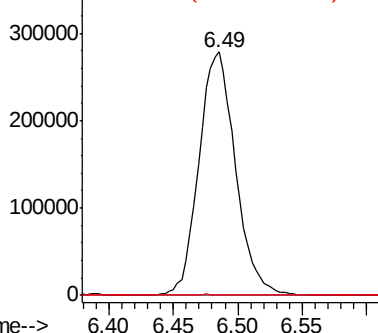
71 0.0 28.2 42.2#



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: 0.120 ppbv

RT: 7.98 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

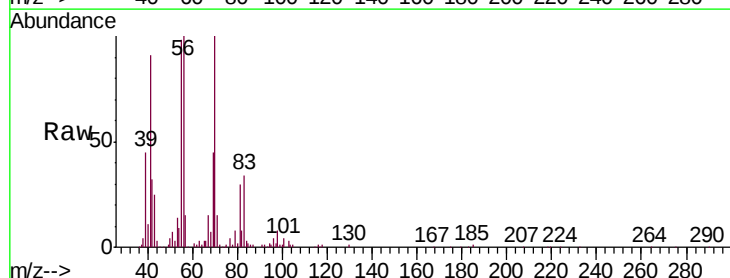
Tgt Ion: 83 Resp: 29490

Ion Ratio Lower Upper

83 100

85 2.4 50.4 75.6#

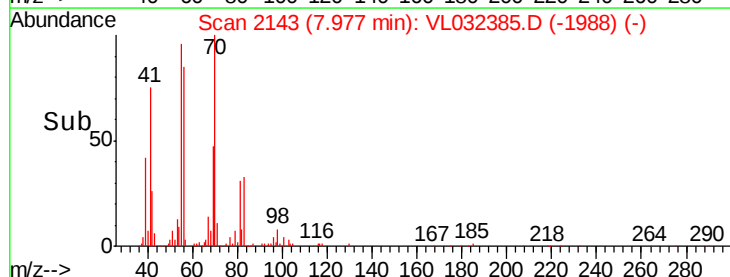
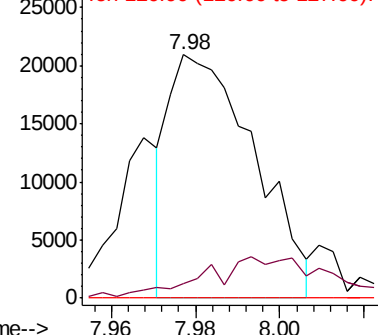
127 0.0 6.1 9.1#

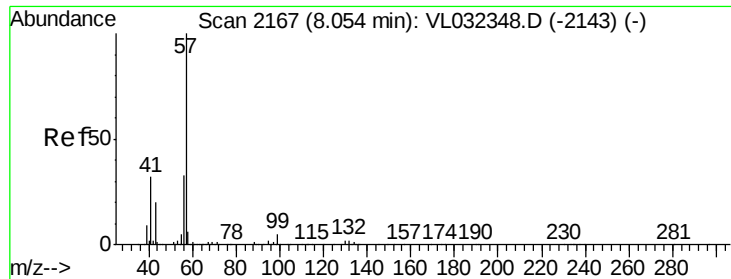


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

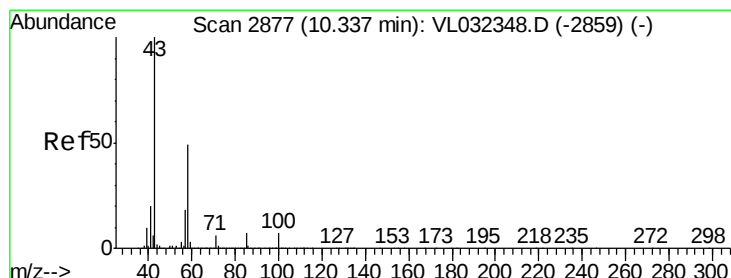
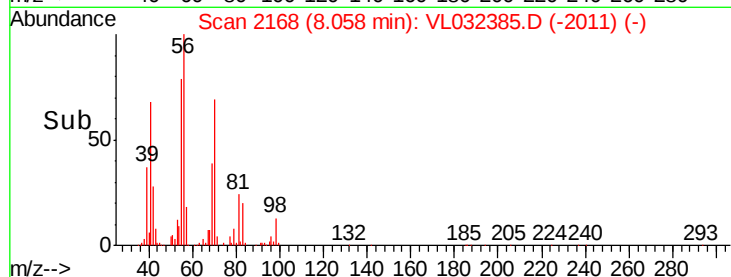
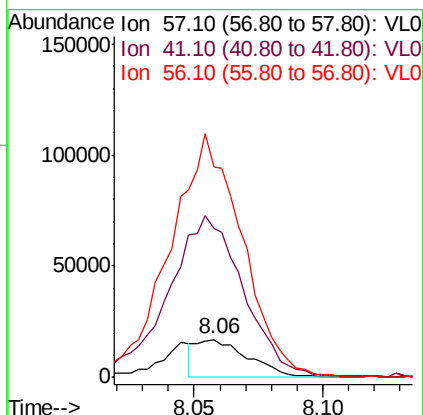
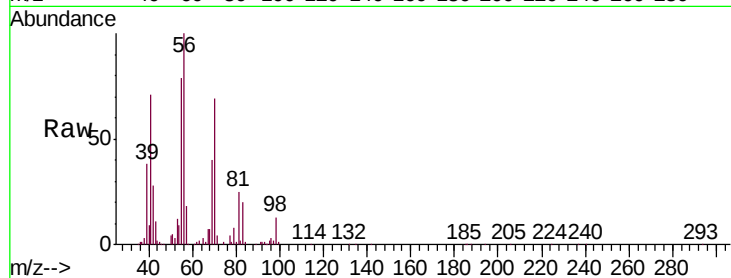




#44
 2,2,4-Trimethylpentane
 Concen: 0.043 ppbv
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VL032385.D
 Acq: 16 Aug 2018 20:22

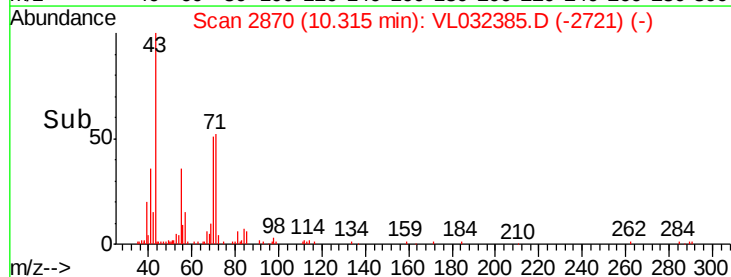
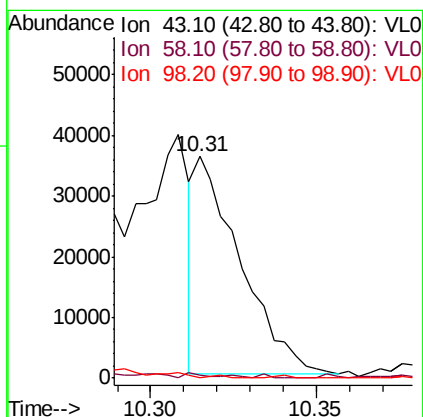
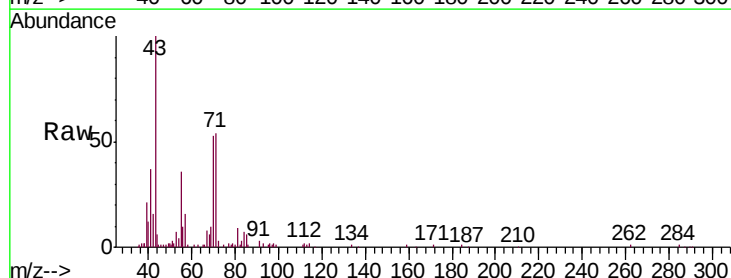
Instrument :
 MSVOA_L
 ClientSampleId :
 SG06-MIVIDL

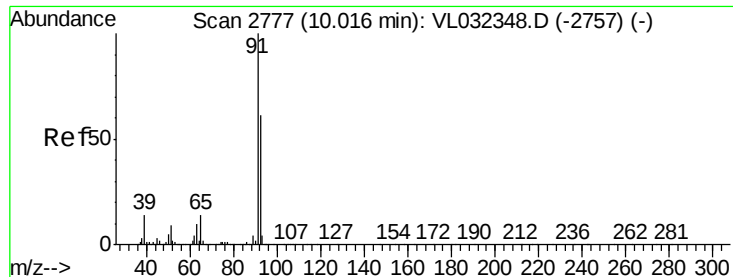
Tgt Ion: 57 Resp: 23911
 Ion Ratio Lower Upper
 57 100
 41 605.5 24.3 36.5#
 56 892.0 25.7 38.5#



#51
 2-Hexanone
 Concen: 0.135 ppbv
 RT: 10.31 min Scan# 2870
 Delta R.T. -0.02 min
 Lab File: VL032385.D
 Acq: 16 Aug 2018 20:22

Tgt Ion: 43 Resp: 33984
 Ion Ratio Lower Upper
 43 100
 58 0.0 39.5 59.3#
 98 0.0 0.3 0.5#





#53

Toluene

Concen: 3.732 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

Instrument :

MSVOA_L

ClientSampleId :

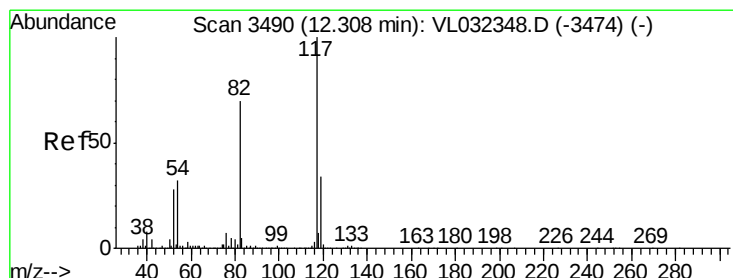
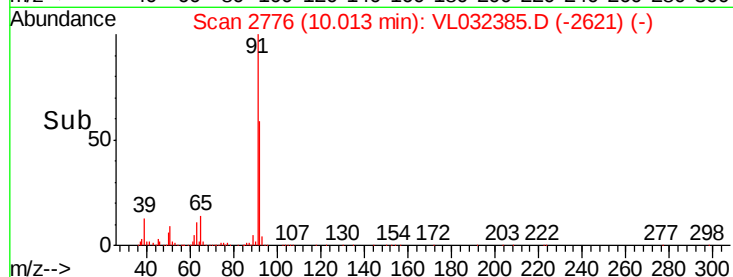
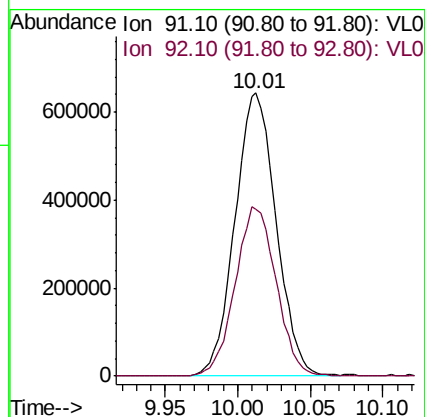
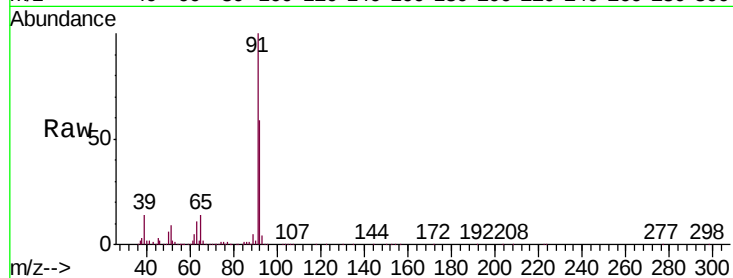
SG06-MIVIDL

Tgt Ion: 91 Resp: 1263532

Ion Ratio Lower Upper

91 100

92 60.2 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.31 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VL032385.D

Acq: 16 Aug 2018 20:22

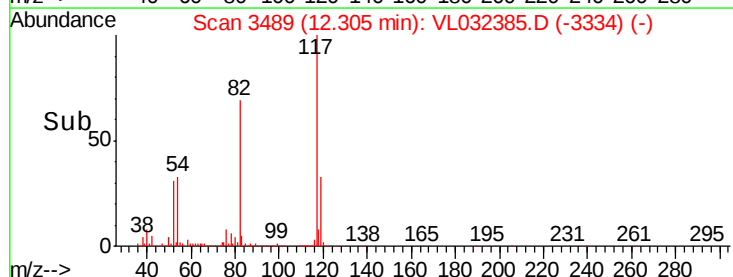
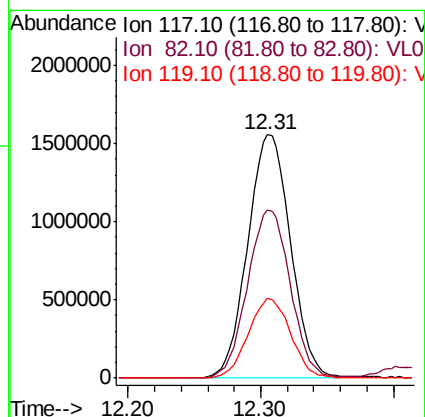
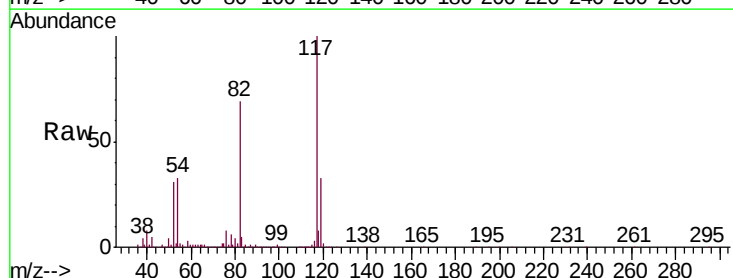
Tgt Ion: 117 Resp: 3497573

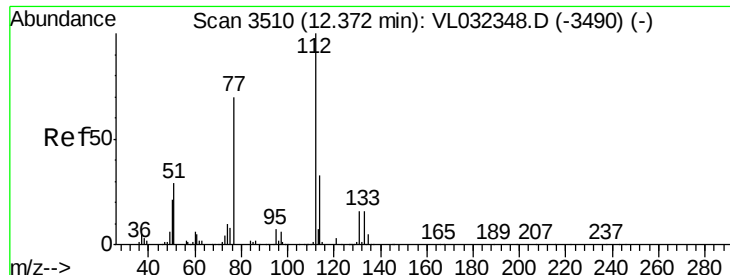
Ion Ratio Lower Upper

117 100

82 69.1 55.1 82.7

119 32.4 46.0 69.0#

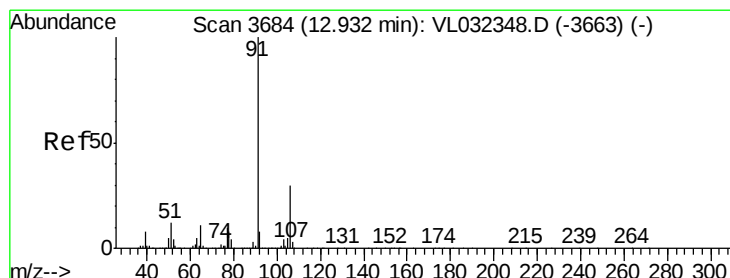
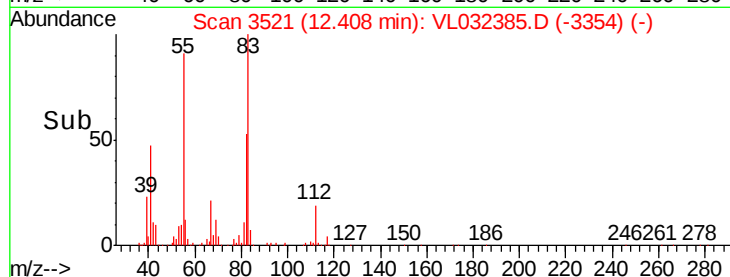
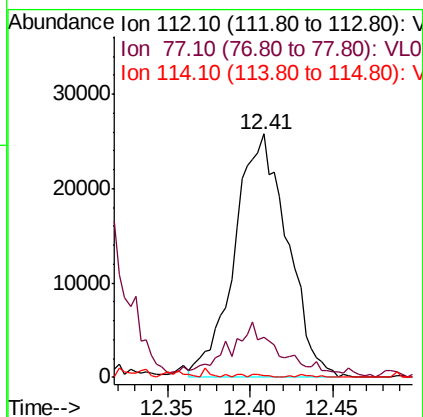
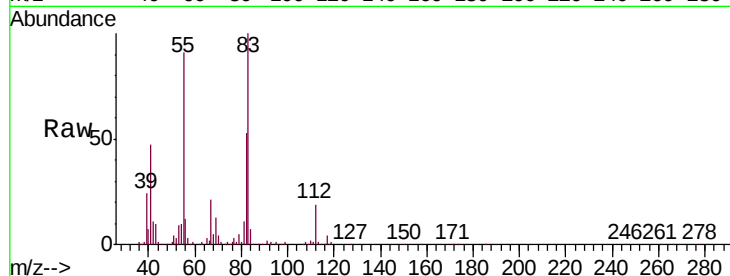




#57
Chlorobenzene
Concen: 0.217 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. 0.04 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

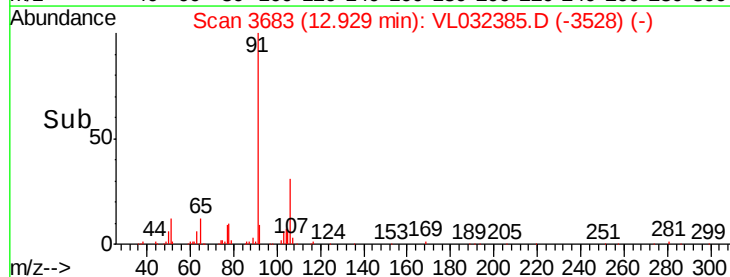
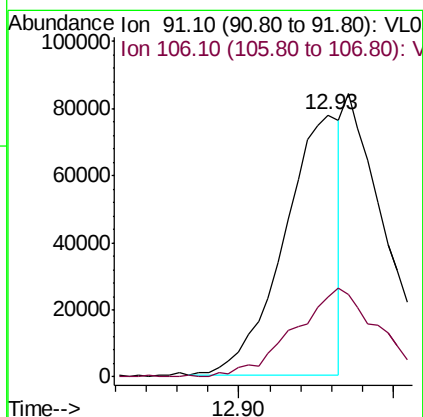
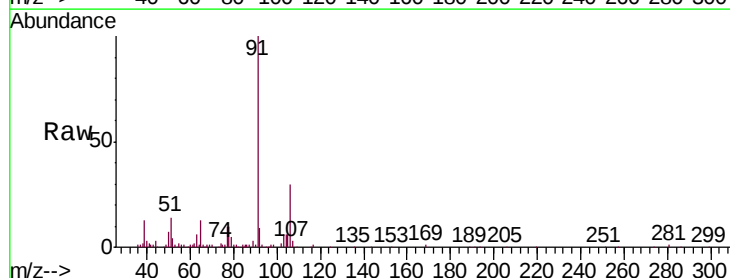
Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL

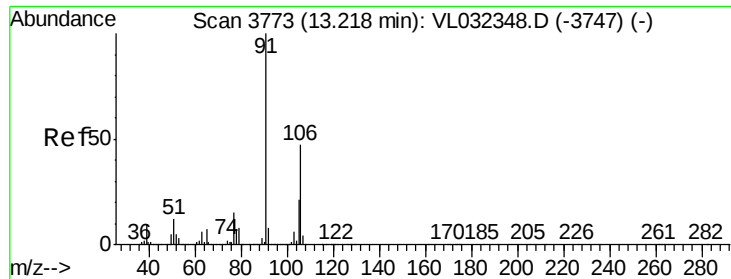
Tgt Ion: 112 Resp: 57112
Ion Ratio Lower Upper
112 100
77 14.0 56.6 84.8#
114 0.6 29.4 36.0#



#58
Ethyl Benzene
Concen: 0.230 ppbv
RT: 12.93 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion: 91 Resp: 96766
Ion Ratio Lower Upper
91 100
106 30.1 24.3 36.5

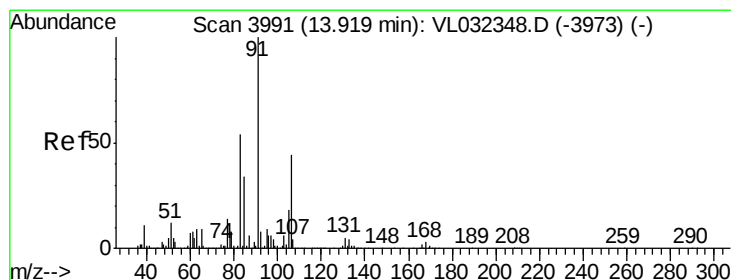
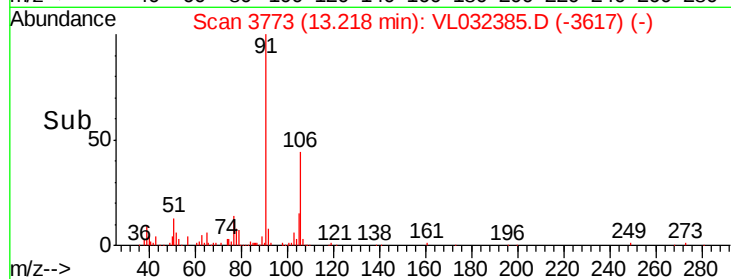
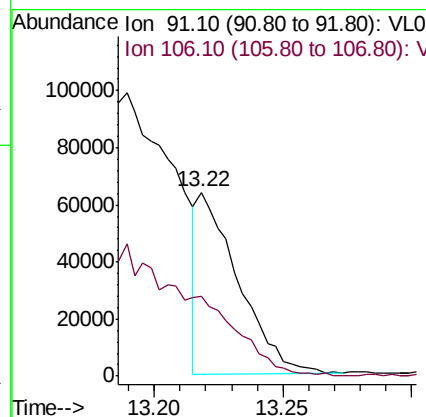
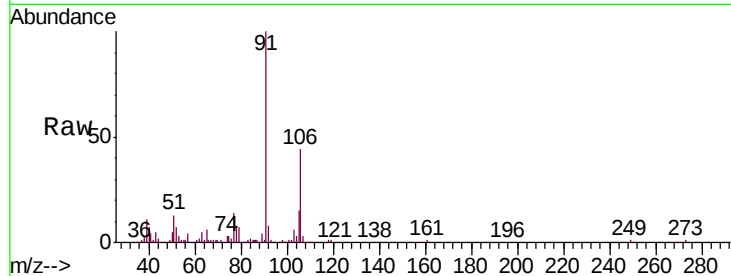




#59
m/p-Xylene
Concen: 0.194 ppbv
RT: 13.22 min Scan# 3773
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

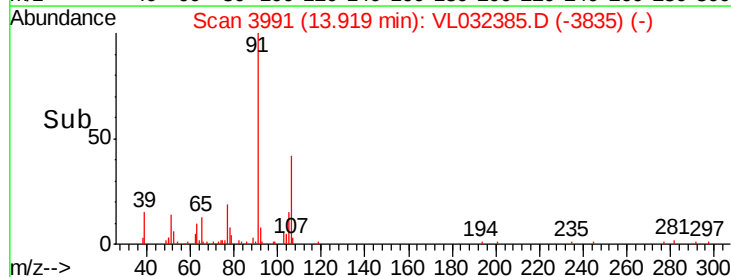
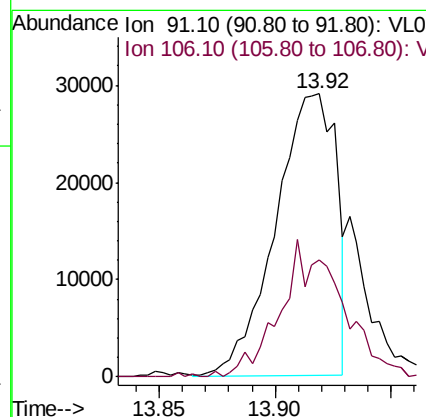
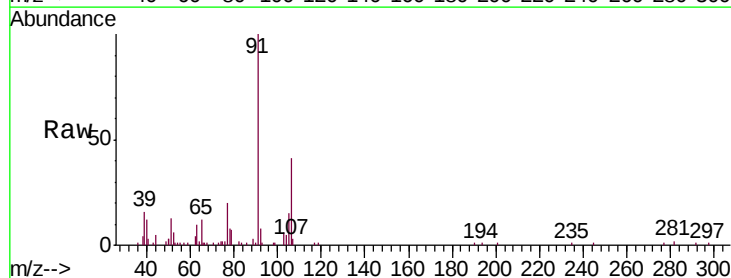
Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL

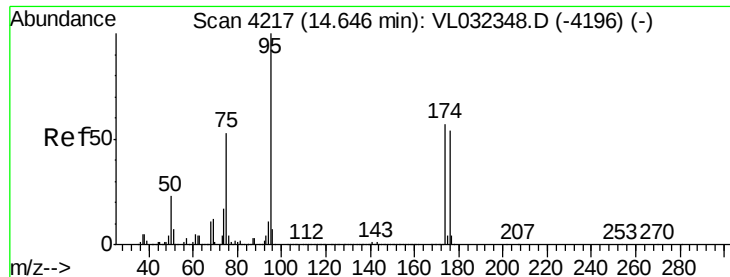
Tgt Ion: 91 Resp: 69205
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#



#60
o-Xylene
Concen: 0.150 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. 0.00 min
Lab File: VL032385.D
Acq: 16 Aug 2018 20:22

Tgt Ion: 91 Resp: 52769
Ion Ratio Lower Upper
91 100
106 49.6 22.3 66.8

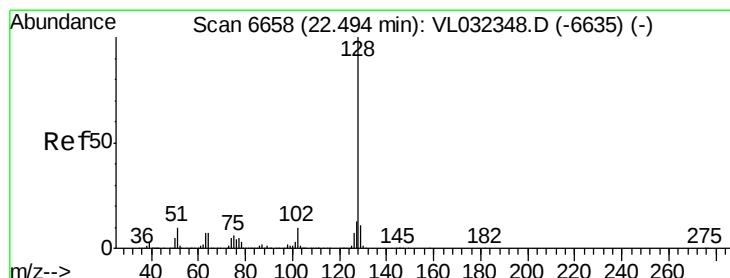
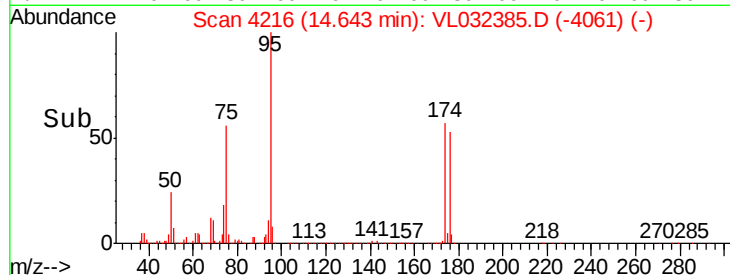
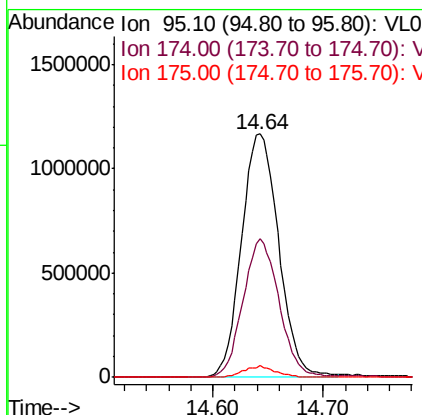
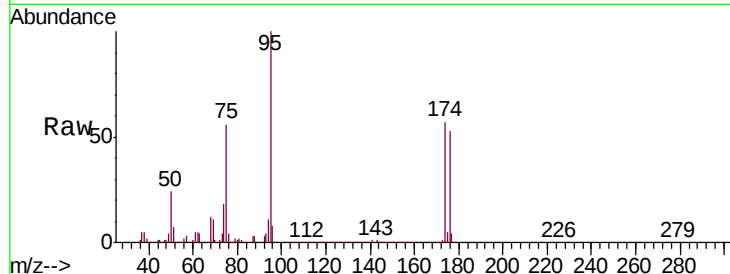




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.241 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.00 min
 Lab File: VL032385.D
 Acq: 16 Aug 2018 20:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SG06-MIVIDL

Tgt Ion: 95 Resp: 2732628
 Ion Ratio Lower Upper
 95 100
 174 55.9 46.2 69.4
 175 4.1 3.4 5.0



#79
 Naphthalene
 Concen: 0.328 ppbv
 RT: 22.48 min Scan# 6655
 Delta R.T. -0.01 min
 Lab File: VL032385.D
 Acq: 16 Aug 2018 20:22

Tgt Ion: 128 Resp: 350
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.6 13.0#

