

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL061319\
 Data File : VL033924.D
 Acq On : 14 Jun 2019 8:45
 Operator : SY/AP
 Sample : K3295-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V2

Quant Time: Jun 14 09:18:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1013091	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2718311	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2852186	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2098879	8.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.60%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.07	85	232049	1.412	ppbv 100
3) Chlorodifluoromethane	2.98	51	156770	1.314	ppbv # 71
4) Chloromethane	3.16	50	22298	0.328	ppbv 99
7) Chloroethane	3.60	64	984	0.039	ppbv # 70
9) Propene	3.03	41	903220	20.240	ppbv 92
10) Heptane	8.24	43	558617	4.952	ppbv # 78
11) Trichlorofluoromethane	3.99	101	66106	0.312	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.55	101	4693	0.033	ppbv # 13
13) Ethanol	3.73	45	28478938	1961.429	ppbv # 48
15) Acetone	3.89	43	22018941	149.023	ppbv # 57
16) 1,3-Butadiene	3.34	39	1936006	34.425	ppbv # 18
17) tert-Butyl alcohol	4.46	59	840558	7.277	ppbv # 72
19) Isopropyl Alcohol	4.05	45	611701	7.247	ppbv # 94
20) Methylene Chloride	4.41	84	35537	0.617	ppbv # 92
21) Allyl Chloride	4.46	41	185119	2.206	ppbv # 18
23) Vinyl Acetate	5.14	43	449496	2.617	ppbv # 1
25) Ethyl Acetate	5.76	43	4098771	18.215	ppbv # 90
26) Hexane	5.77	57	360376	3.518	ppbv # 1
27) Carbon Disulfide	4.61	76	257660	1.810	ppbv 97
29) Chloroform	5.85	83	22568	0.129	ppbv 93
30) Cyclohexane	7.23	84	192653	2.661	ppbv 97
31) cis-1,2-Dichloroethene	5.76	61	530959	5.910	ppbv # 25
34) 2-Butanone	5.32	43	9645431	62.897	ppbv 93
36) Benzene	7.00	78	581206	2.799	ppbv 98
37) 1,2-Dichloroethane	6.41	62	19996	0.130	ppbv # 96
38) Trichloroethene	7.95	130	29846	0.369	ppbv # 86
39) 1,2-Dichloropropane	7.73	63	24981	0.312	ppbv 96
41) Tetrahydrofuran	6.14	42	167760	2.155	ppbv 92
43) Methyl Methacrylate	8.13	69	2576	0.033	ppbv # 1
44) 2,2,4-Trimethylpentane	7.98	57	518378	1.404	ppbv # 87
50) 4-Methyl-2-Pentanone	8.87	43	203758	0.891	ppbv # 39
51) 2-Hexanone	10.27	43	2394697	13.410	ppbv # 99
52) Tetrachloroethene	11.36	164	1416779	19.391	ppbv 95
53) Toluene	9.94	91	16697870	72.667	ppbv 89
58) Ethyl Benzene	12.86	91	1341012	4.170	ppbv 97
59) m/p-Xylene	13.11	91	3756459	12.846	ppbv 95
60) o-Xylene	13.84	91	1574127	5.214	ppbv 98
61) Styrene	13.68	104	423381	2.167	ppbv 98
62) Isopropylbenzene	14.81	105	115268	0.283	ppbv 96
63) 1,1,2,2-Tetrachloroethane	13.83	83	16639	0.073	ppbv # 26
64) n-propylbenzene	15.71	120	121080	1.162	ppbv 91

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 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

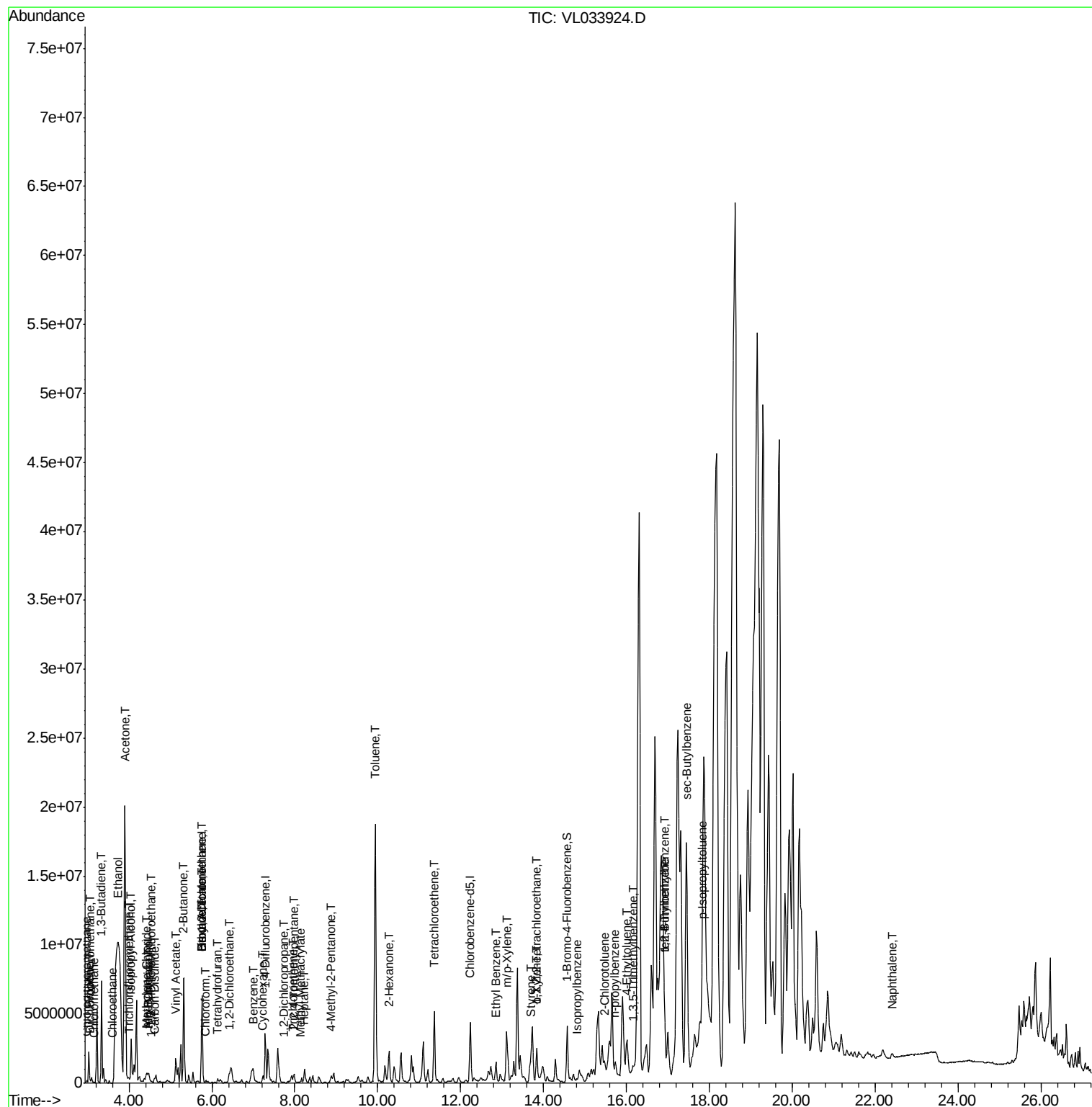
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	16.92	119	251959	0.669	ppbv #	71
67) sec-Butylbenzene	17.46	105	68587	0.130	ppbv	100
69) p-Isopropyltoluene	17.81	119	100563	0.229	ppbv #	47
71) 2-Chlorotoluene	15.46	91	210718	0.703	ppbv	71
72) 4-Ethyltoluene	15.99	105	692279	2.015	ppbv	96
73) 1,3,5-Trimethylbenzene	16.15	105	619242	1.830	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	2262218	5.800	ppbv #	76
79) Naphthalene	22.41	128	258621	0.829	ppbv	99

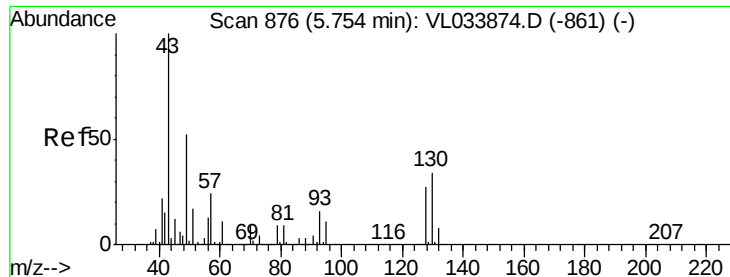
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

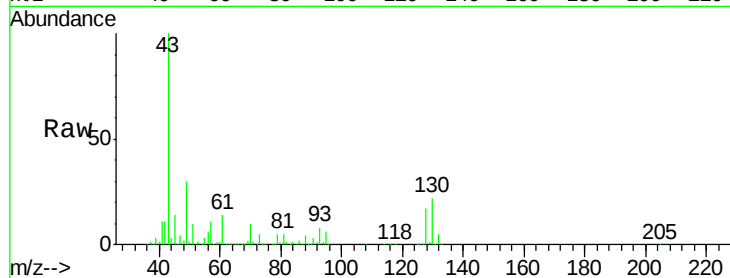
Tgt Ion: 49 Resp: 1013091

Ion Ratio Lower Upper

49 100

128 53.7 25.5 76.5

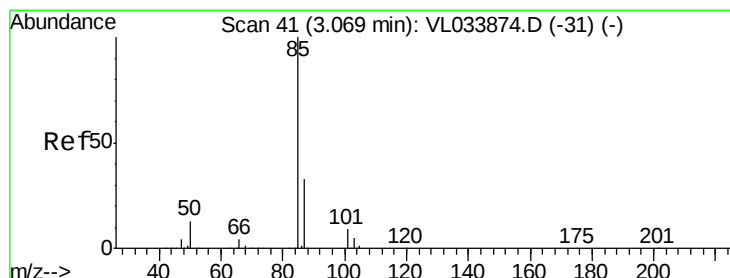
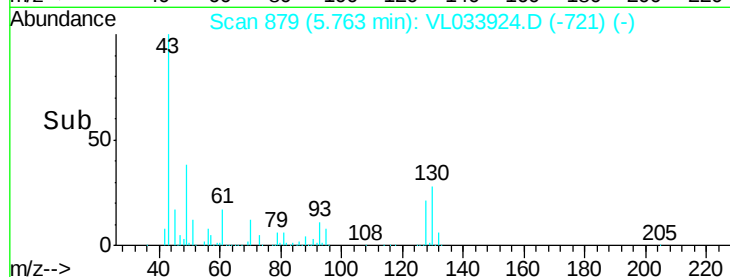
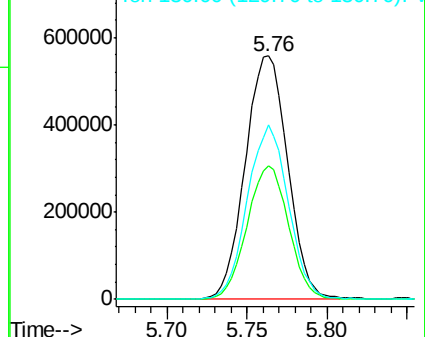
130 69.3 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.412 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033924.D

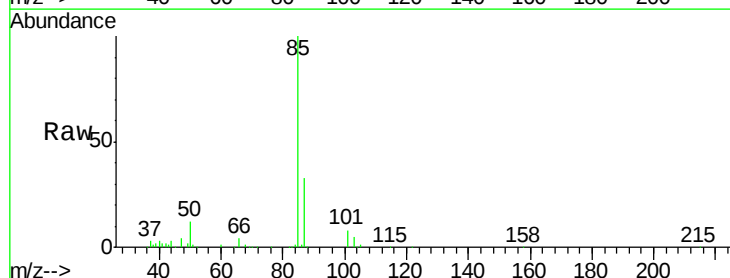
Acq: 14 Jun 2019 8:45

Tgt Ion: 85 Resp: 232049

Ion Ratio Lower Upper

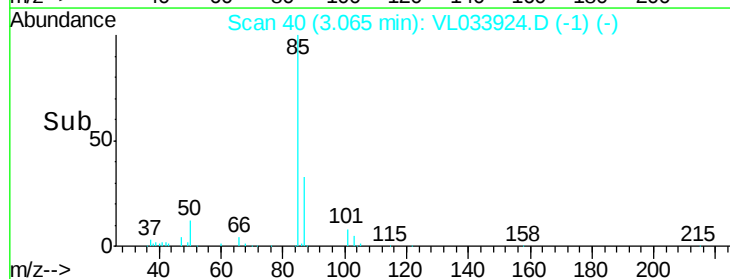
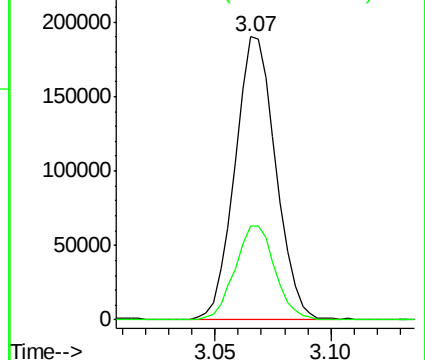
85 100

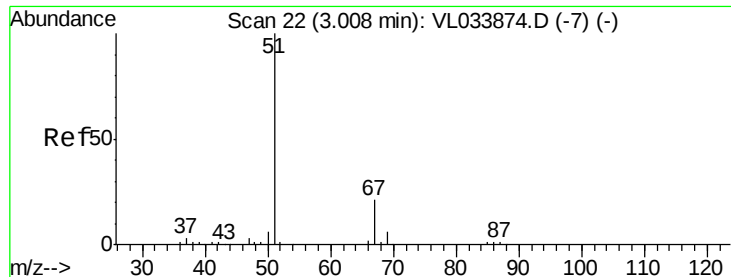
87 33.1 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

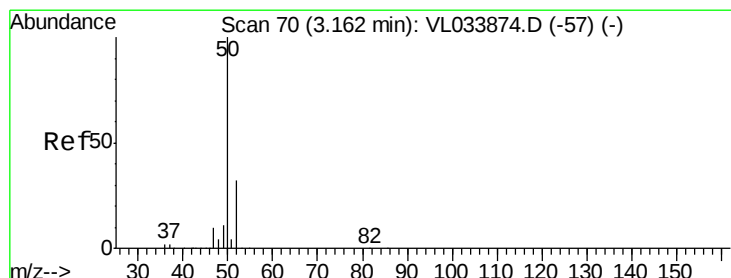
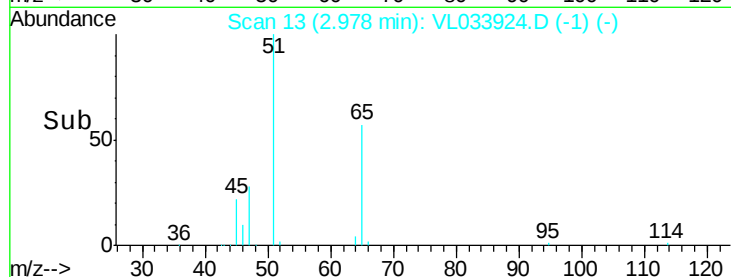
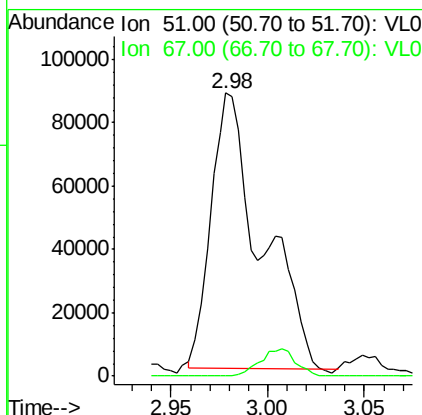
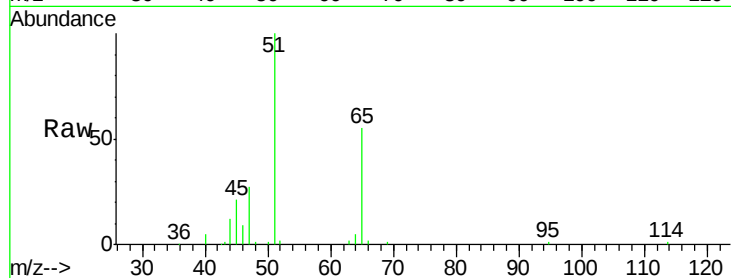




#3
 Chlorodifluoromethane
 Concen: 1.314 ppbv
 RT: 2.98 min Scan# 13
 Delta R.T. -0.03 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

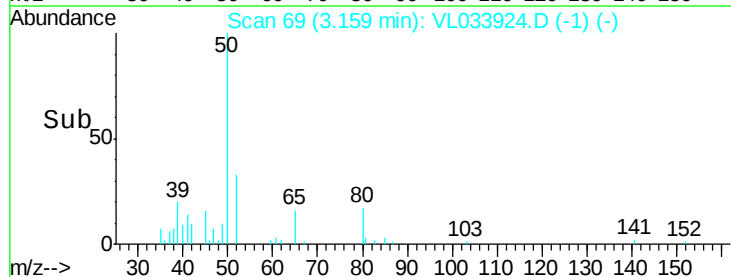
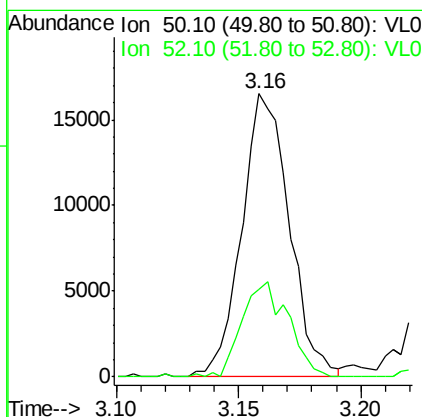
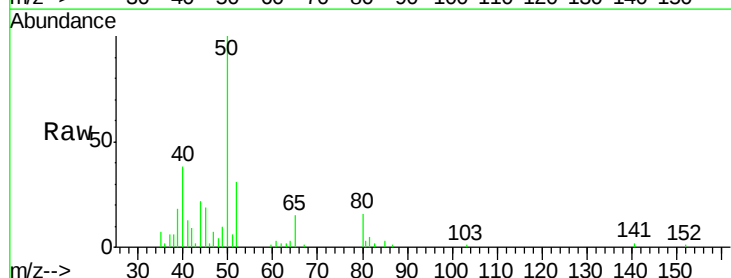
Instrument :
 MSVOA_L
 ClientSampleId :
 V2

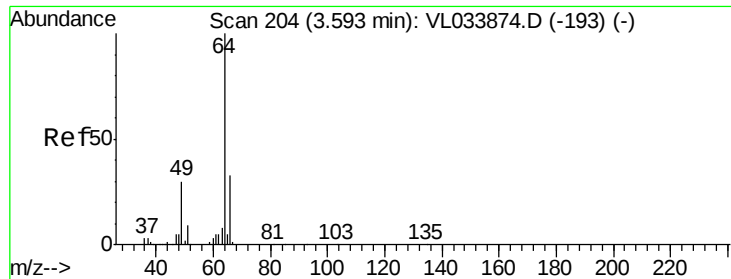
Tgt Ion: 51 Resp: 156770
 Ion Ratio Lower Upper
 51 100
 67 7.1 16.4 24.6#



#4
 Chloromethane
 Concen: 0.328 ppbv
 RT: 3.16 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Tgt Ion: 50 Resp: 22298
 Ion Ratio Lower Upper
 50 100
 52 30.9 25.4 38.0





#7

Chloroethane

Concen: 0.039 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampled :

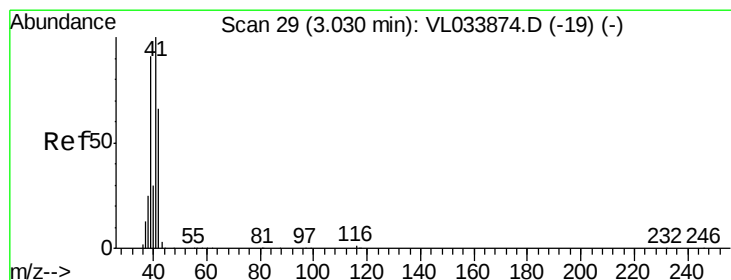
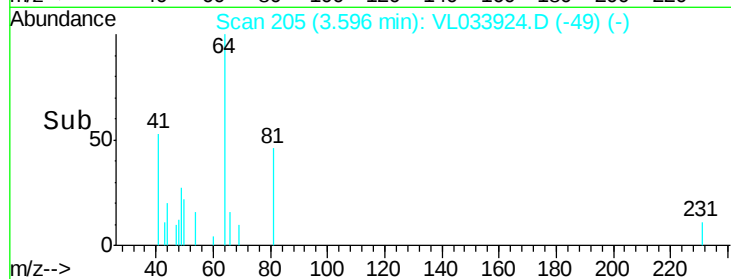
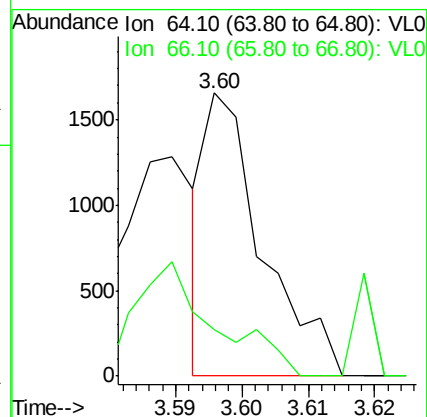
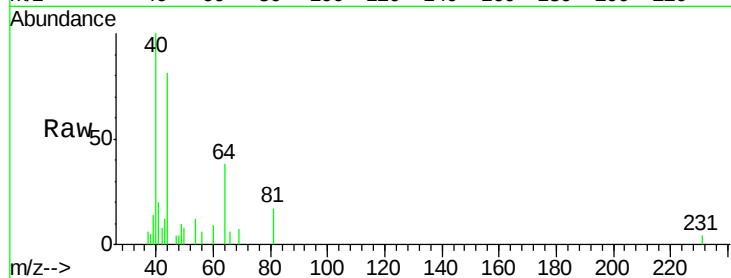
V2

Tgt Ion: 64 Resp: 984

Ion Ratio Lower Upper

64 100

66 16.4 26.7 40.1#



#9

Propene

Concen: 20.240 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033924.D

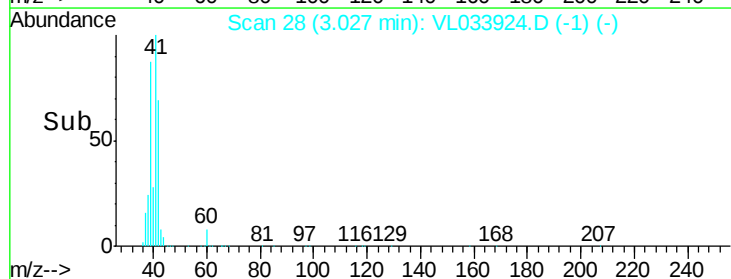
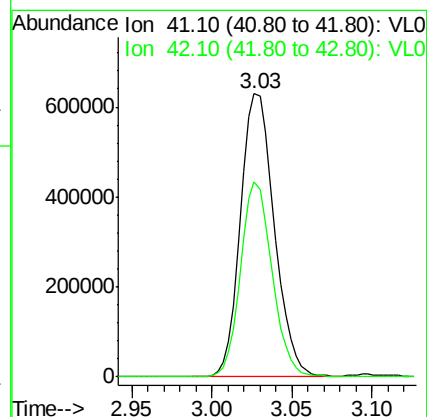
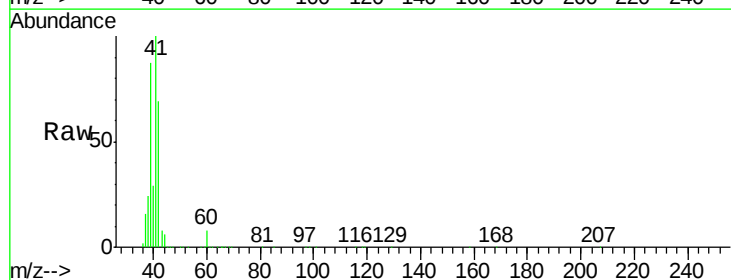
Acq: 14 Jun 2019 8:45

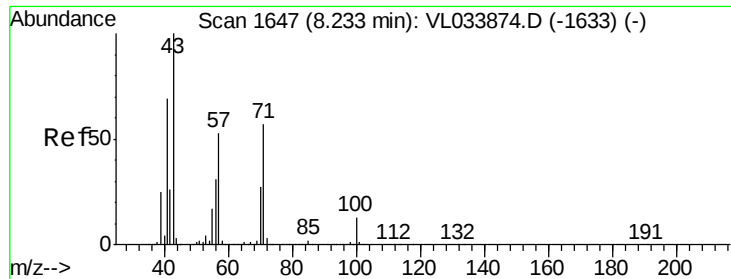
Tgt Ion: 41 Resp: 903220

Ion Ratio Lower Upper

41 100

42 64.1 56.3 84.5





#10

Heptane

Concen: 4.952 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

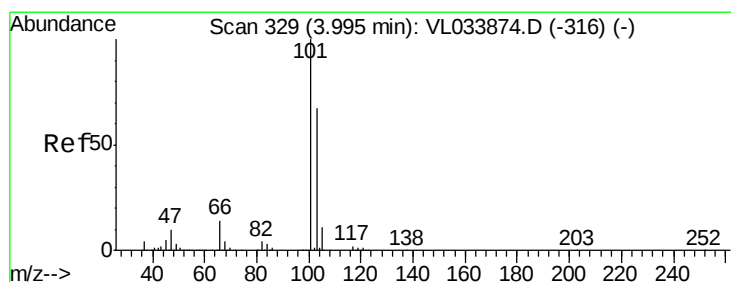
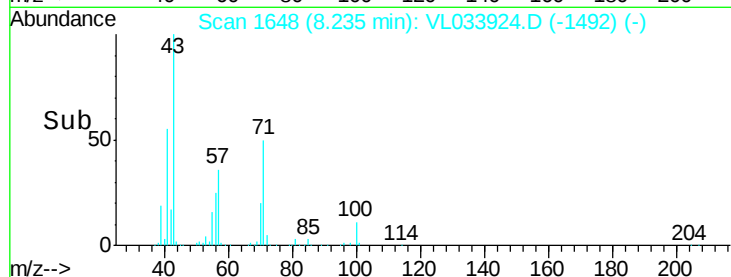
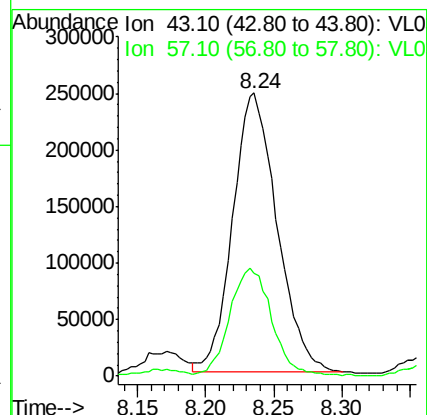
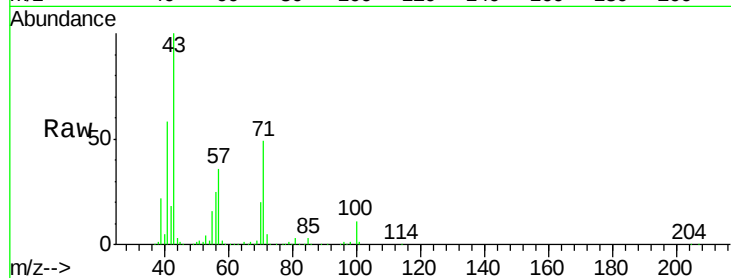
V2

Tgt Ion: 43 Resp: 558617

Ion Ratio Lower Upper

43 100

57 36.7 41.7 62.5#



#11

Trichlorofluoromethane

Concen: 0.312 ppbv

RT: 3.99 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL033924.D

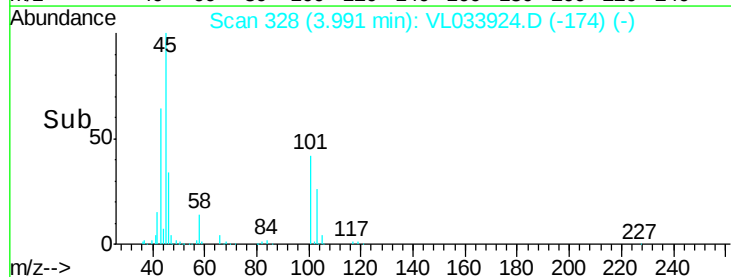
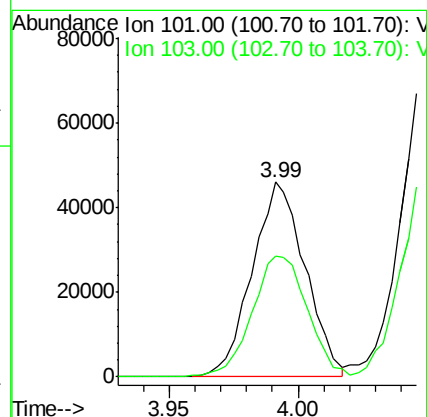
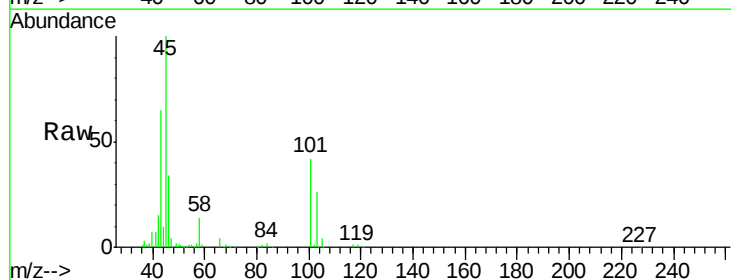
Acq: 14 Jun 2019 8:45

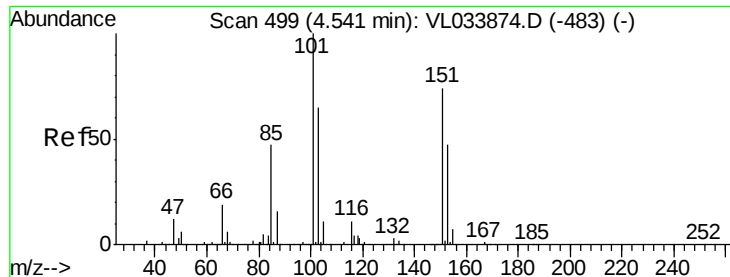
Tgt Ion: 101 Resp: 66106

Ion Ratio Lower Upper

101 100

103 61.1 53.6 80.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampled :

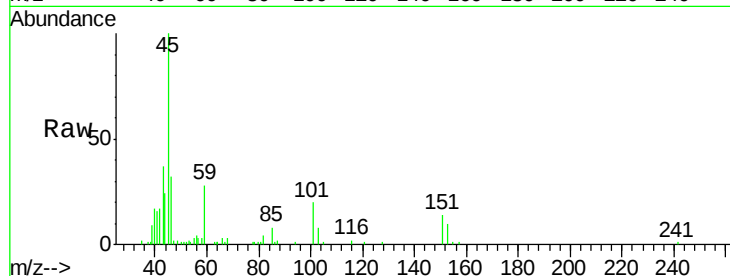
V2

Tgt Ion:101 Resp: 4693

Ion Ratio Lower Upper

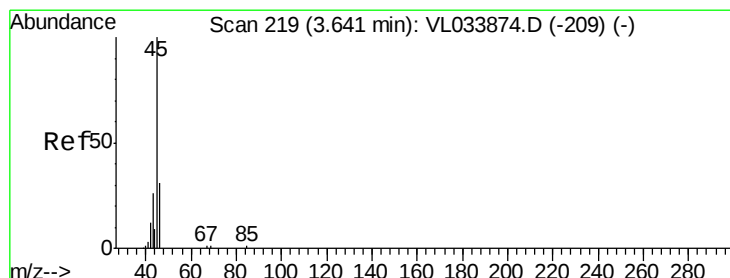
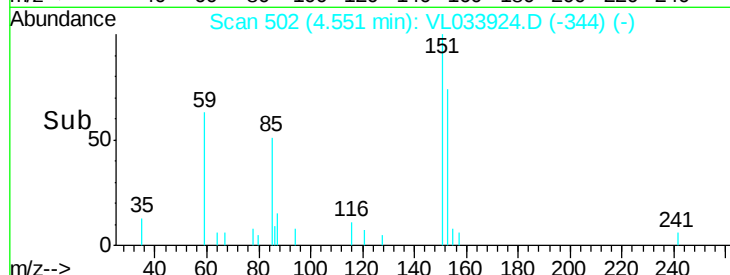
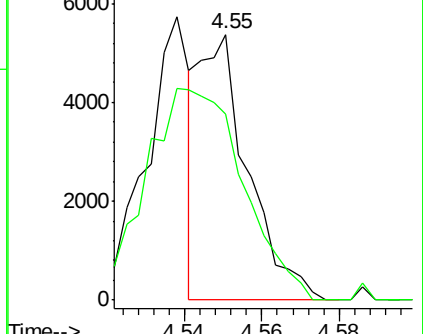
101 100

151 0.0 58.6 87.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 1961.429 ppbv

RT: 3.73 min Scan# 248

Delta R.T. 0.09 min

Lab File: VL033924.D

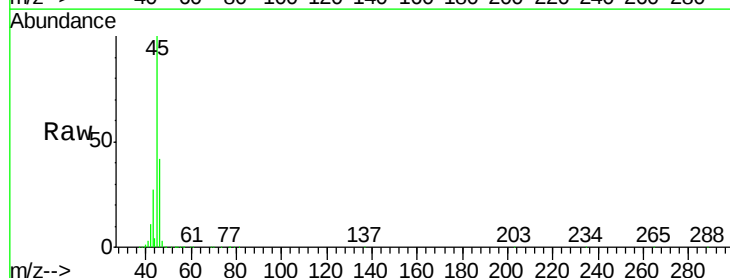
Acq: 14 Jun 2019 8:45

Tgt Ion: 45 Resp:28478938

Ion Ratio Lower Upper

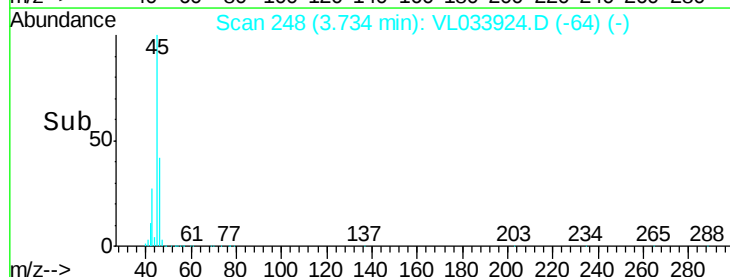
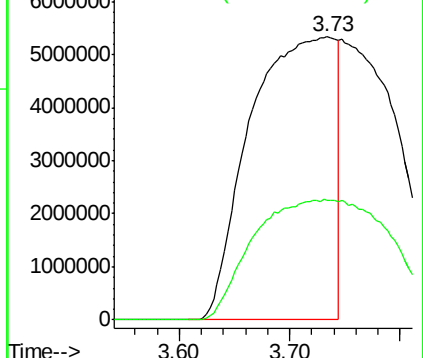
45 100

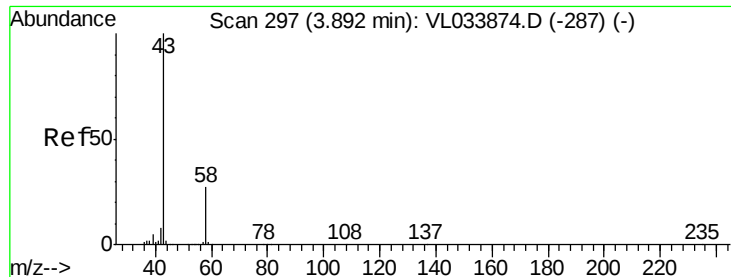
46 69.8 15.3 61.1#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 149.023 ppbv

RT: 3.89 min Scan# 298

Delta R.T. 0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

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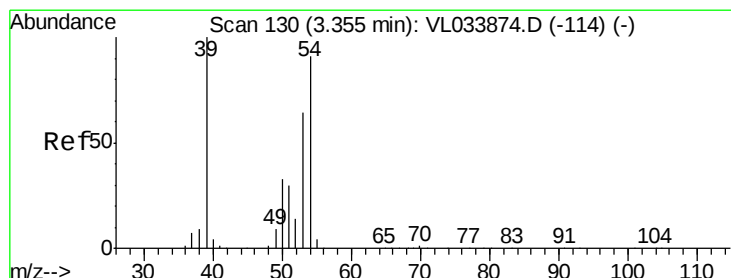
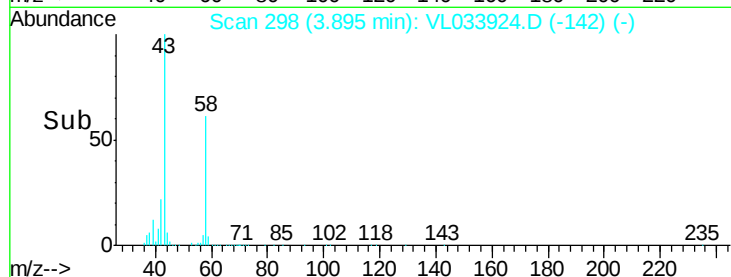
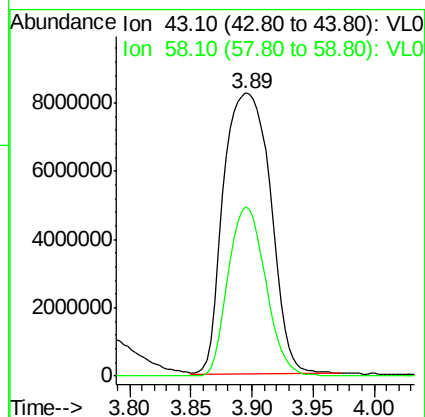
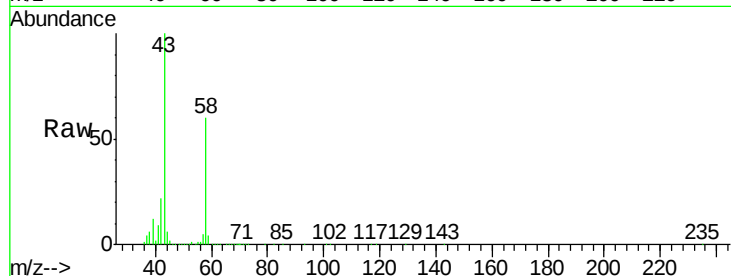
V2

Tgt Ion: 43 Resp:22018941

Ion Ratio Lower Upper

43 100

58 48.8 21.3 31.9#



#16

1,3-Butadiene

Concen: 34.425 ppbv

RT: 3.34 min Scan# 124

Delta R.T. -0.02 min

Lab File: VL033924.D

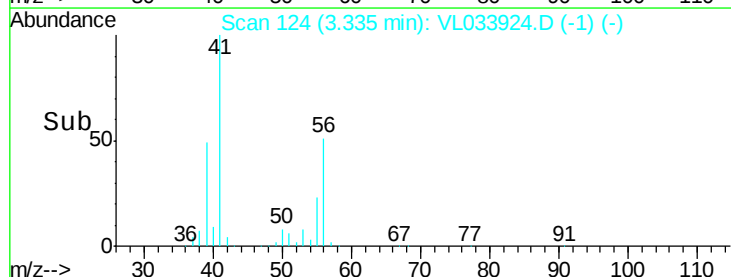
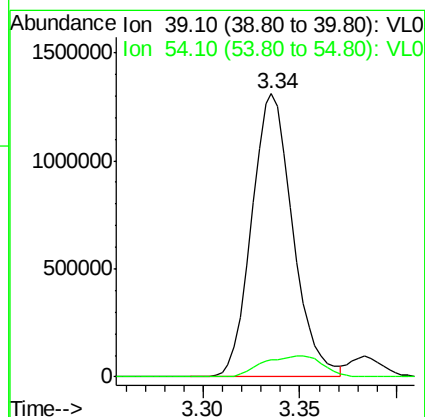
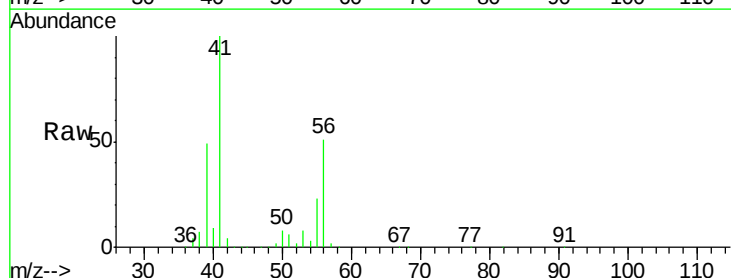
Acq: 14 Jun 2019 8:45

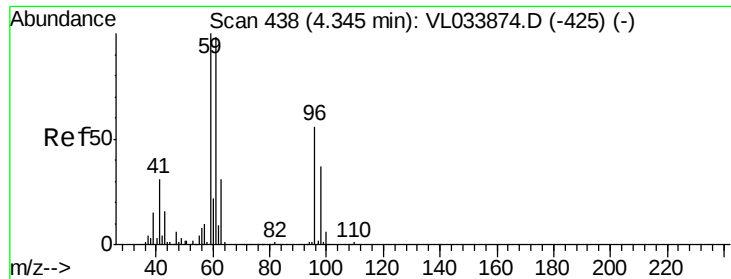
Tgt Ion: 39 Resp: 1936006

Ion Ratio Lower Upper

39 100

54 11.0 68.6 103.0#





#17

tert-Butyl alcohol

Concen: 7.277 ppbv

RT: 4.46 min Scan# 473

Delta R.T. 0.11 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

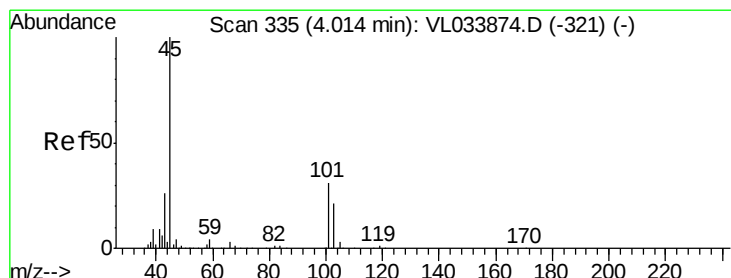
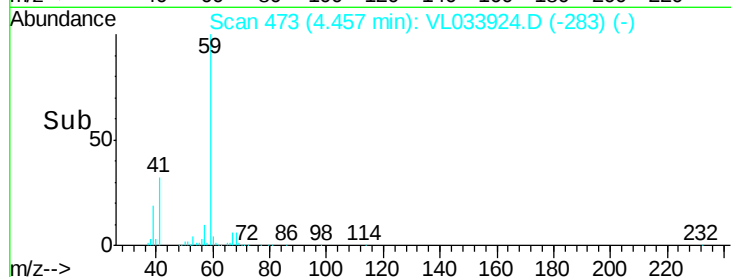
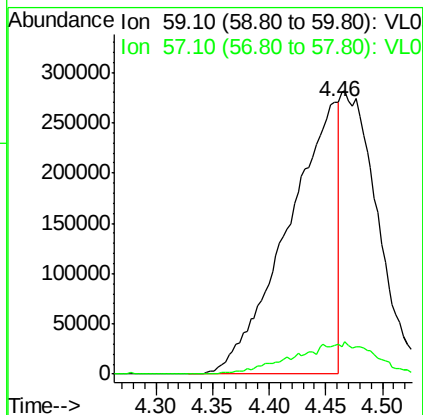
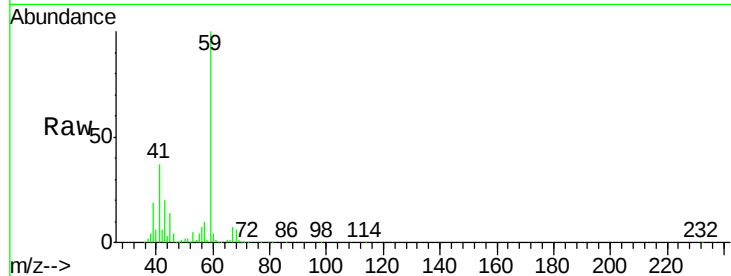
V2

Tgt Ion: 59 Resp: 840558

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 7.247 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.04 min

Lab File: VL033924.D

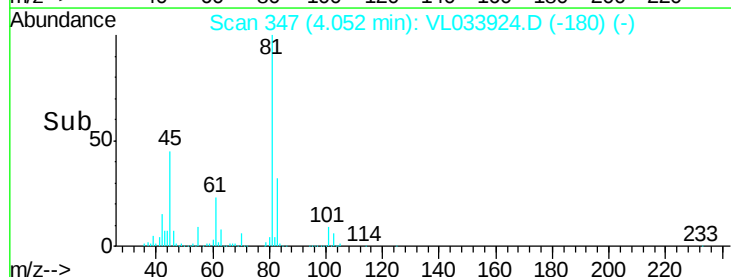
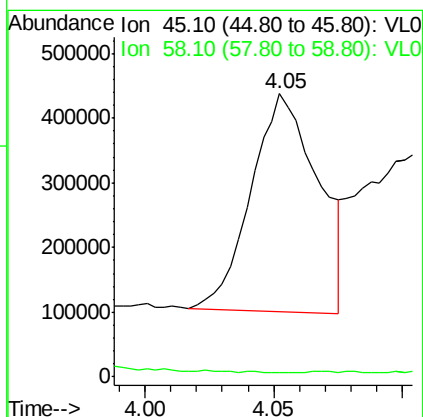
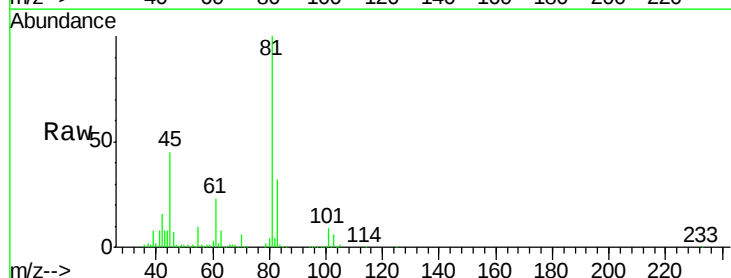
Acq: 14 Jun 2019 8:45

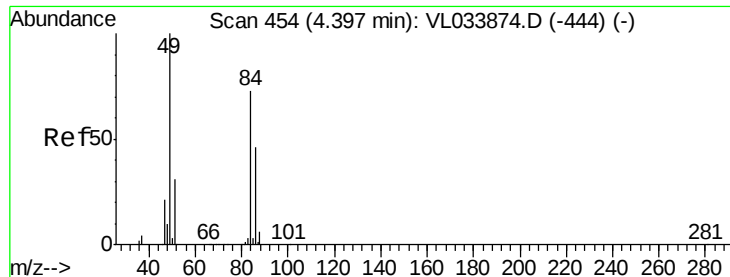
Tgt Ion: 45 Resp: 611701

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#

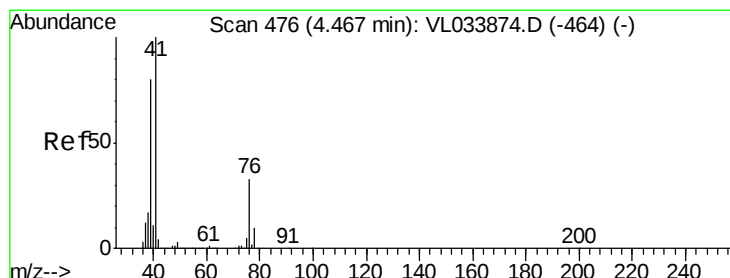
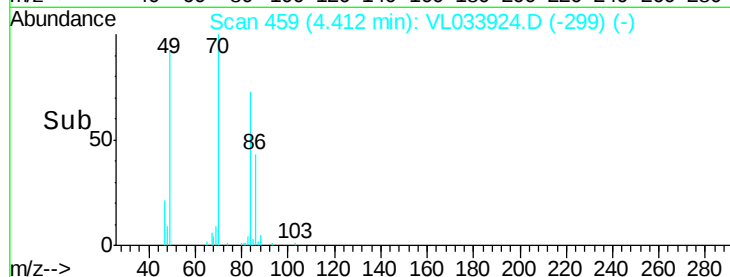
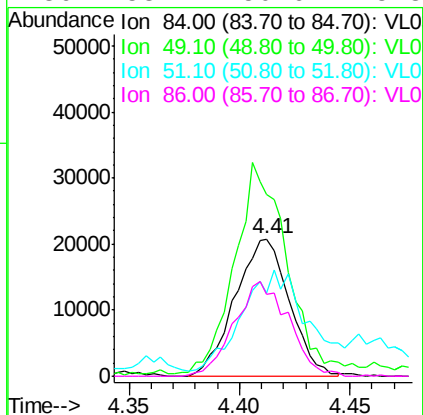
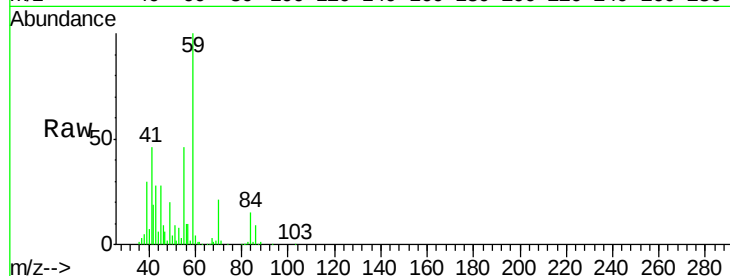




#20
Methylene Chloride
Concen: 0.617 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.02 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

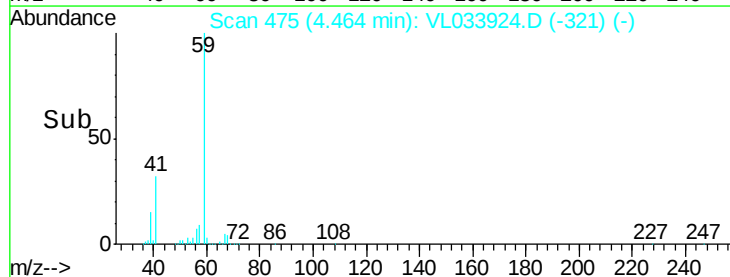
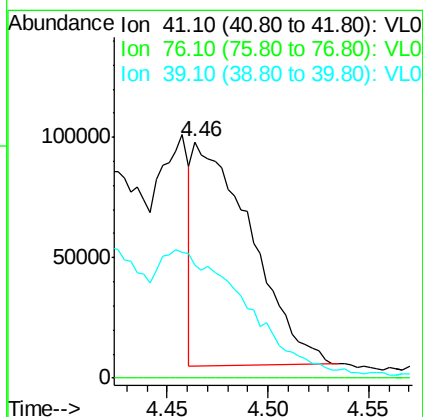
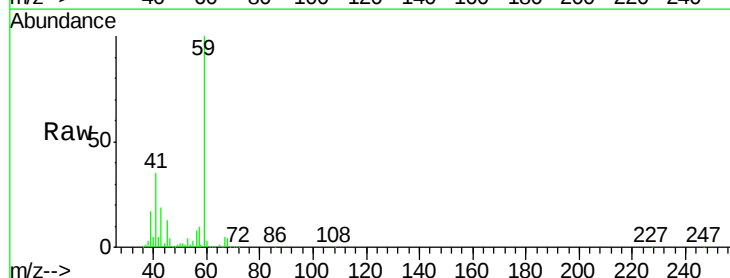
Instrument :
MSVOA_L
ClientSampleId :
V2

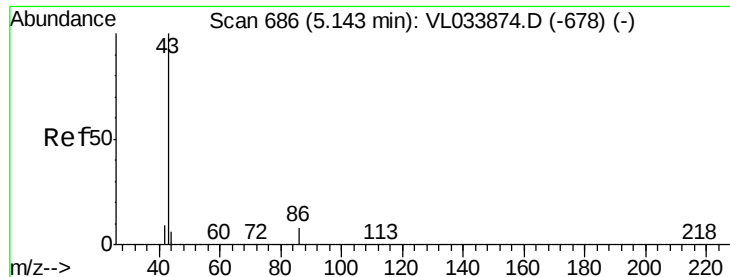
Tgt Ion: 84 Resp: 35537
Ion Ratio Lower Upper
84 100
49 129.6 110.0 165.0
51 54.8 34.6 51.8#
86 58.7 50.6 75.8



#21
Allyl Chloride
Concen: 2.206 ppbv
RT: 4.46 min Scan# 475
Delta R.T. -0.00 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

Tgt Ion: 41 Resp: 185119
Ion Ratio Lower Upper
41 100
76 0.0 26.6 39.8#
39 0.0 65.2 97.8#





#23

Vinyl Acetate

Concen: 2.617 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

Tgt Ion: 43 Resp: 449496

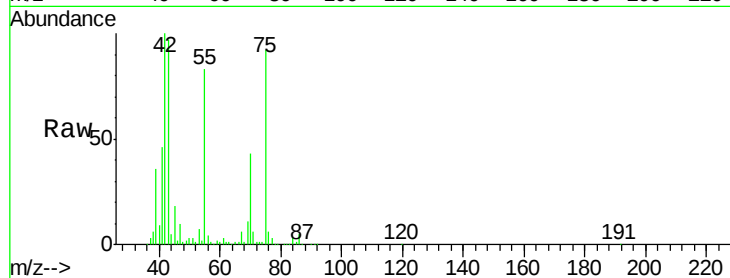
Ion Ratio Lower Upper

43 100

86 5.5 5.8 8.8#

42 104.9 7.8 11.8#

44 3.0 4.2 6.4#

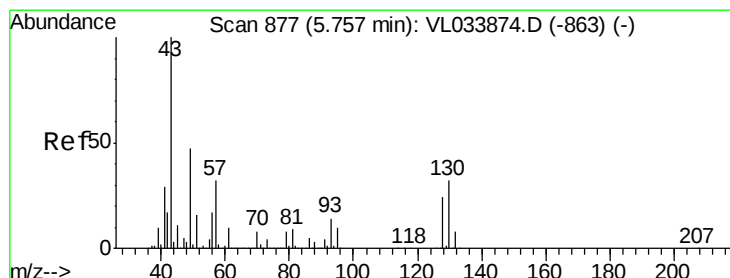
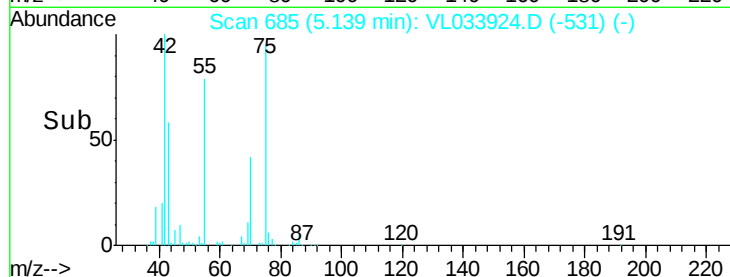
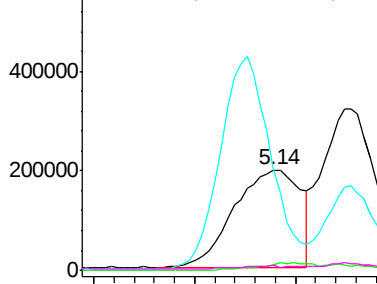


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 18.215 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Tgt Ion: 43 Resp: 4098771

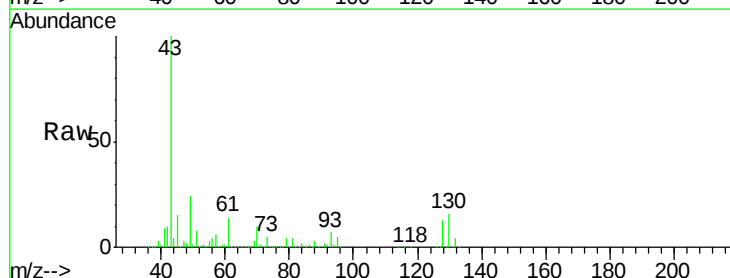
Ion Ratio Lower Upper

43 100

45 14.7 7.9 11.9#

61 13.0 7.8 11.6#

70 9.9 5.8 8.6#

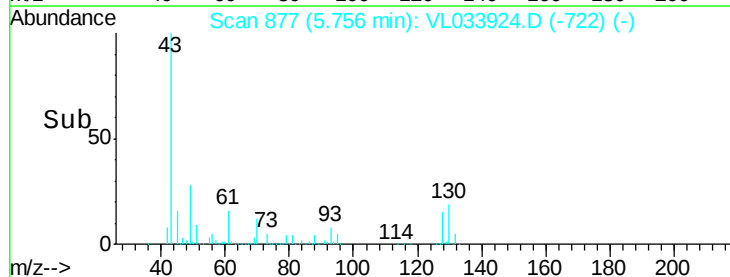
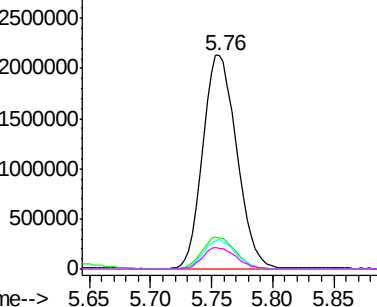


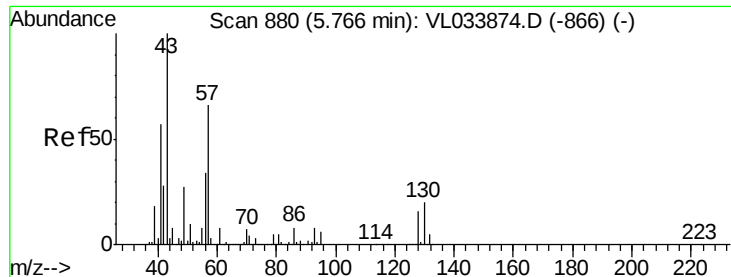
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

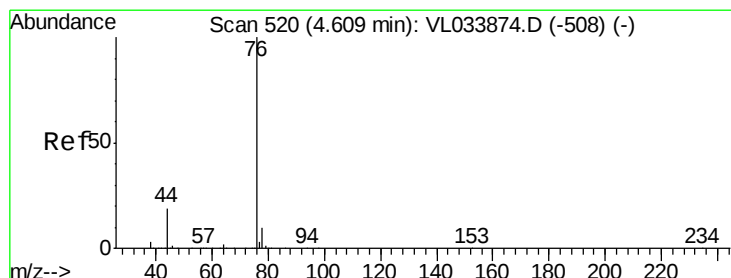
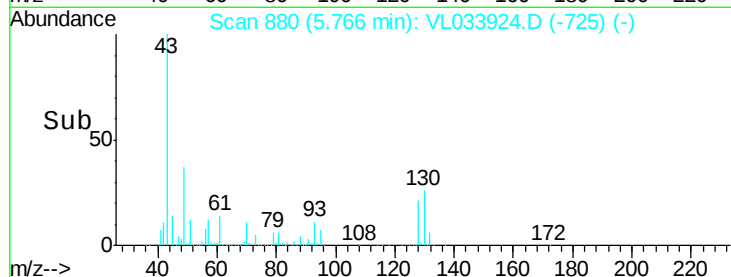
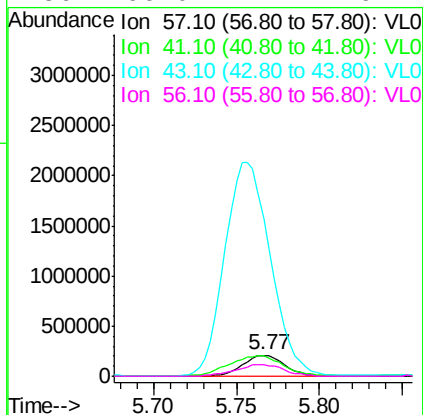
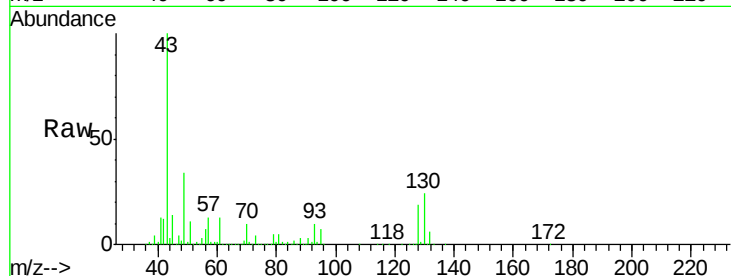




#26
Hexane
Concen: 3.518 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

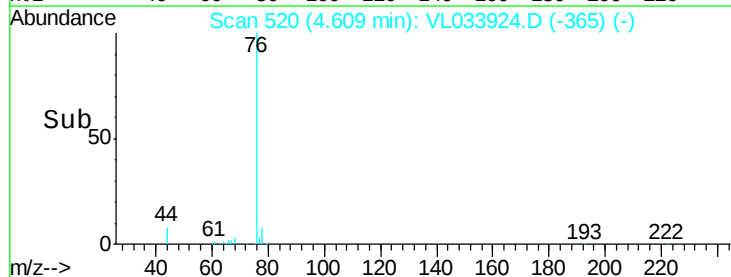
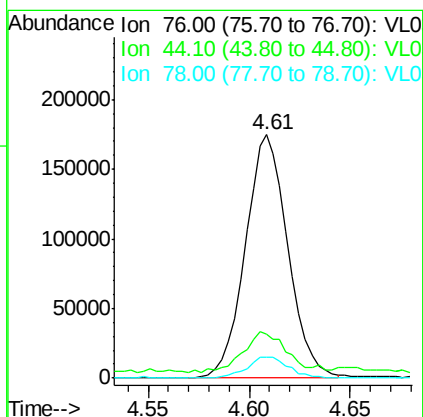
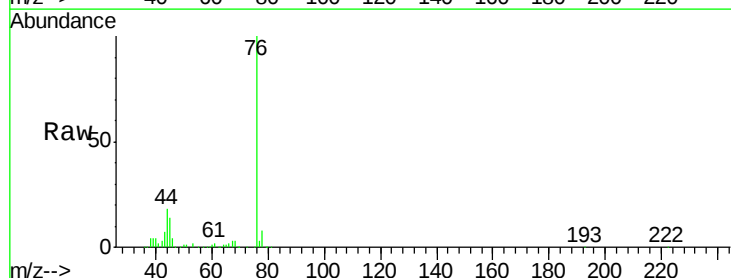
Instrument :
MSVOA_L
ClientSampled :
V2

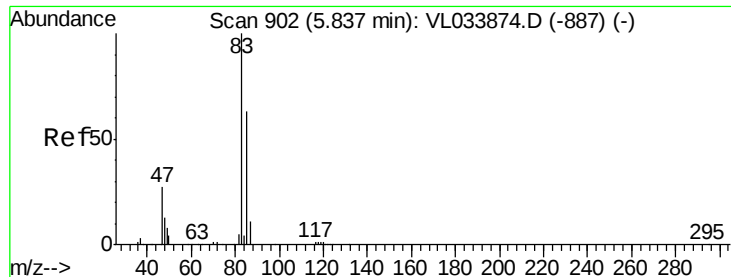
Tgt Ion: 57 Resp: 360376
Ion Ratio Lower Upper
57 100
41 130.1 71.4 107.2#
43 1137.4 183.7 275.5#
56 66.0 42.7 64.1#



#27
Carbon Disulfide
Concen: 1.810 ppbv
RT: 4.61 min Scan# 520
Delta R.T. -0.00 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

Tgt Ion: 76 Resp: 257660
Ion Ratio Lower Upper
76 100
44 19.8 14.4 21.6
78 8.7 7.5 11.3





#29

Chloroform

Concen: 0.129 ppbv

RT: 5.85 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

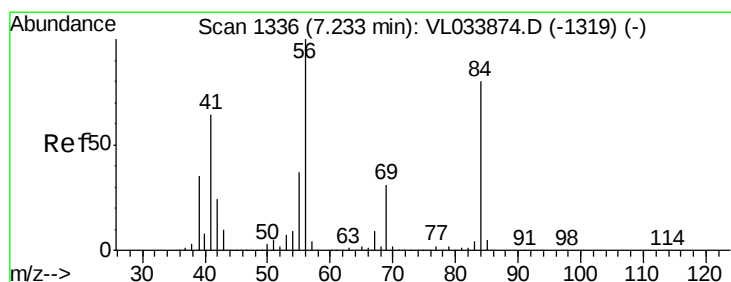
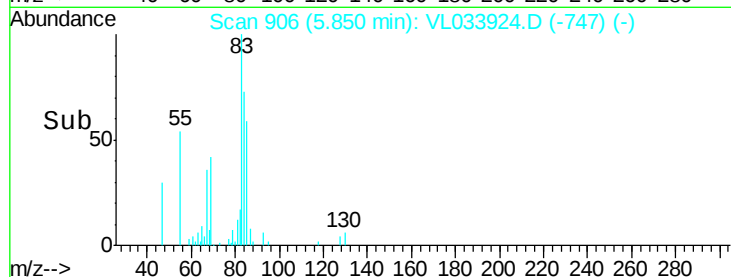
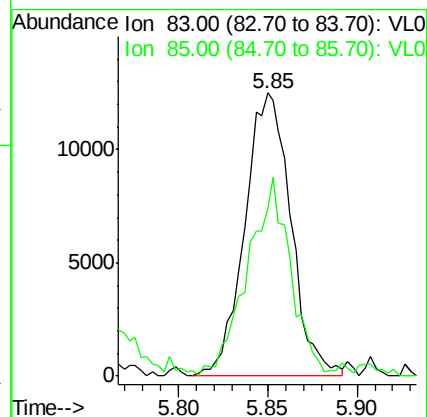
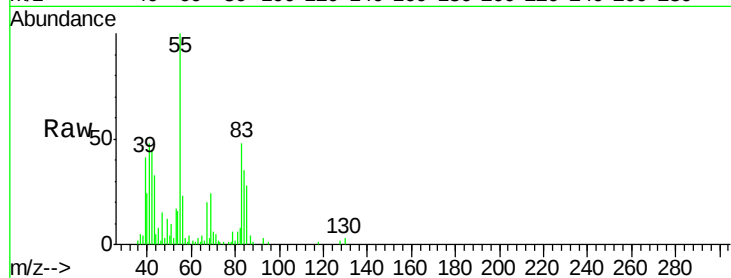
V2

Tgt Ion: 83 Resp: 22568

Ion Ratio Lower Upper

83 100

85 57.4 50.5 75.7



#30

Cyclohexane

Concen: 2.661 ppbv

RT: 7.23 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

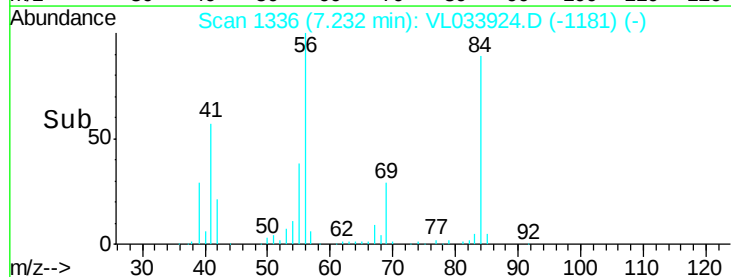
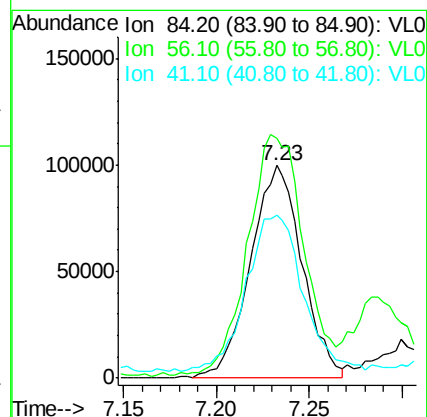
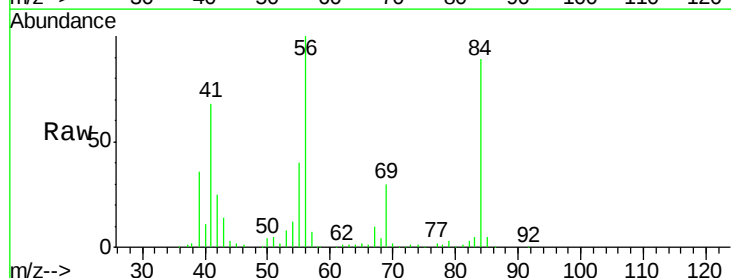
Tgt Ion: 84 Resp: 192653

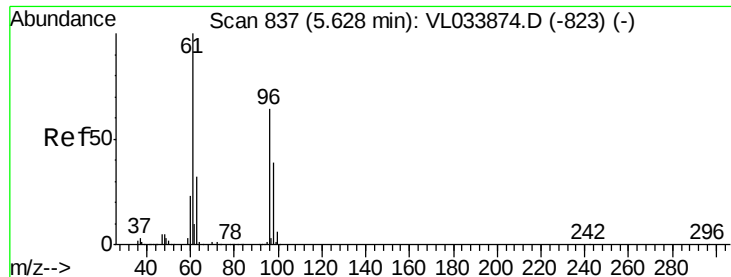
Ion Ratio Lower Upper

84 100

56 126.1 105.8 158.8

41 81.8 65.7 98.5



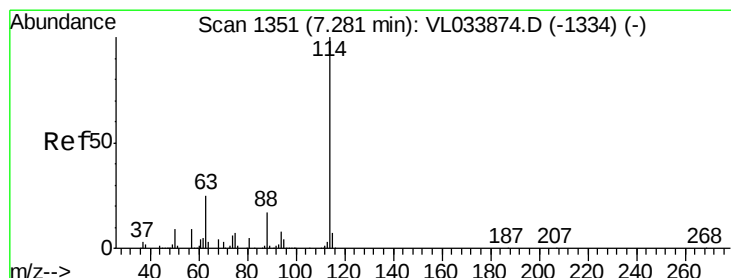
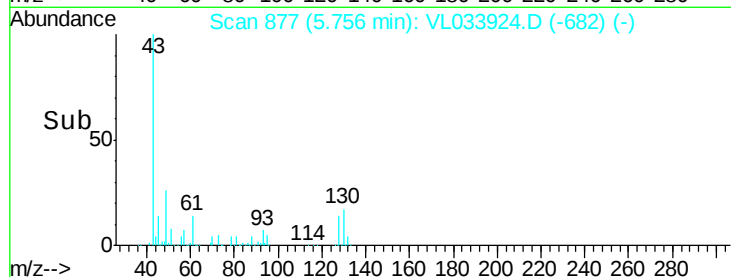
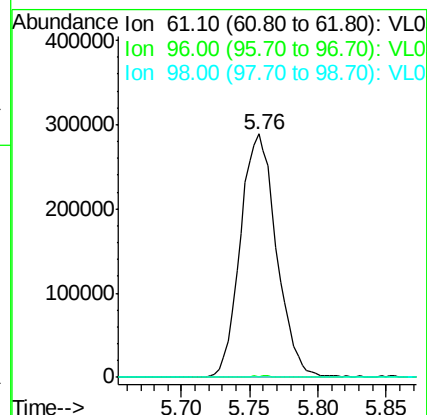
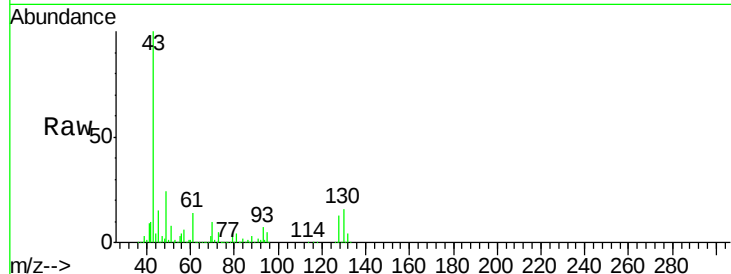


#31

cis-1,2-Dichloroethene
 Concen: 5.910 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. 0.13 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 V2

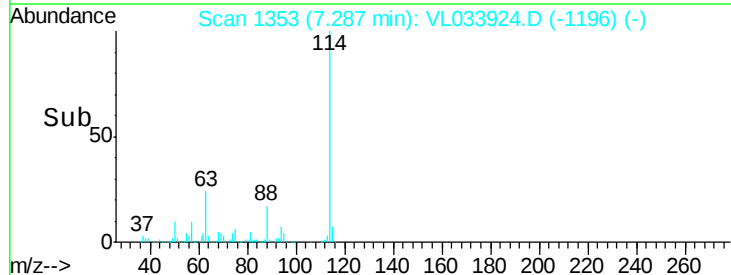
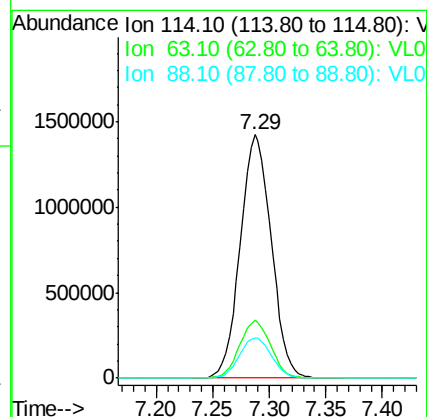
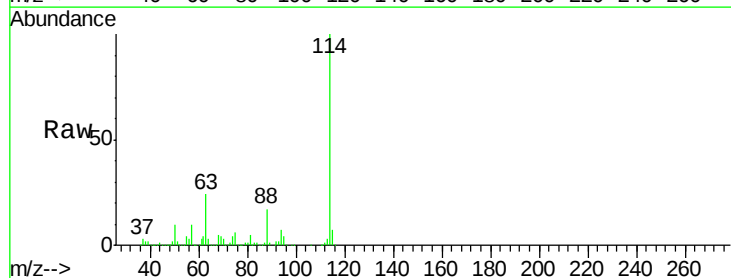
Tgt Ion	Ratio	Lower	Upper
61	100		
96	0.4	50.9	76.3#
98	0.0	31.4	47.2#

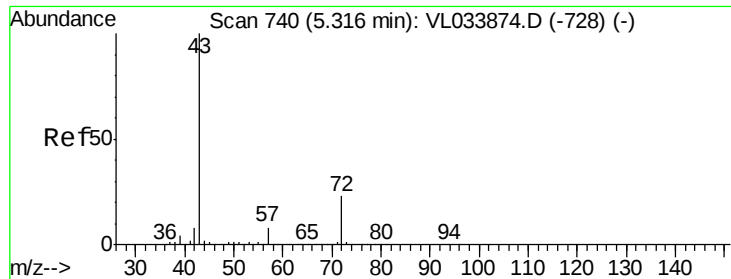


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. 0.01 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.1	21.1	31.7
88	17.2	14.2	21.4

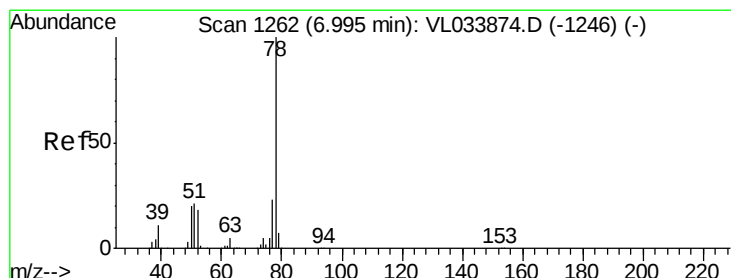
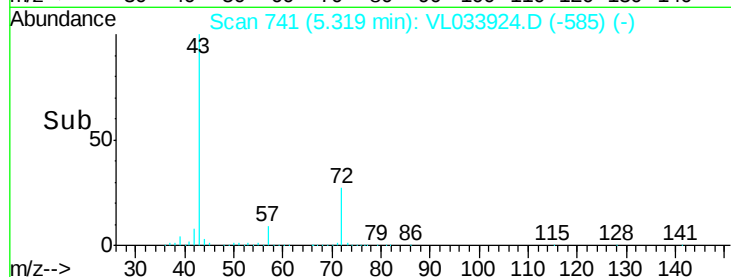
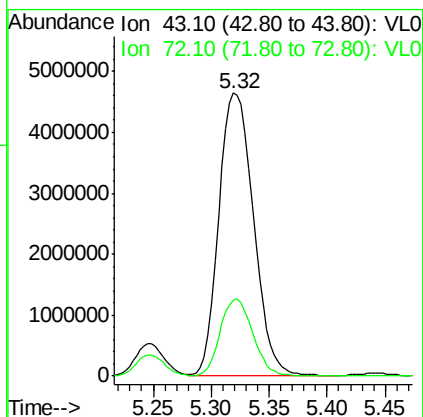
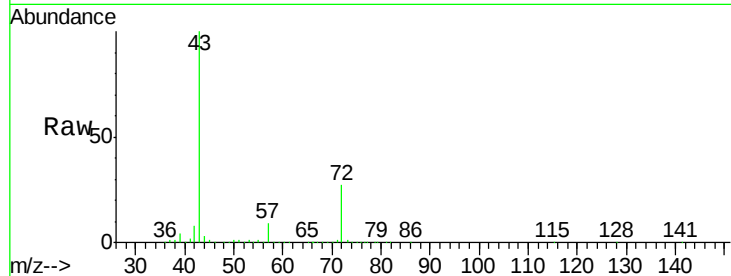




#34
2-Butanone
Concen: 62.897 ppbv
RT: 5.32 min Scan# 741
Delta R.T. 0.00 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

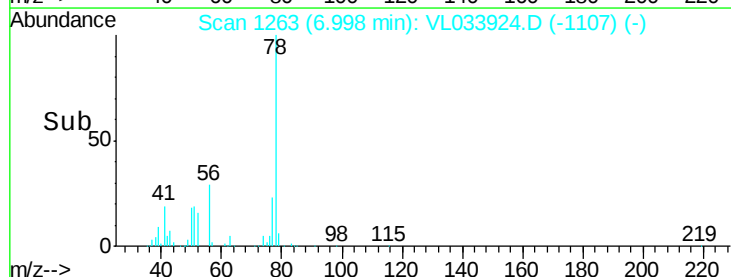
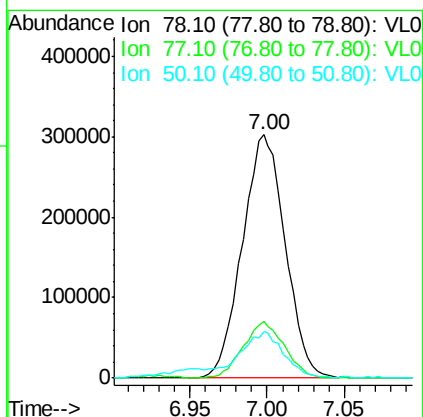
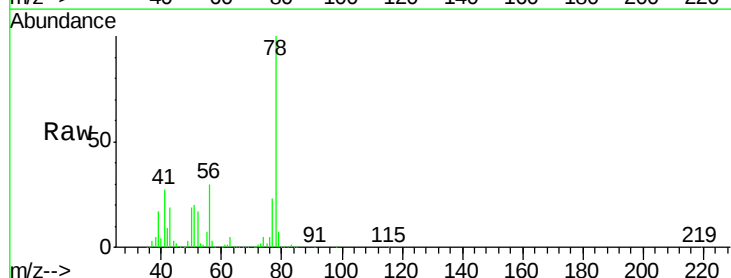
Instrument :
MSVOA_L
ClientSampleId :
V2

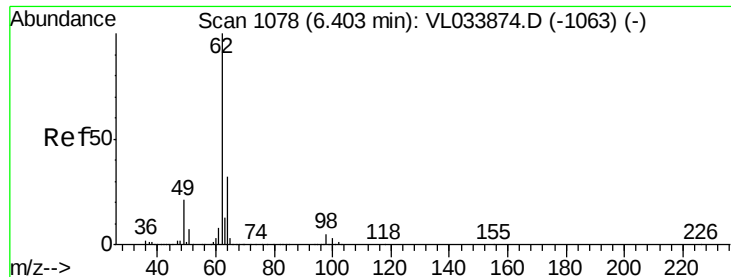
Tgt Ion: 43 Resp: 9645431
Ion Ratio Lower Upper
43 100
72 25.6 17.9 26.9



#36
Benzene
Concen: 2.799 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

Tgt Ion: 78 Resp: 581206
Ion Ratio Lower Upper
78 100
77 23.4 18.2 27.2
50 18.7 15.9 23.9





#37

1,2-Dichloroethane

Concen: 0.130 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

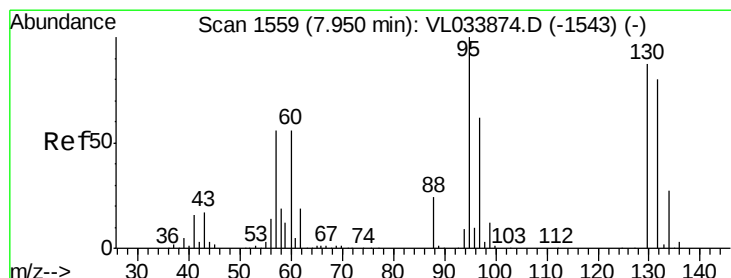
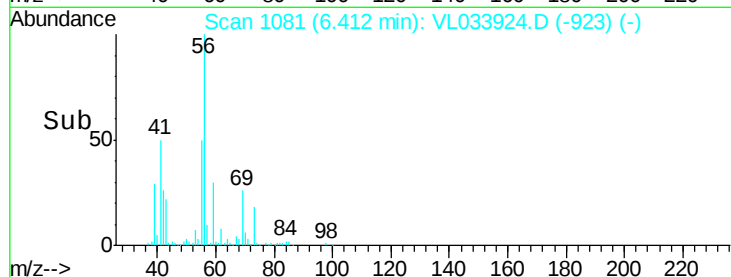
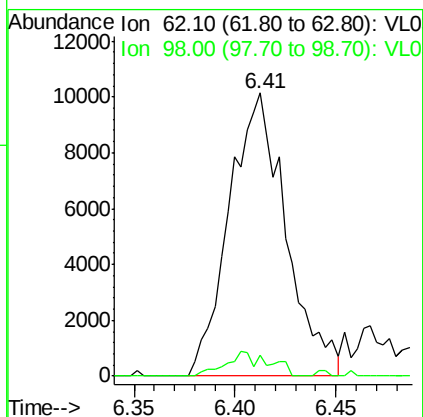
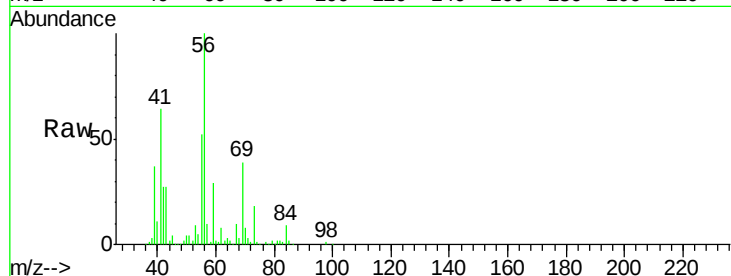
V2

Tgt Ion: 62 Resp: 19996

Ion Ratio Lower Upper

62 100

98 6.4 4.0 6.0#



#38

Trichloroethene

Concen: 0.369 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Tgt Ion: 130 Resp: 29846

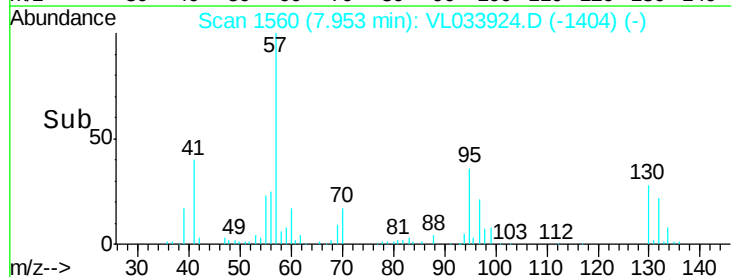
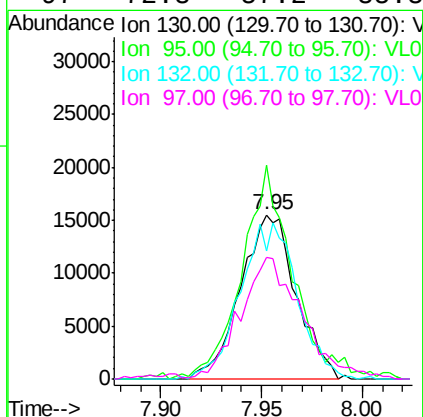
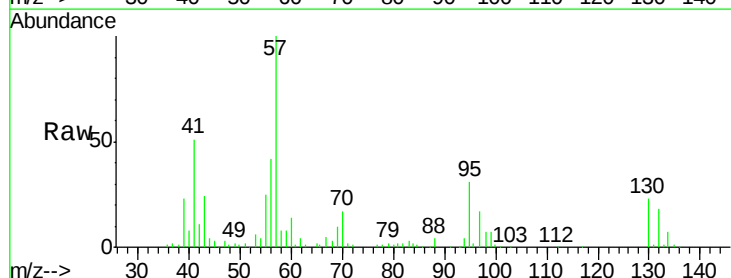
Ion Ratio Lower Upper

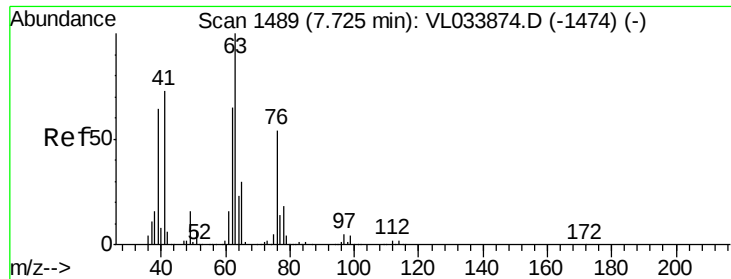
130 100

95 138.6 92.0 138.0#

132 77.8 73.8 110.8

97 72.8 57.2 85.8

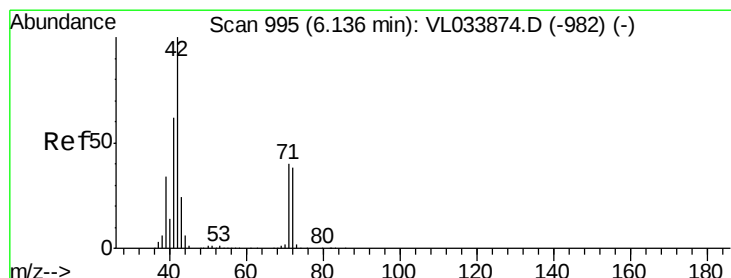
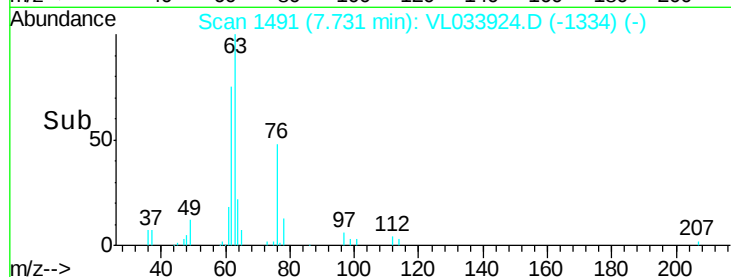
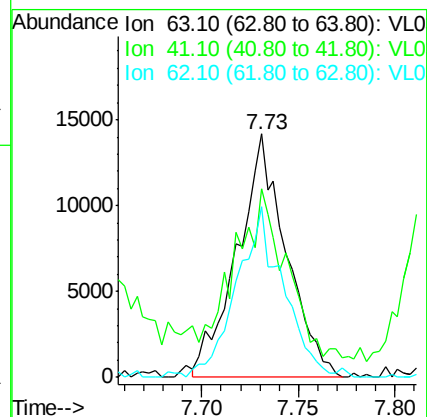
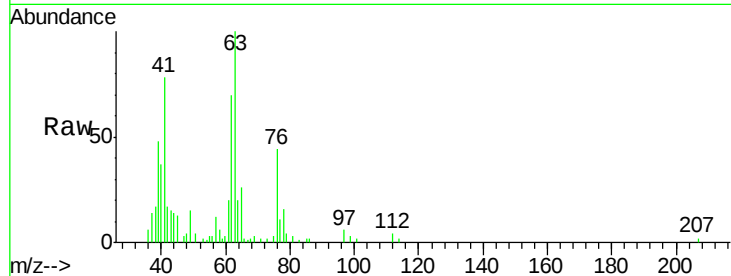




#39
 1,2-Dichloropropane
 Concen: 0.312 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. 0.01 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

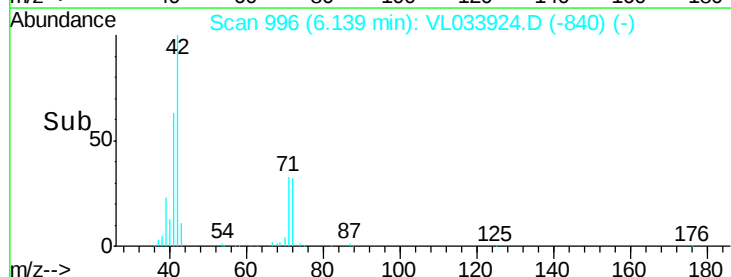
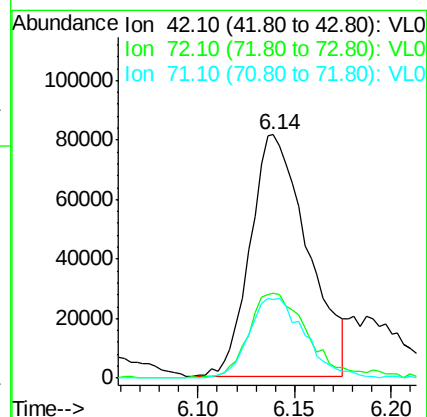
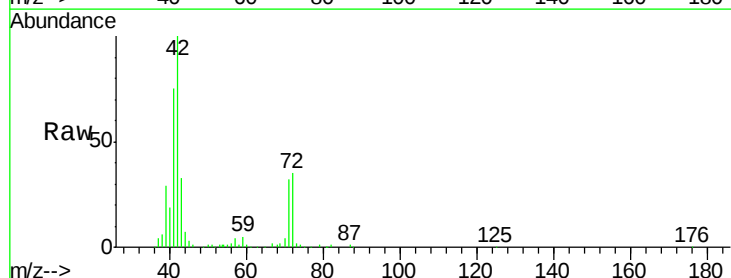
Instrument :
 MSVOA_L
 ClientSampleId :
 V2

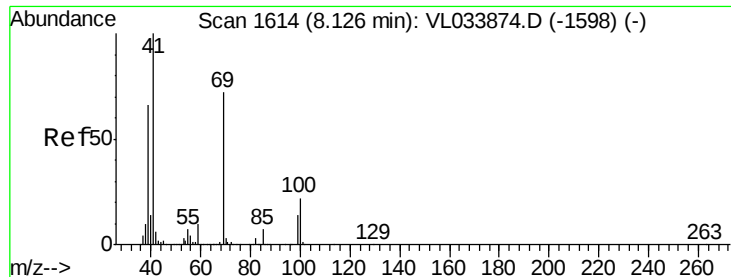
Tgt Ion: 63 Resp: 24981
 Ion Ratio Lower Upper
 63 100
 41 69.6 58.7 88.1
 62 66.8 51.9 77.9



#41
 Tetrahydrofuran
 Concen: 2.155 ppbv
 RT: 6.14 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Tgt Ion: 42 Resp: 167760
 Ion Ratio Lower Upper
 42 100
 72 37.7 32.2 48.4
 71 32.6 31.7 47.5

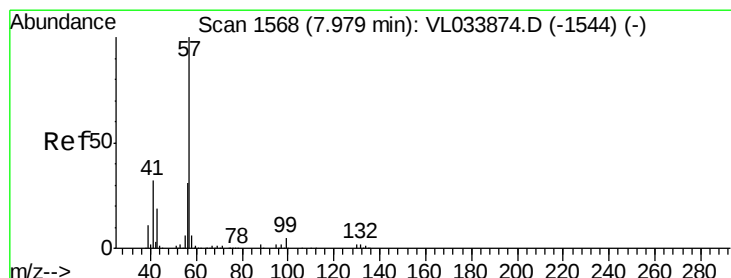
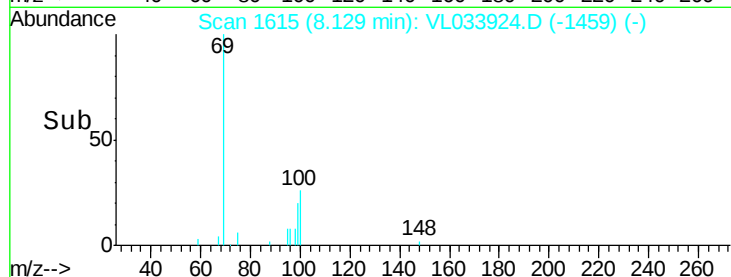
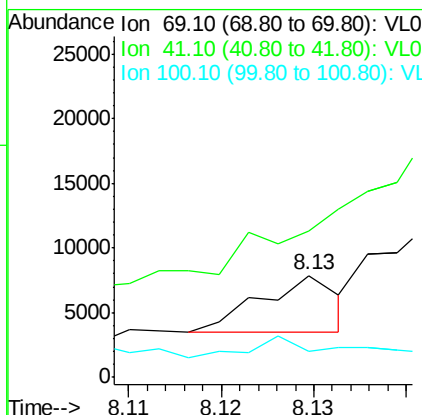
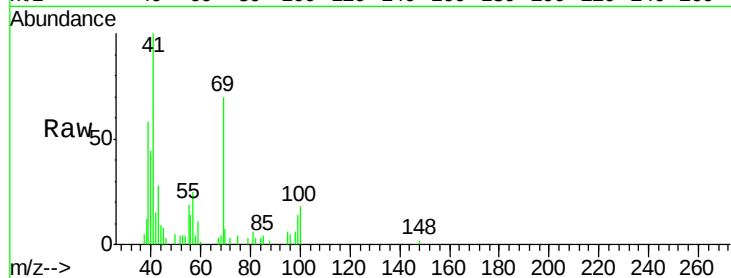




#43
Methyl Methacrylate
Concen: 0.033 ppbv
RT: 8.13 min Scan# 1615
Delta R.T. 0.00 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

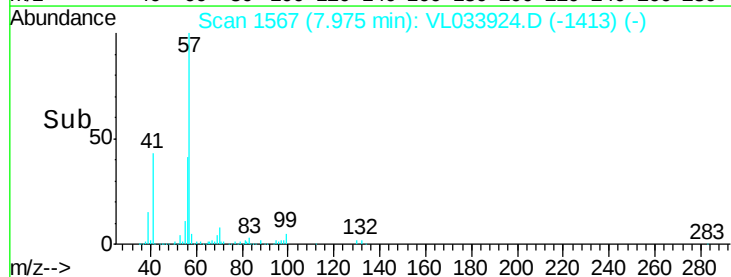
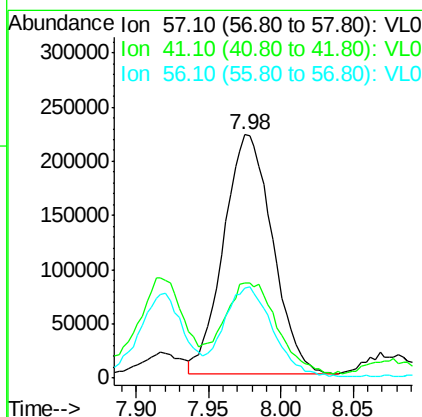
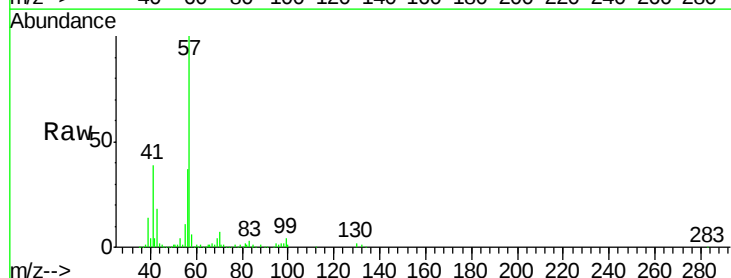
Instrument :
MSVOA_L
ClientSampled :
V2

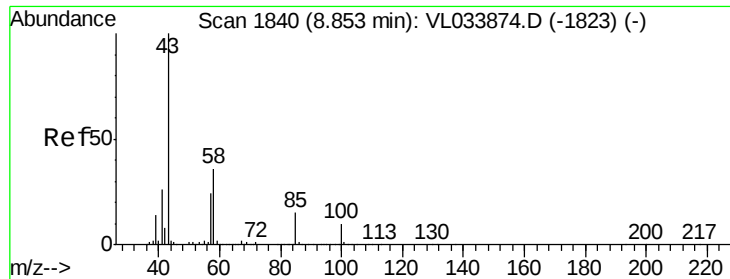
Tgt Ion: 69 Resp: 2576
Ion Ratio Lower Upper
69 100
41 0.0 114.3 171.5#
100 202.6 24.8 37.2#



#44
2,2,4-Trimethylpentane
Concen: 1.404 ppbv
RT: 7.98 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VL033924.D
Acq: 14 Jun 2019 8:45

Tgt Ion: 57 Resp: 518378
Ion Ratio Lower Upper
57 100
41 41.2 26.1 39.1#
56 36.9 24.6 36.8#

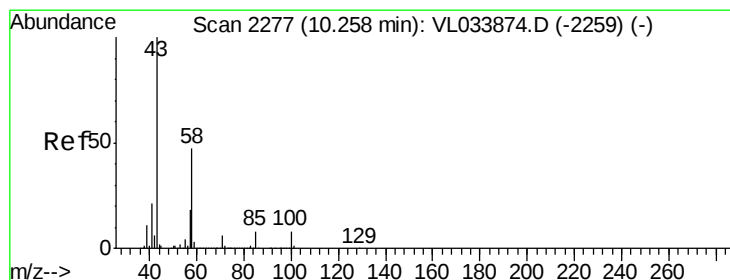
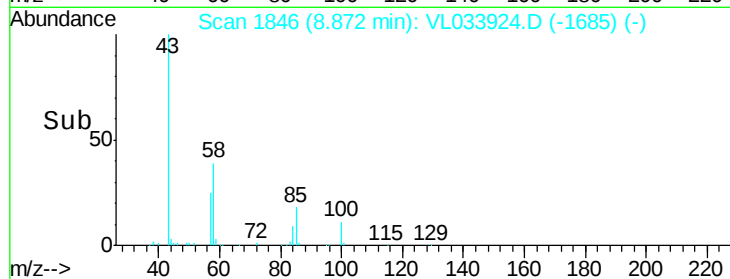
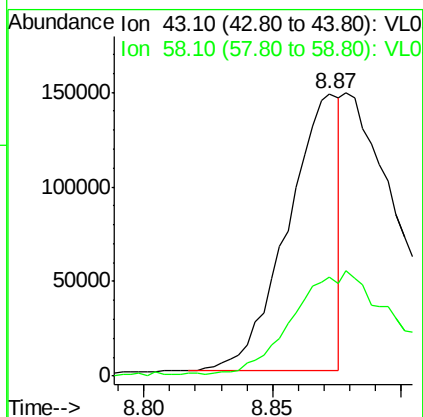
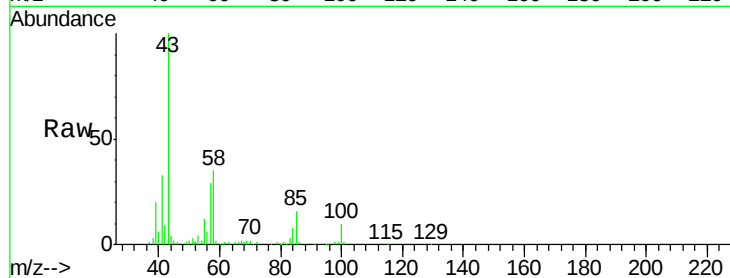




#50
 4-Methyl-2-Pentanone
 Concen: 0.891 ppbv
 RT: 8.87 min Scan# 1846
 Delta R.T. 0.02 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

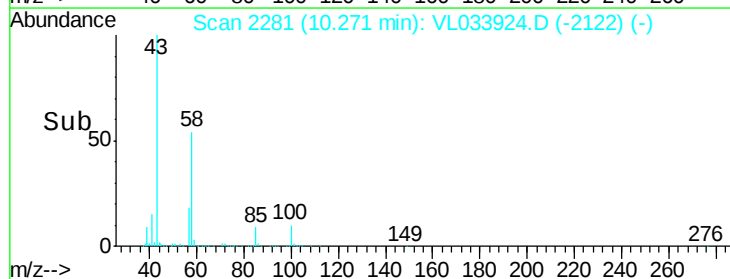
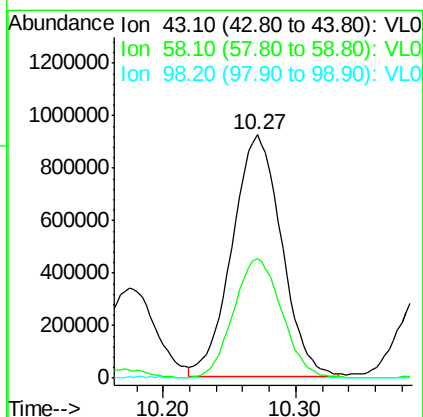
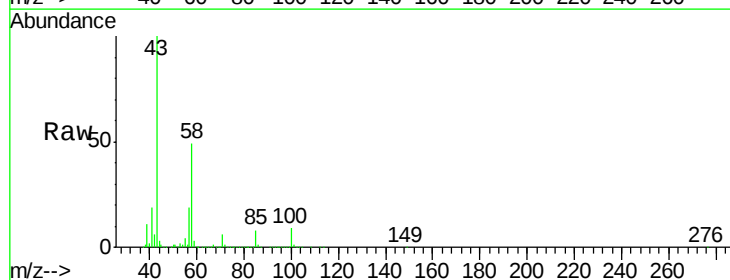
Instrument :
 MSVOA_L
 ClientSampleId :
 V2

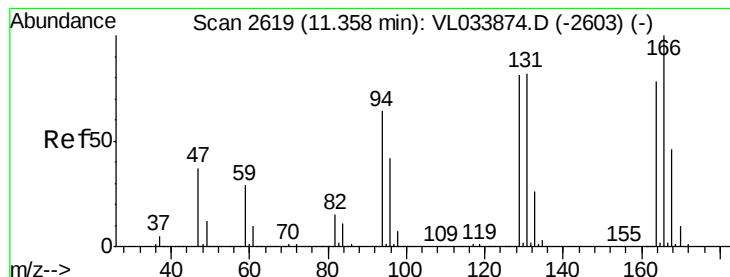
Tgt Ion: 43 Resp: 203758
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.6 42.8#



#51
 2-Hexanone
 Concen: 13.410 ppbv
 RT: 10.27 min Scan# 2281
 Delta R.T. 0.01 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Tgt Ion: 43 Resp: 2394697
 Ion Ratio Lower Upper
 43 100
 58 48.2 38.2 57.4
 98 0.4 0.2 0.2#





#52

Tetrachloroethene

Concen: 19.391 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. 0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

Tgt Ion:164 Resp: 1416779

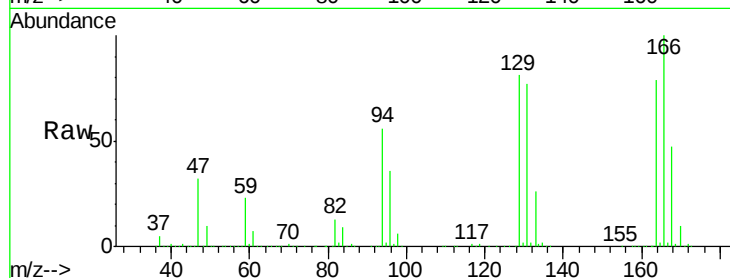
Ion Ratio Lower Upper

164 100

166 125.9 103.1 154.7

129 102.1 83.9 125.9

131 97.1 85.1 127.7

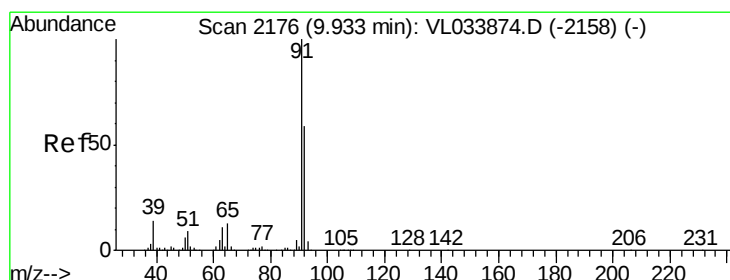
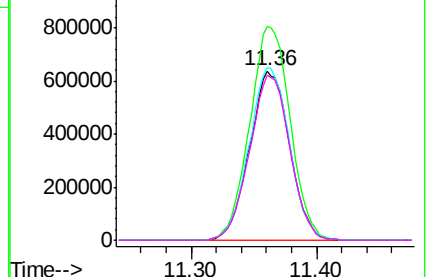
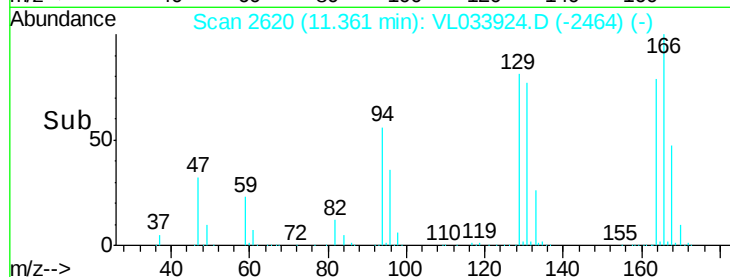


Abundance Ion 163.90 (163.60 to 164.60): V

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: 72.667 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL033924.D

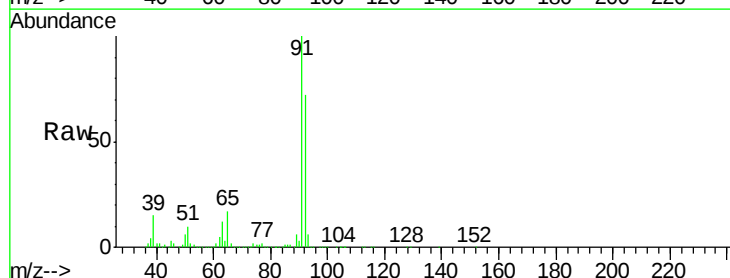
Acq: 14 Jun 2019 8:45

Tgt Ion: 91 Resp:16697870

Ion Ratio Lower Upper

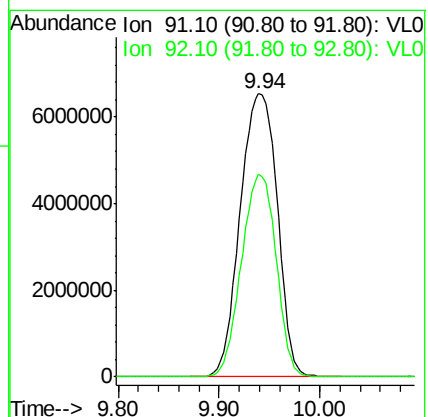
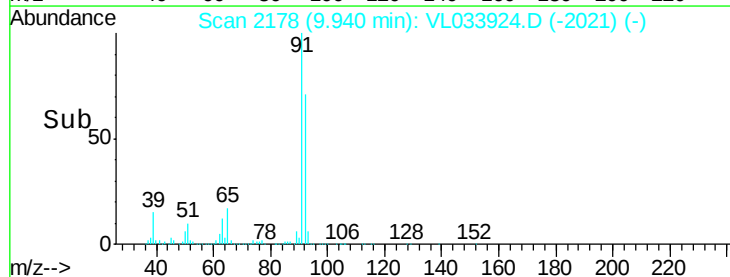
91 100

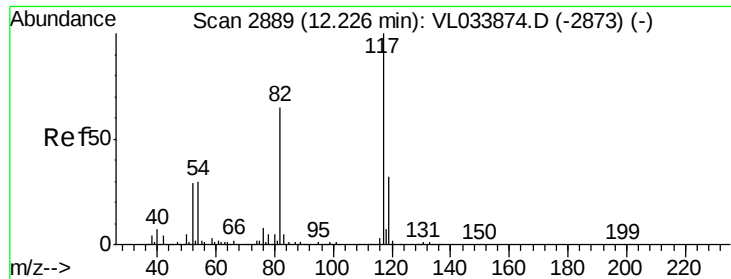
92 66.9 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

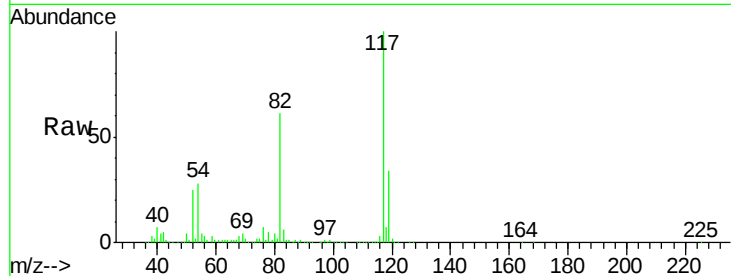
Tgt Ion: 117 Resp: 2852186

Ion Ratio Lower Upper

117 100

82 62.8 50.2 75.2

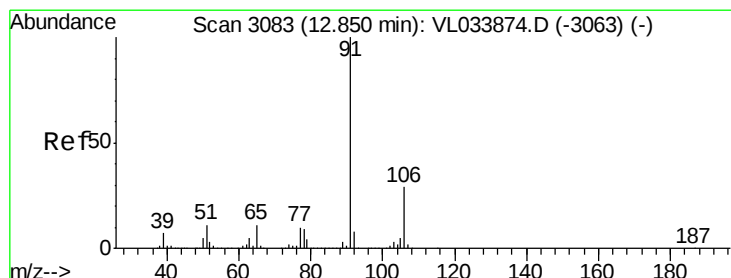
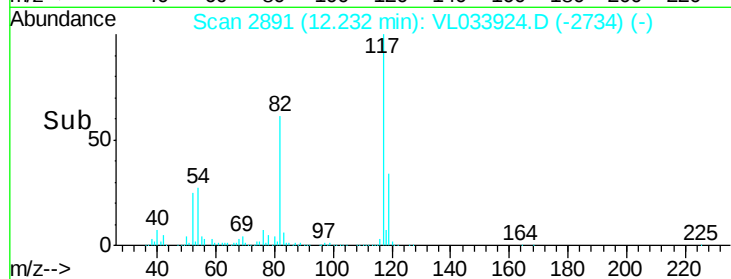
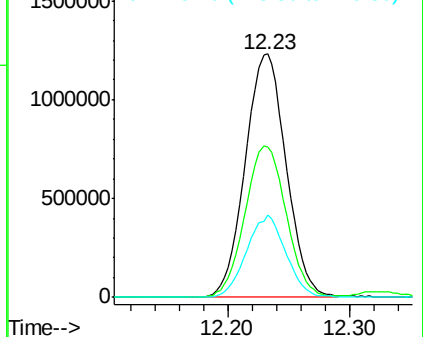
119 32.6 24.8 37.2



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 4.170 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. 0.01 min

Lab File: VL033924.D

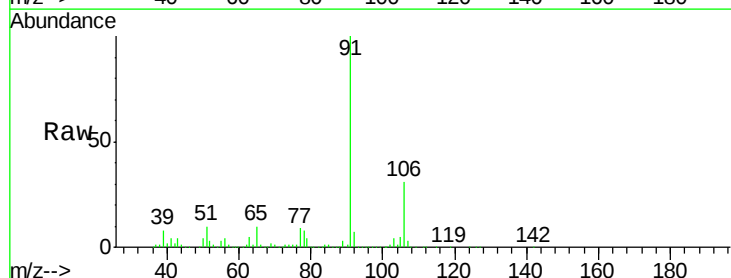
Acq: 14 Jun 2019 8:45

Tgt Ion: 91 Resp: 1341012

Ion Ratio Lower Upper

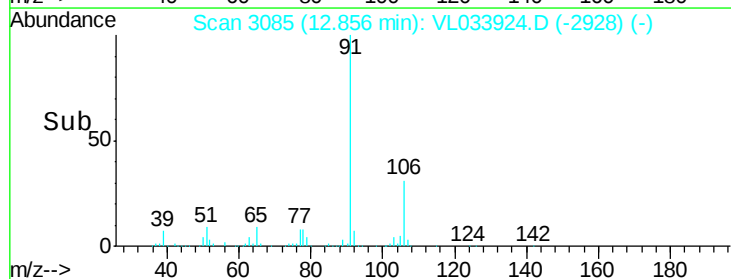
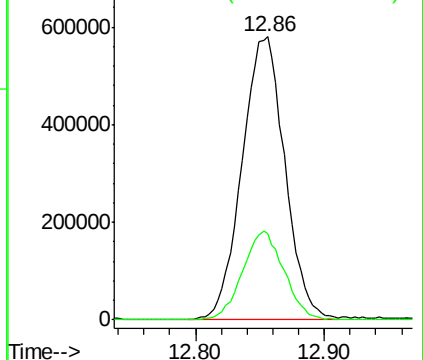
91 100

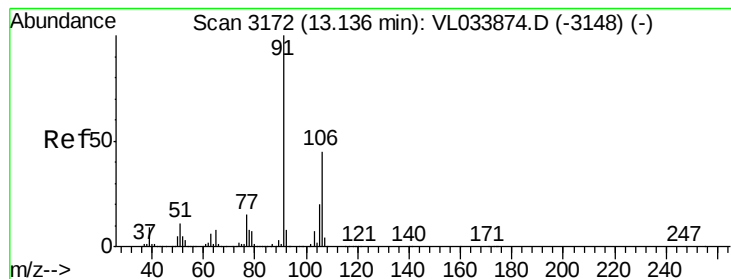
106 30.5 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 12.846 ppbv

RT: 13.11 min Scan# 3164

Delta R.T. -0.03 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

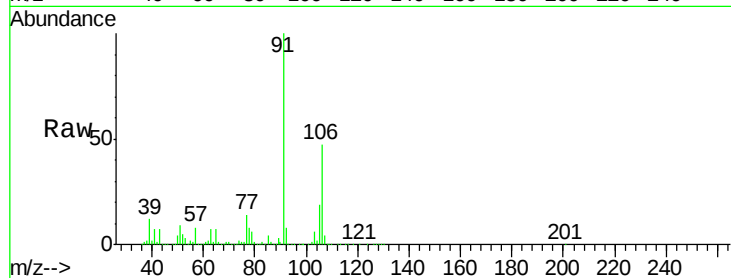
V2

Tgt Ion: 91 Resp: 3756459

Ion Ratio Lower Upper

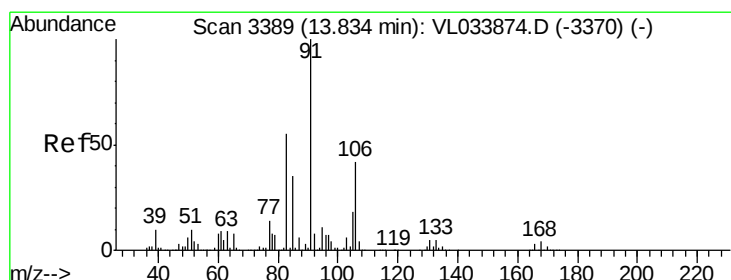
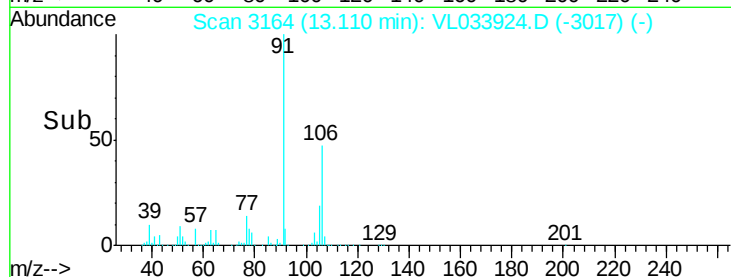
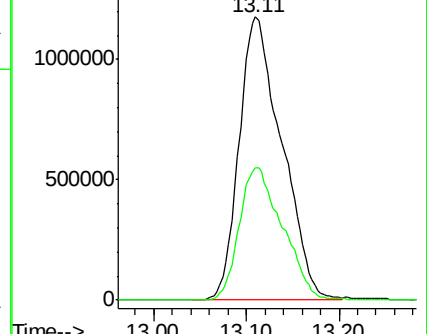
91 100

106 47.8 35.8 53.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 5.214 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VL033924.D

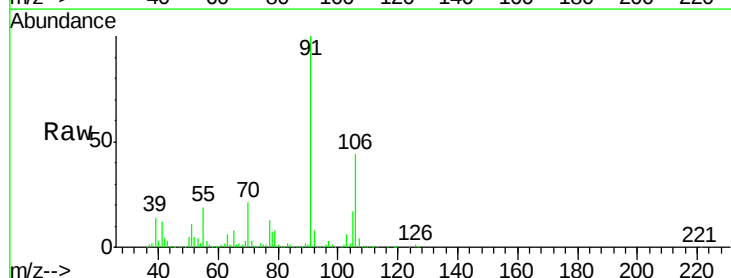
Acq: 14 Jun 2019 8:45

Tgt Ion: 91 Resp: 1574127

Ion Ratio Lower Upper

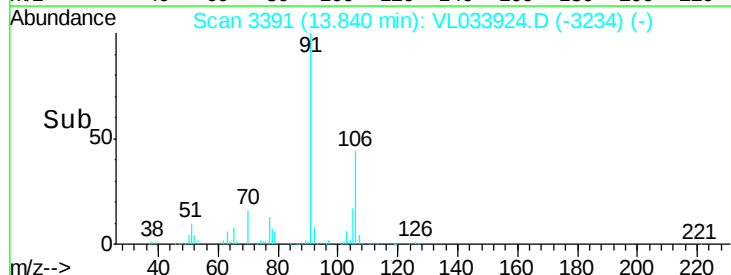
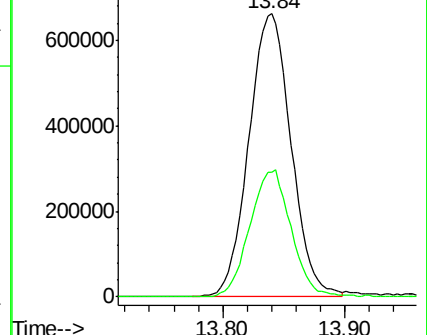
91 100

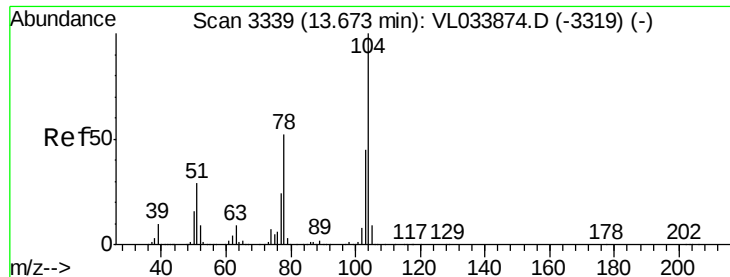
106 44.8 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Styrene

Concen: 2.167 ppbv

RT: 13.68 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

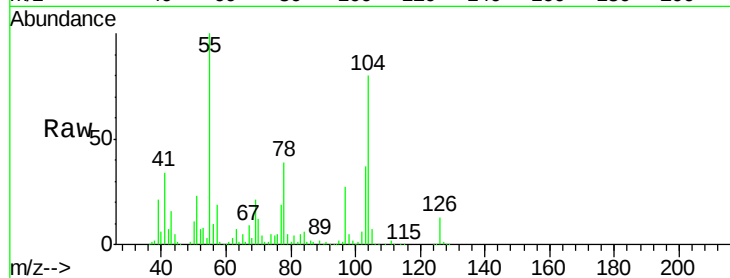
Tgt Ion:104 Resp: 423381

Ion Ratio Lower Upper

104 100

78 51.1 43.4 65.0

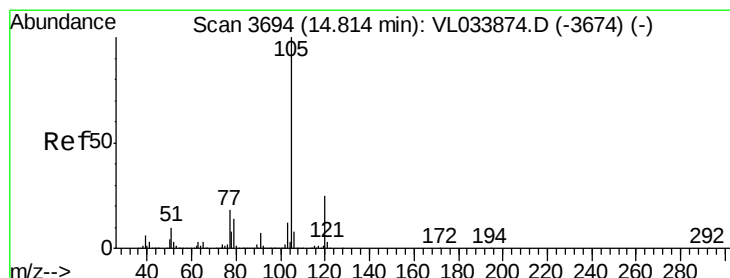
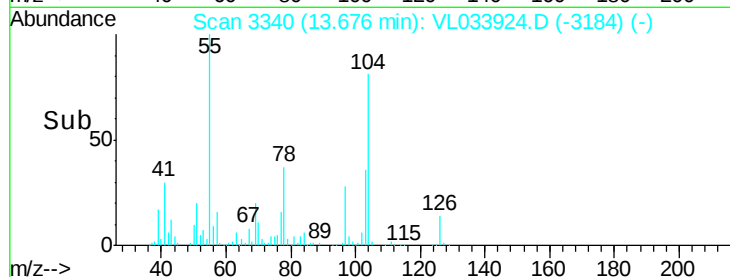
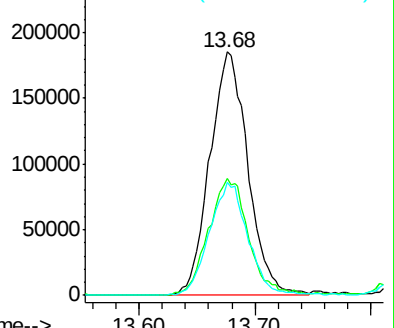
103 47.0 37.6 56.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.283 ppbv

RT: 14.81 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VL033924.D

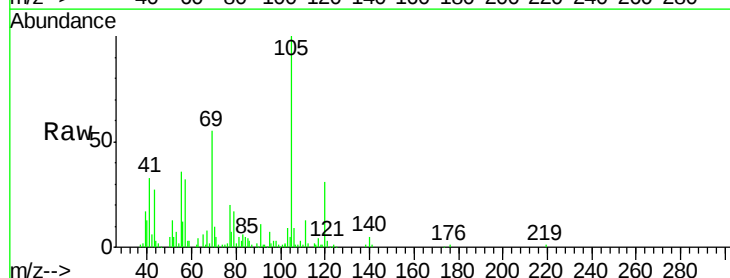
Acq: 14 Jun 2019 8:45

Tgt Ion:105 Resp: 115268

Ion Ratio Lower Upper

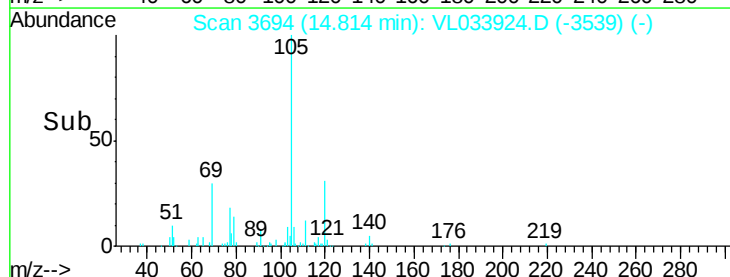
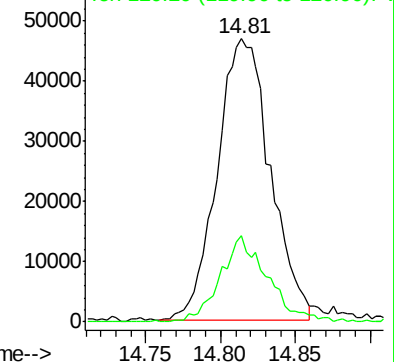
105 100

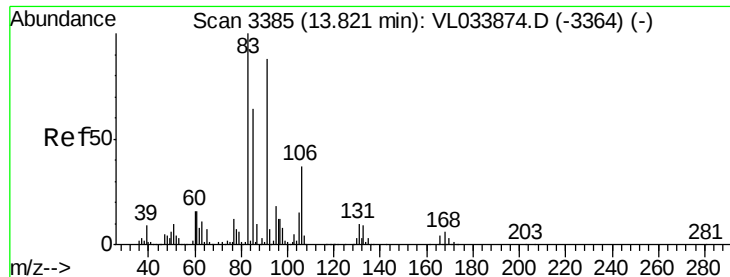
120 27.3 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.073 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

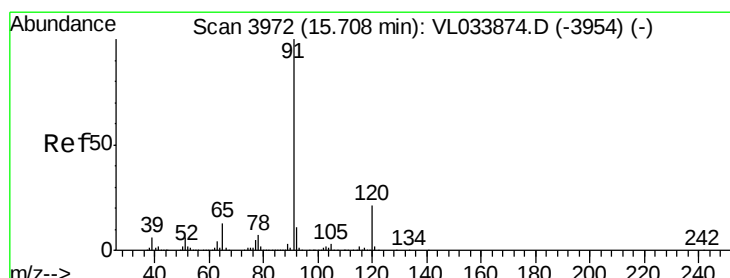
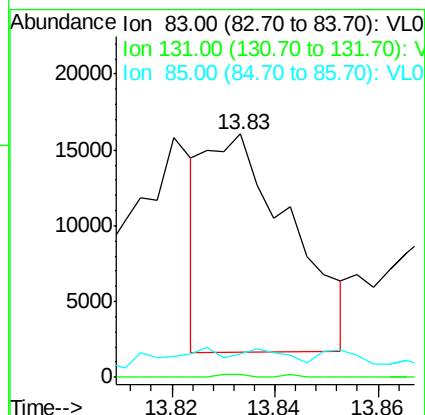
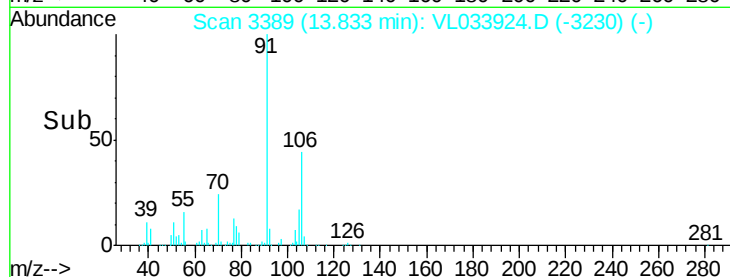
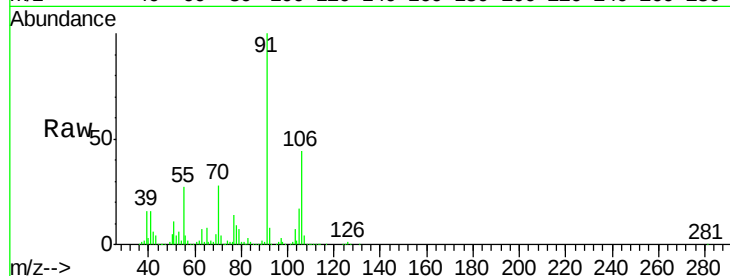
Tgt Ion: 83 Resp: 16639

Ion Ratio Lower Upper

83 100

131 0.6 4.8 14.4#

85 0.0 32.1 96.3#



#64

n-propylbenzene

Concen: 1.162 ppbv

RT: 15.71 min Scan# 3974

Delta R.T. 0.01 min

Lab File: VL033924.D

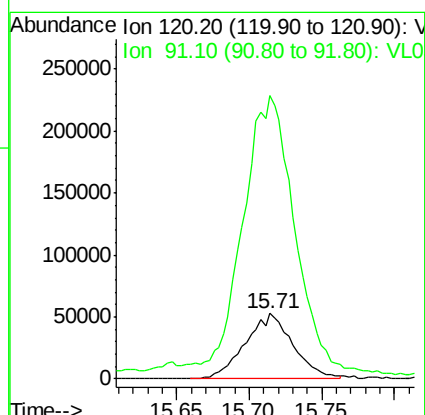
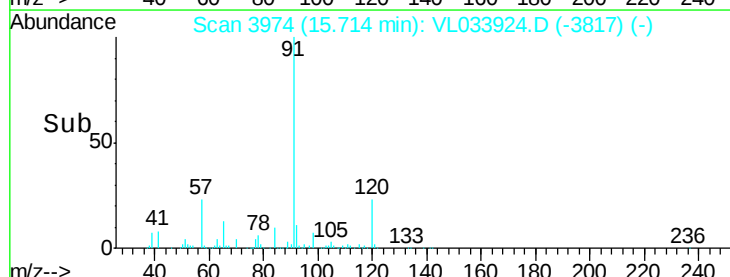
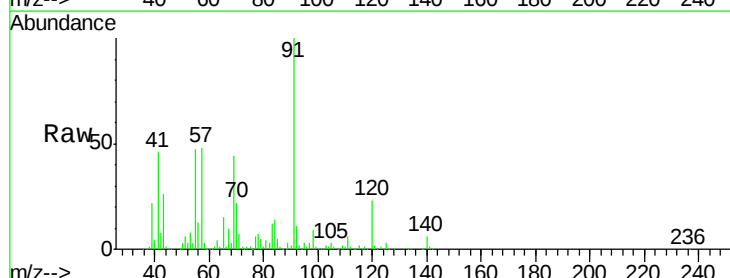
Acq: 14 Jun 2019 8:45

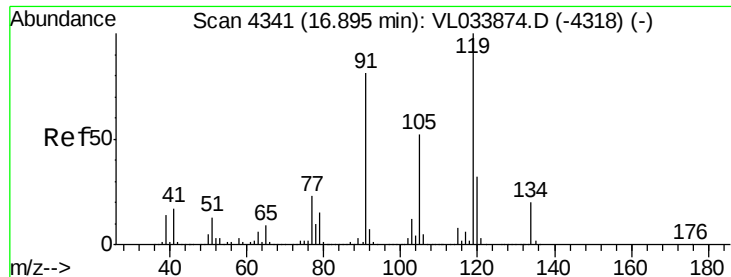
Tgt Ion: 120 Resp: 121080

Ion Ratio Lower Upper

120 100

91 508.9 387.0 580.6





#65

tert-Butylbenzene

Concen: 0.669 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.03 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

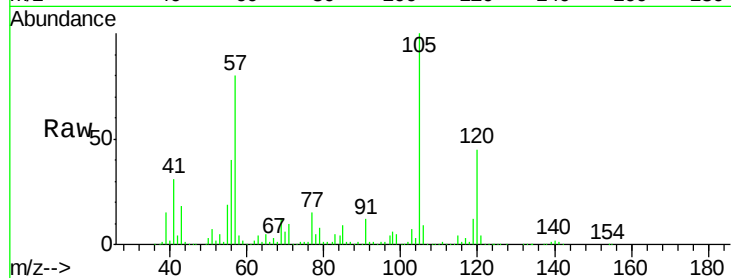
Tgt Ion:119 Resp: 251959

Ion Ratio Lower Upper

119 100

91 106.5 66.6 100.0#

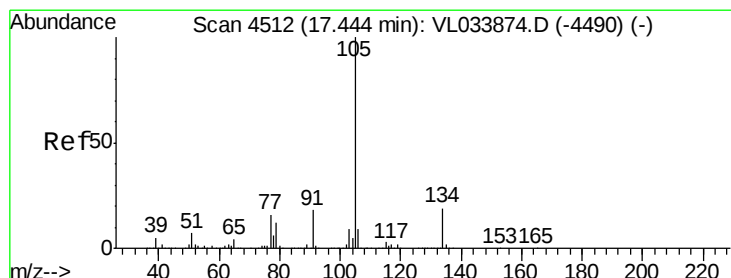
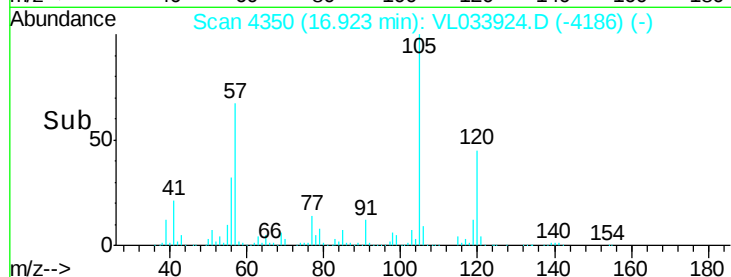
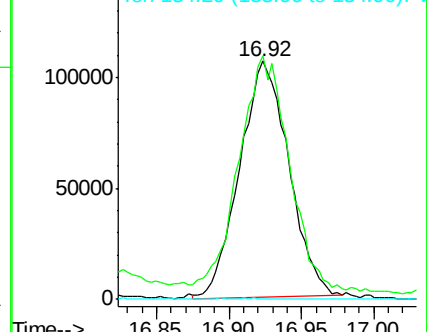
134 0.5 15.5 23.3#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#67

sec-Butylbenzene

Concen: 0.130 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.02 min

Lab File: VL033924.D

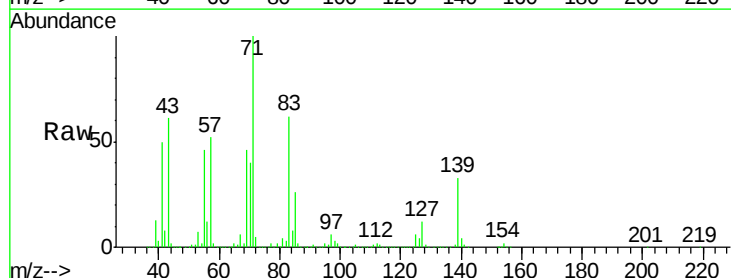
Acq: 14 Jun 2019 8:45

Tgt Ion:105 Resp: 68587

Ion Ratio Lower Upper

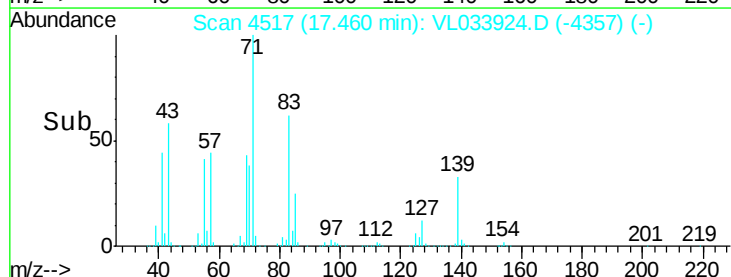
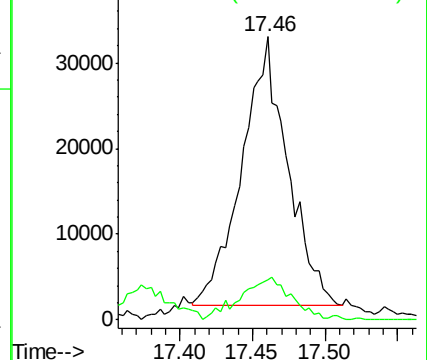
105 100

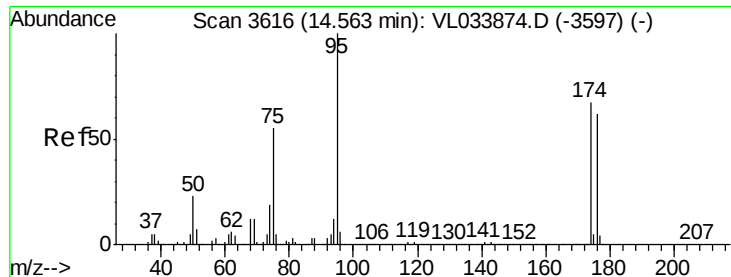
134 18.1 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

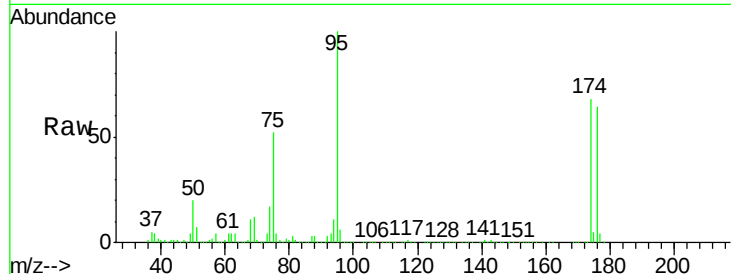




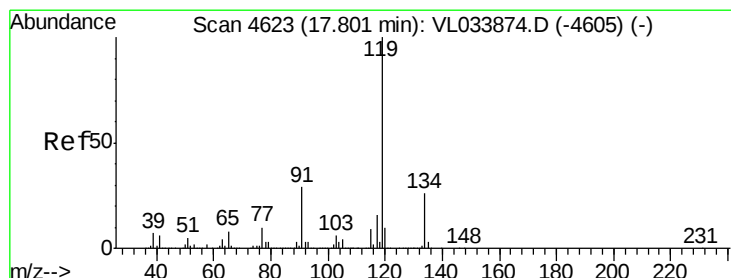
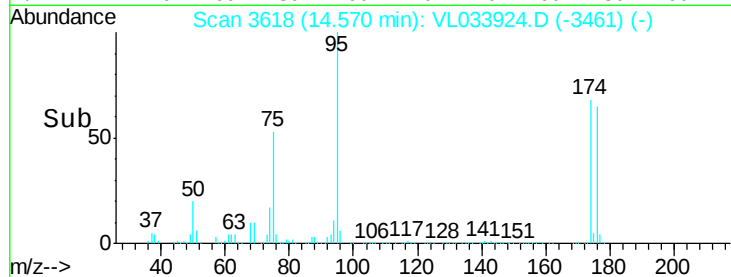
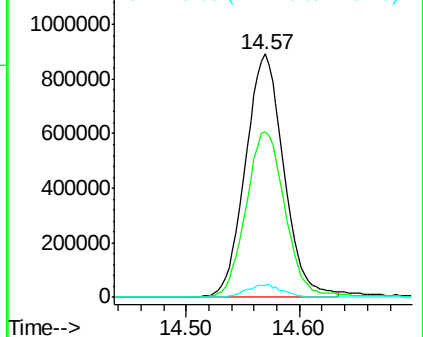
#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.959 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. 0.01 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 V2

Tgt Ion: 95 Resp: 2098879
 Ion Ratio Lower Upper
 95 100
 174 70.5 54.0 81.0
 175 5.0 3.8 5.8

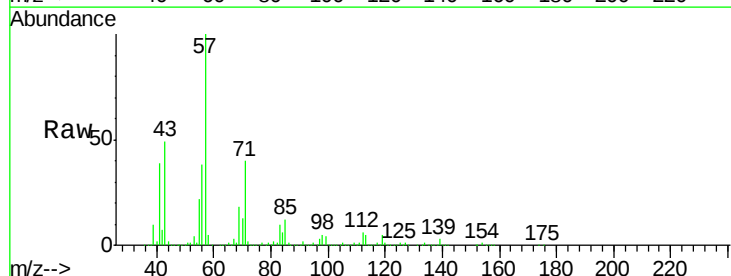


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

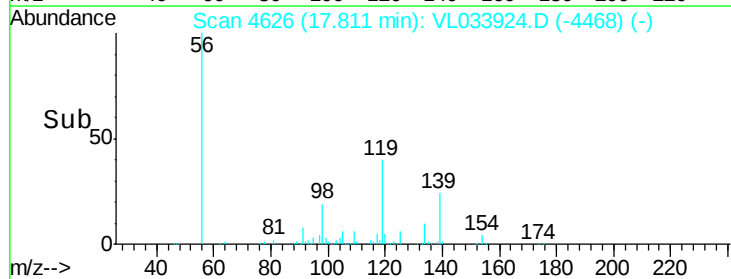
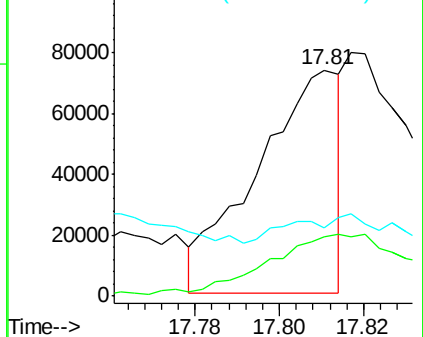


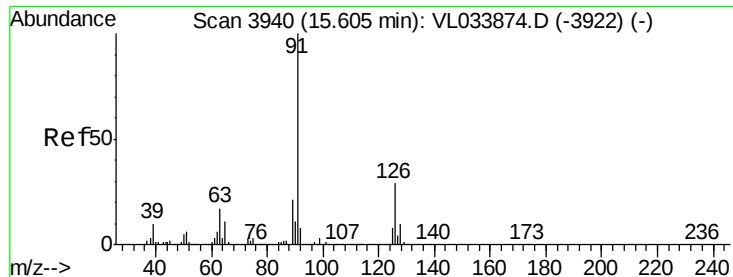
#69
 p-Isopropyltoluene
 Concen: 0.229 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. 0.01 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Tgt Ion: 119 Resp: 100563
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.3 30.5#
 91 0.0 23.8 35.6#



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0

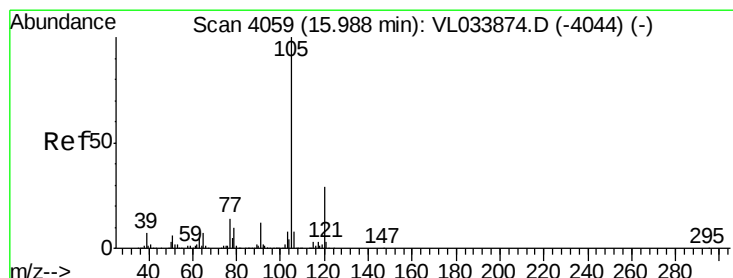
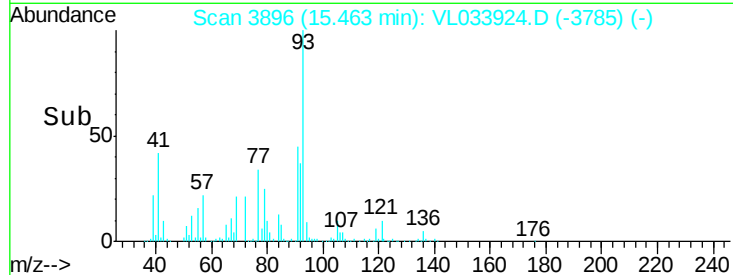
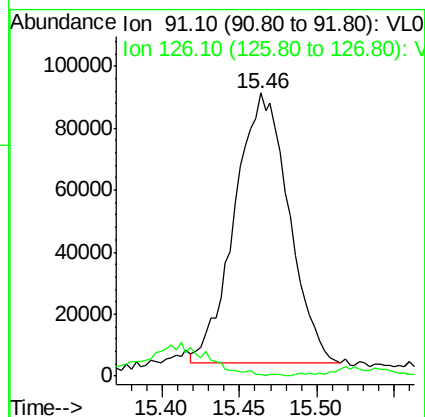
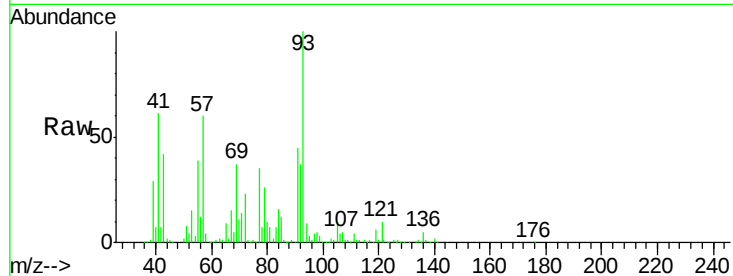




#71
 2-Chlorotoluene
 Concen: 0.703 ppbv
 RT: 15.46 min Scan# 3896
 Delta R.T. -0.14 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

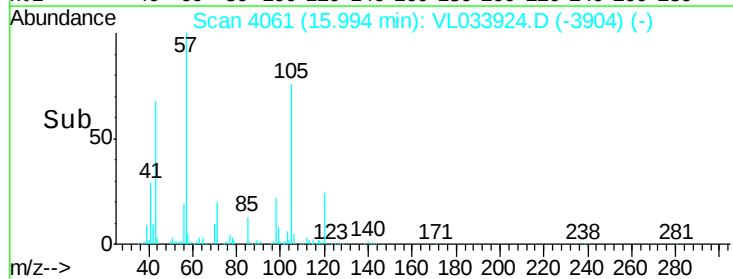
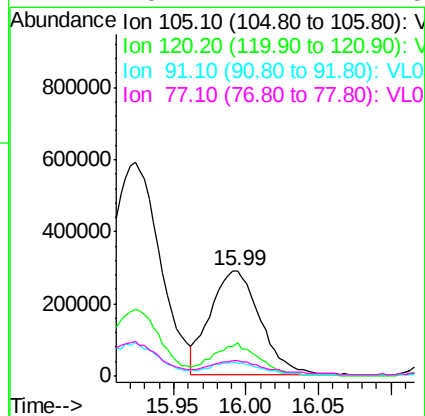
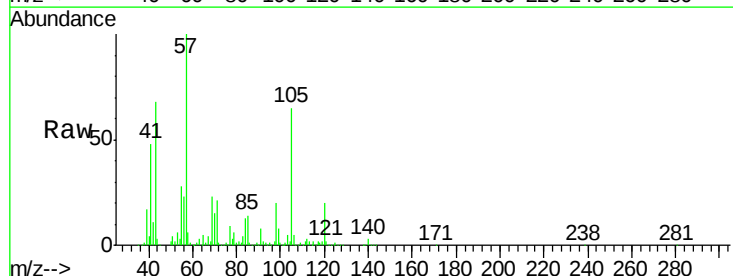
Instrument :
 MSVOA_L
 ClientSampleId :
 V2

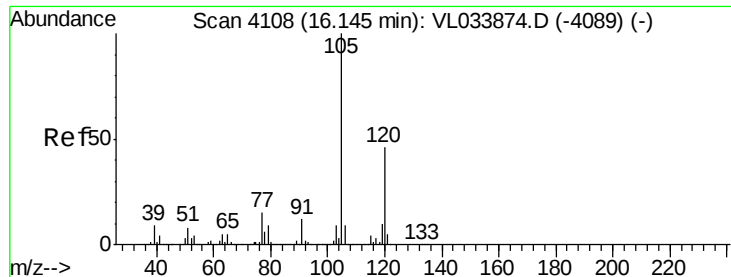
Tgt Ion: 91 Resp: 210718
 Ion Ratio Lower Upper
 91 100
 126 14.3 12.0 48.2



#72
 4-Ethyltoluene
 Concen: 2.015 ppbv
 RT: 15.99 min Scan# 4061
 Delta R.T. 0.01 min
 Lab File: VL033924.D
 Acq: 14 Jun 2019 8:45

Tgt Ion: 105 Resp: 692279
 Ion Ratio Lower Upper
 105 100
 120 31.2 23.5 35.3
 91 14.3 10.4 15.6
 77 16.7 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 1.830 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampled :

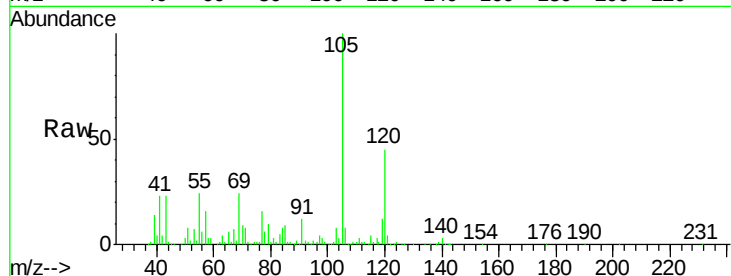
V2

Tgt Ion:105 Resp: 619242

Ion Ratio Lower Upper

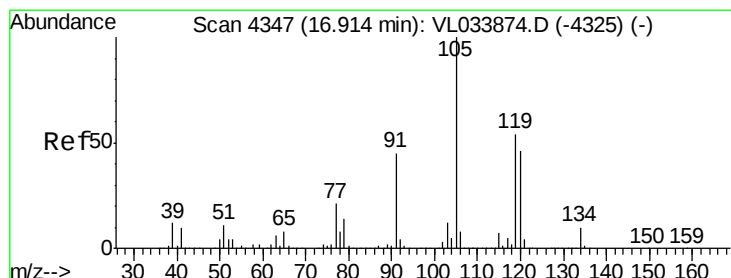
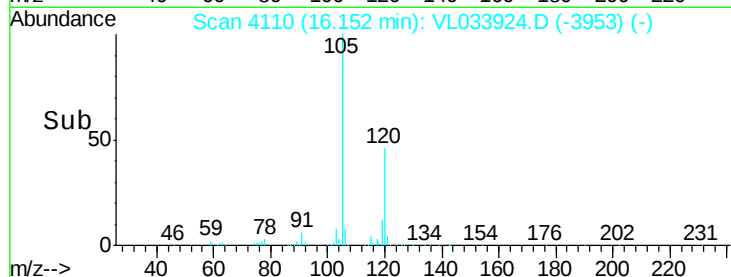
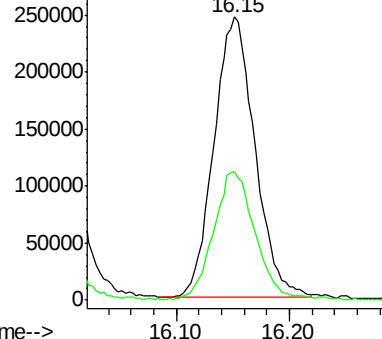
105 100

120 45.6 37.1 55.7



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: 5.800 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.01 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Tgt Ion:105 Resp: 2262218

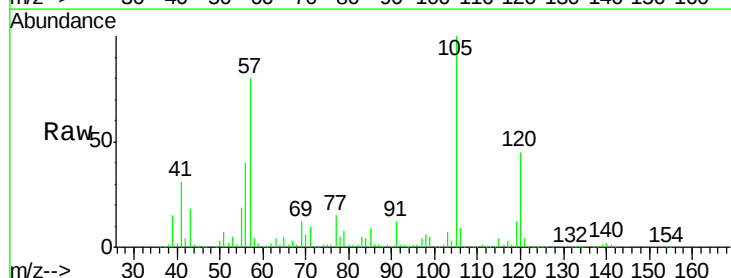
Ion Ratio Lower Upper

105 100

120 45.2 36.7 55.1

91 11.7 35.8 53.8#

77 13.9 16.9 25.3#

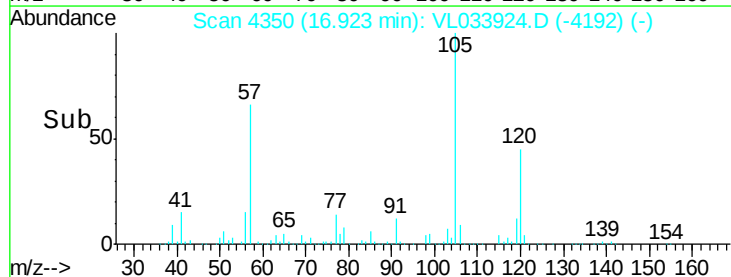
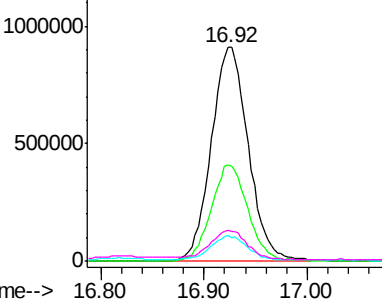


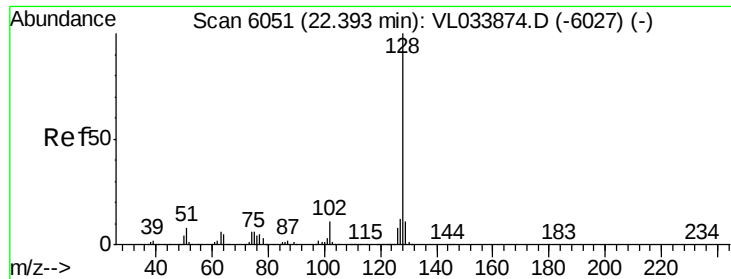
Abundance Ion 105.10 (104.80 to 105.80): V

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





#79

Naphthalene

Concen: 0.829 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. 0.02 min

Lab File: VL033924.D

Acq: 14 Jun 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

V2

Tgt Ion:128 Resp: 258621

Ion Ratio Lower Upper

128 100

127 12.2 9.7 14.5

129 11.2 8.6 12.8

