

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041719\
 Data File : VL033603.D
 Acq On : 17 Apr 2019 15:37
 Operator : SY/AP
 Sample : K2241-14 1 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Quant Time: Apr 18 06:00:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	848568	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2073098	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2060794	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1642660	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	135220	1.093	ppbv	97
3) Chlorodifluoromethane	3.01	51	99859	1.022	ppbv	98
4) Chloromethane	3.17	50	52854	1.022	ppbv	100
5) Vinyl Chloride	3.29	62	51447	1.013	ppbv	97
6) Bromomethane	3.51	94	33847	1.037	ppbv	94
7) Chloroethane	3.60	64	19374	1.025	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	135972	1.031	ppbv	98
9) Propene	3.04	41	41655	1.015	ppbv	98
10) Heptane	8.24	43	96825	0.883	ppbv	100
11) Trichlorofluoromethane	4.00	101	155418	1.019	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	103639	1.012	ppbv	98
13) Ethanol	3.65	45	18256m	1.720	ppbv	
14) Bromoethene	3.79	108	40511	0.991	ppbv	99
15) Acetone	3.91	43	115560	1.133	ppbv	96
16) 1,3-Butadiene	3.36	39	45050	1.113	ppbv	94
17) tert-Butyl alcohol	4.37	59	21120m	1.126	ppbv	
18) 1,1-Dichloroethene	4.35	96	46064	1.047	ppbv	93
19) Isopropyl Alcohol	4.03	45	75911	1.176	ppbv #	94
20) Methylene Chloride	4.41	84	48040	1.109	ppbv	91
21) Allyl Chloride	4.48	41	62347	0.967	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	46319	1.009	ppbv	84
23) Vinyl Acetate	5.15	43	135477	0.933	ppbv #	96
24) 1,1-Dichloroethane	5.09	63	102704	0.931	ppbv	98
25) Ethyl Acetate	5.77	43	173860	0.918	ppbv	99
26) Hexane	5.78	57	78784	0.936	ppbv	97
27) Carbon Disulfide	4.62	76	93937	0.938	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	115417	0.952	ppbv	100
29) Chloroform	5.84	83	133904	0.928	ppbv	93
30) Cyclohexane	7.25	84	59964	0.901	ppbv	92
31) cis-1,2-Dichloroethene	5.63	61	74423	0.889	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	129288	0.941	ppbv	99
34) 2-Butanone	5.33	43	109540	0.879	ppbv	99
35) Carbon Tetrachloride	7.13	117	137181	0.934	ppbv	96
36) Benzene	7.00	78	156574	0.900	ppbv	96
37) 1,2-Dichloroethane	6.41	62	102939	0.883	ppbv	99
38) Trichloroethene	7.96	130	62365	0.953	ppbv	90
39) 1,2-Dichloropropane	7.73	63	57256	0.840	ppbv	95
40) 1,4-Dioxane	7.98	88	25399m	1.045	ppbv	
41) Tetrahydrofuran	6.17	42	57216m	0.835	ppbv	
42) Bromodichloromethane	7.91	83	138438	0.872	ppbv	98
43) Methyl Methacrylate	8.14	69	55096	0.780	ppbv	95

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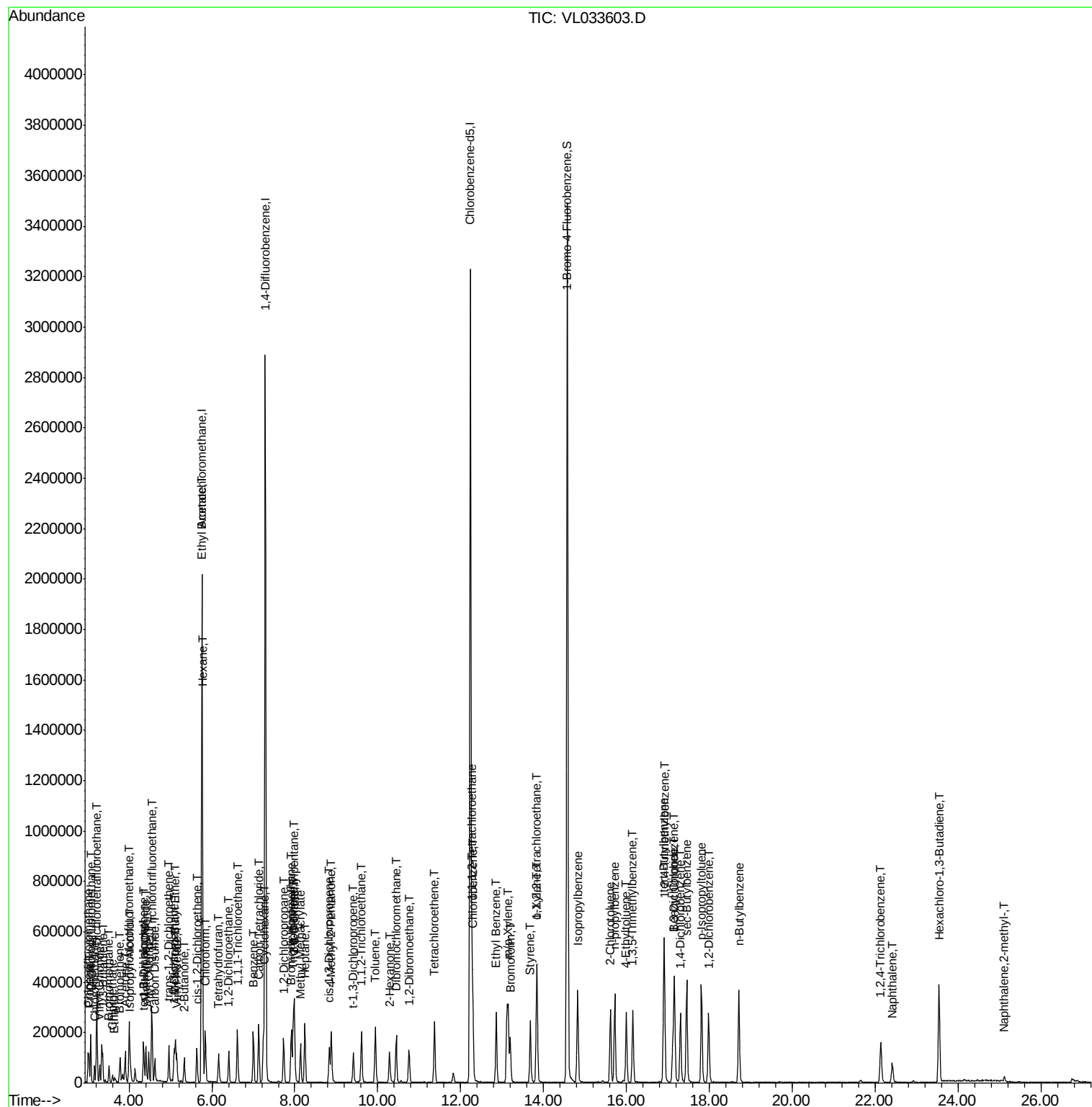
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	268642	0.884	ppbv	97
45) t-1,3-Dichloropropene	9.41	75	65248	0.752	ppbv #	88
46) cis-1,3-Dichloropropene	8.83	75	78865m	0.779	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	69025m	0.892	ppbv	
48) Dibromochloromethane	10.45	129	108472	0.831	ppbv	99
49) Bromoform	13.20	173	91290	0.732	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	157668	0.864	ppbv	99
51) 2-Hexanone	10.28	43	105176	0.773	ppbv #	98
52) Tetrachloroethene	11.36	164	59646	0.909	ppbv	90
53) Toluene	9.94	91	169404	0.838	ppbv	99
54) 1,2-Dibromoethane	10.76	107	104247	0.861	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	84907	0.899	ppbv #	1
57) Chlorobenzene	12.30	112	153817	0.961	ppbv	94
58) Ethyl Benzene	12.86	91	236248	0.858	ppbv	96
59) m/p-Xylene	13.14	91	424842m	1.728	ppbv	
60) o-Xylene	13.85	91	213568	0.898	ppbv	100
61) Styrene	13.68	104	133563	0.819	ppbv	99
62) Isopropylbenzene	14.82	105	296708	0.881	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	158883	0.908	ppbv	100
64) n-propylbenzene	15.72	120	73353	0.859	ppbv	95
65) tert-Butylbenzene	16.90	119	259509	0.875	ppbv	98
66) Benzyl Chloride	17.15	91	98466	0.714	ppbv	100
67) sec-Butylbenzene	17.45	105	368482	0.874	ppbv	99
69) p-Isopropyltoluene	17.81	119	280628	0.817	ppbv	97
70) n-Butylbenzene	18.71	91	283385	0.779	ppbv	98
71) 2-Chlorotoluene	15.61	91	214202	0.837	ppbv	100
72) 4-Ethyltoluene	15.99	105	223928	0.838	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	208553	0.816	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	221341	0.808	ppbv	90
75) 1,3-Dichlorobenzene	17.16	146	151760	0.896	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	138968	0.842	ppbv	96
77) 1,2-Dichlorobenzene	17.98	146	144305	0.898	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	102390m	0.962	ppbv	
79) Naphthalene	22.41	128	97556	0.416	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	11881	0.151	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	73041m	0.561	ppbv	

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

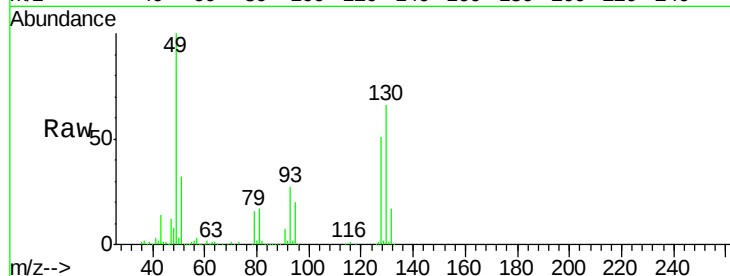
Tot Ion: 49 Resp: 848568

Ion Ratio Lower Upper

49 100

128 49.7 24.0 72.0

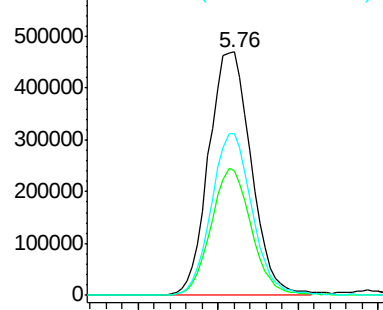
130 64.5 31.2 93.6



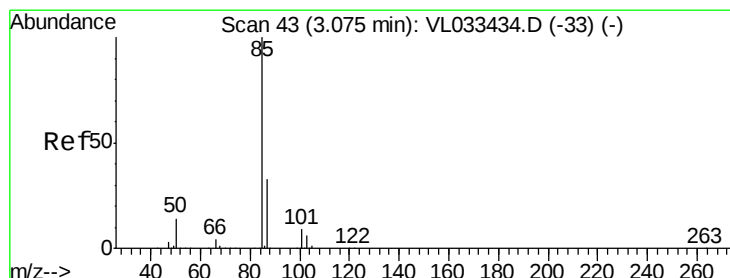
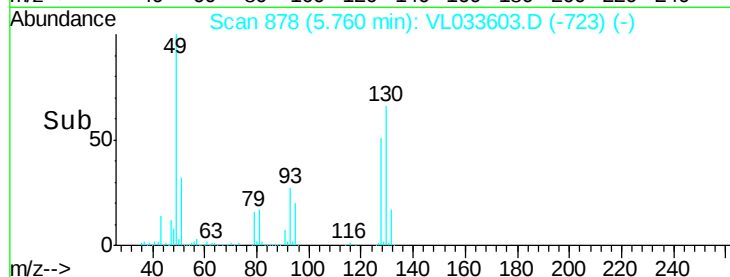
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 1.093 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033603.D

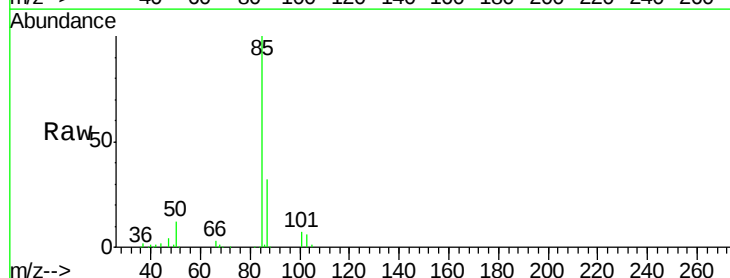
Acq: 17 Apr 2019 15:37

Tgt Ion: 85 Resp: 135220

Ion Ratio Lower Upper

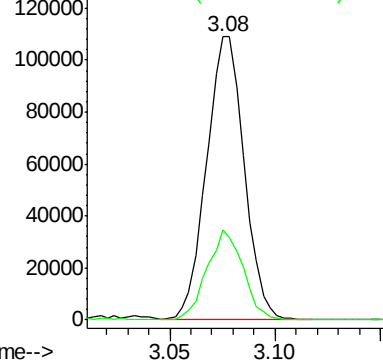
85 100

87 31.9 26.7 40.1

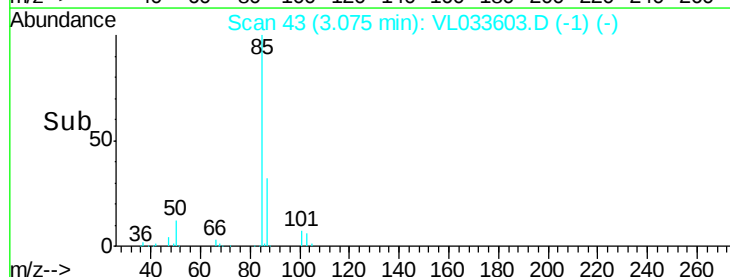


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 1.022 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

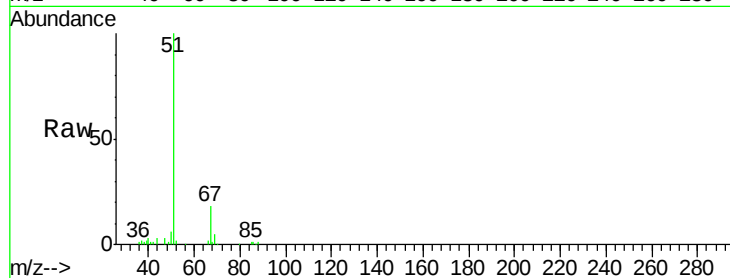
LOQ-AIR-02-QT2-2019

Tot Ion: 51 Resp: 99859

Ion Ratio Lower Upper

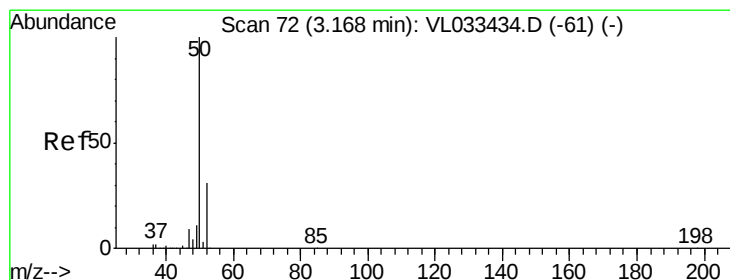
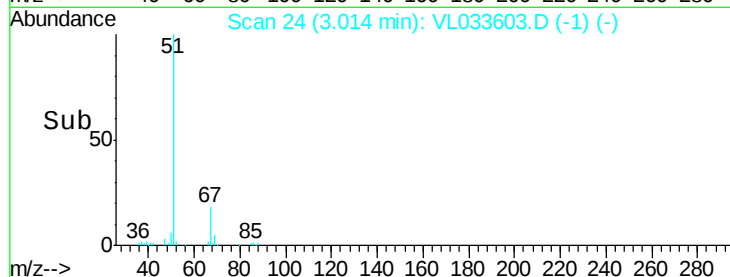
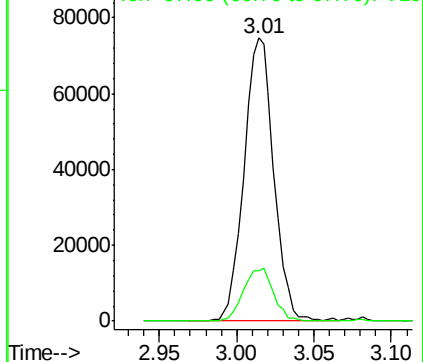
51 100

67 18.7 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.022 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033603.D

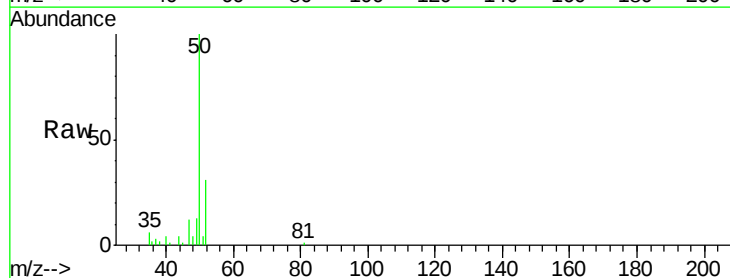
Acq: 17 Apr 2019 15:37

Tgt Ion: 50 Resp: 52854

Ion Ratio Lower Upper

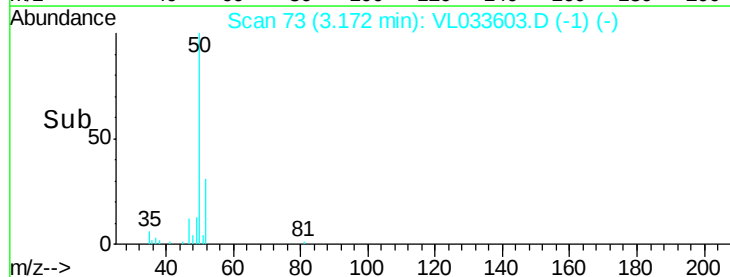
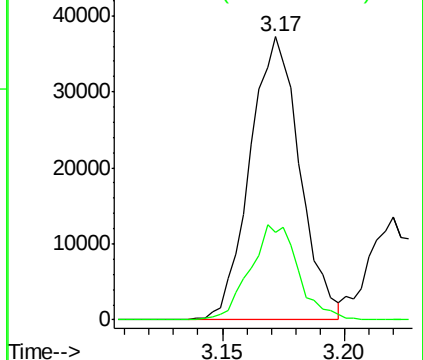
50 100

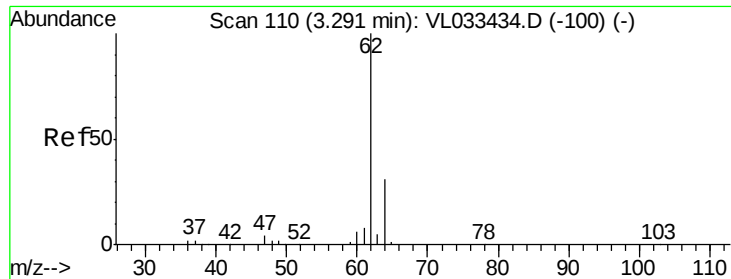
52 31.1 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.013 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

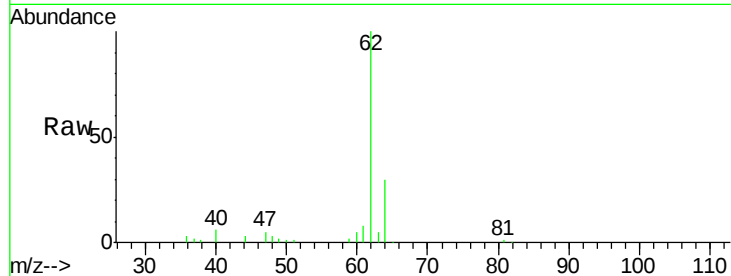
LOQ-AIR-02-QT2-2019

Tot Ion: 62 Resp: 51447

Ion Ratio Lower Upper

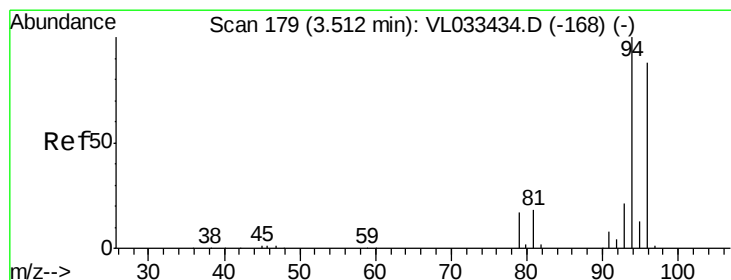
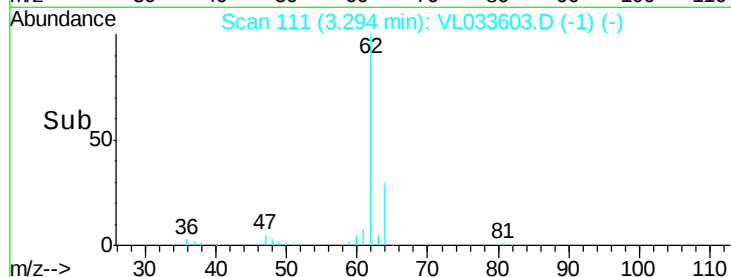
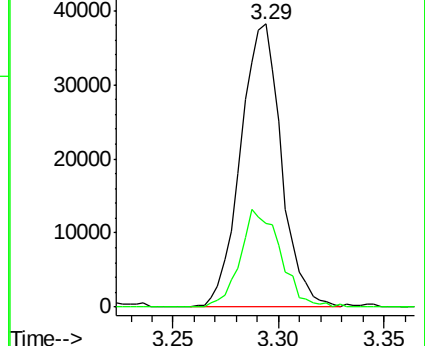
62 100

64 29.6 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.037 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033603.D

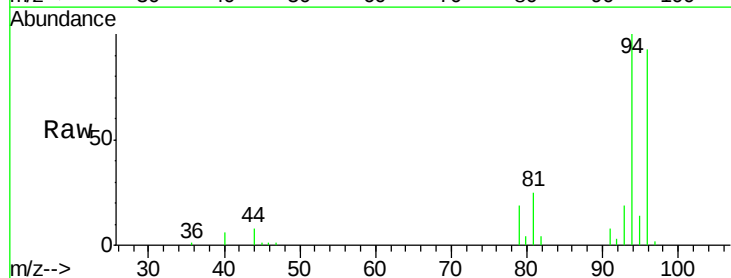
Acq: 17 Apr 2019 15:37

Tgt Ion: 94 Resp: 33847

Ion Ratio Lower Upper

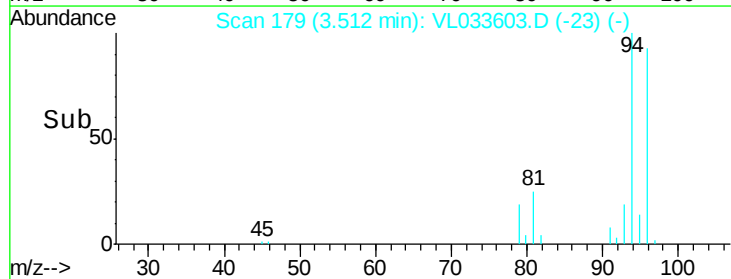
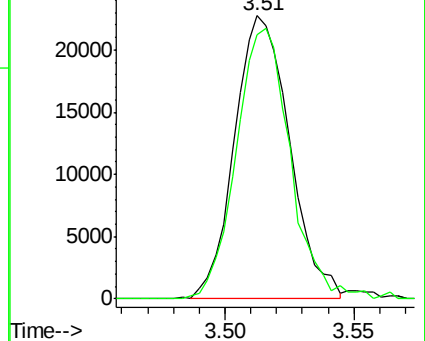
94 100

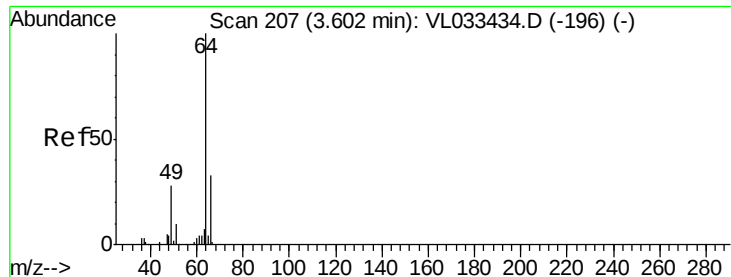
96 92.8 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.025 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

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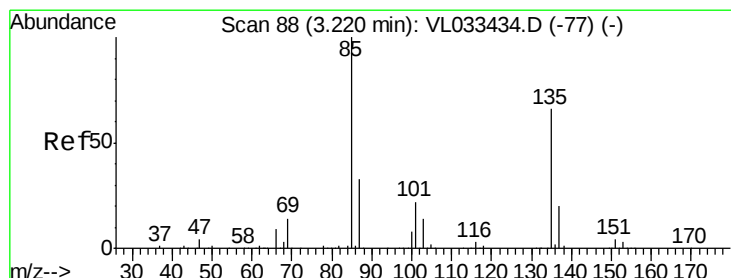
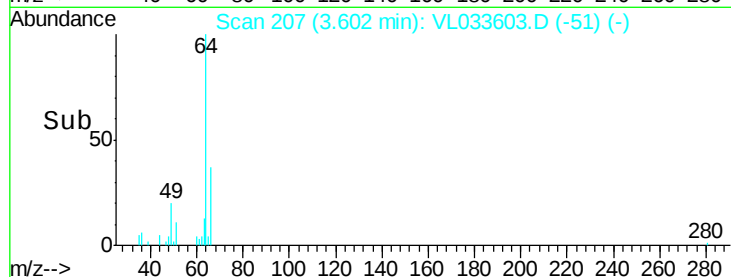
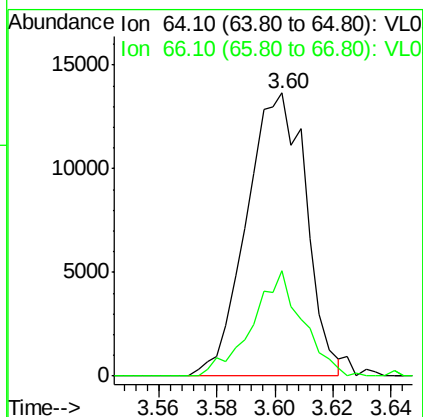
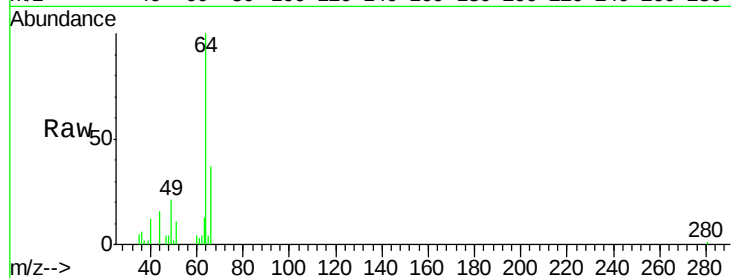
LOQ-AIR-02-QT2-2019

Tot Ion: 64 Resp: 19374

Ion Ratio Lower Upper

64 100

66 37.4 26.7 40.1



#8

Dichlorotetrafluoroethane

Concen: 1.031 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033603.D

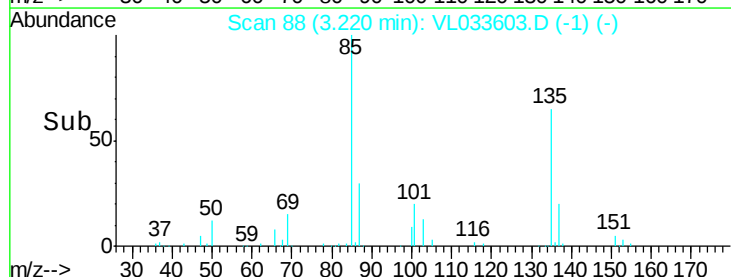
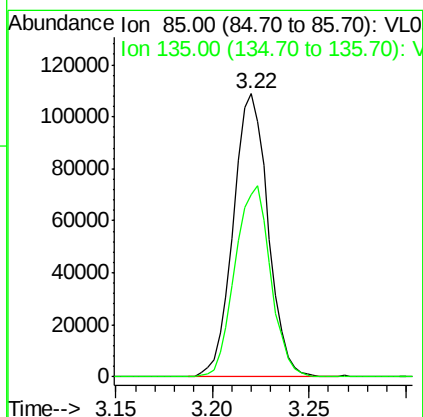
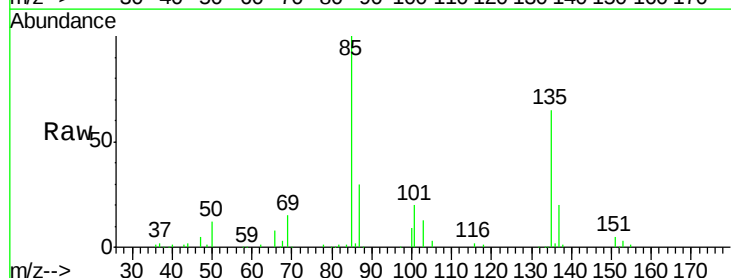
Acq: 17 Apr 2019 15:37

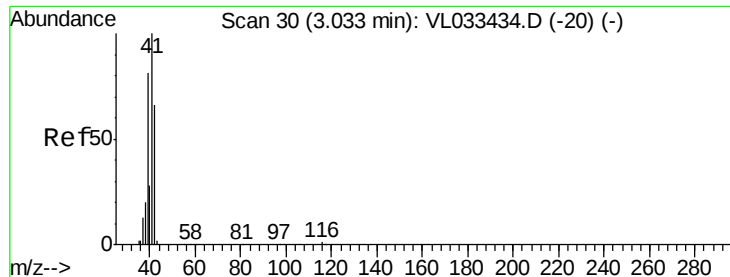
Tgt Ion: 85 Resp: 135972

Ion Ratio Lower Upper

85 100

135 69.0 54.0 81.0





#9

Propene

Concen: 1.015 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

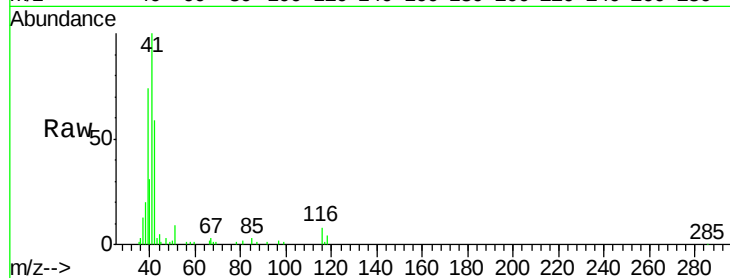
LOQ-AIR-02-QT2-2019

Tot Ion: 41 Resp: 41655

Ion Ratio Lower Upper

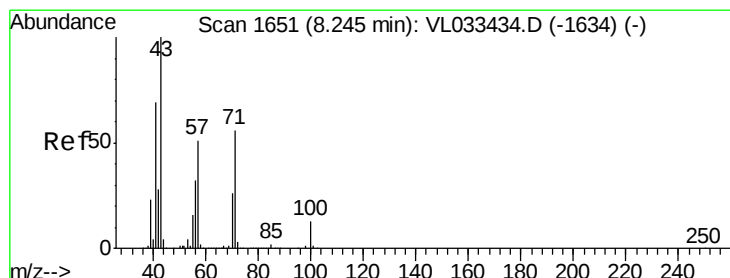
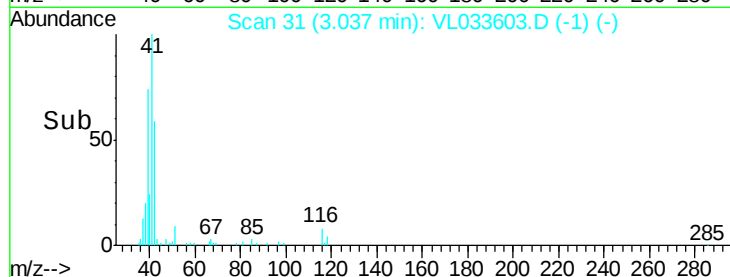
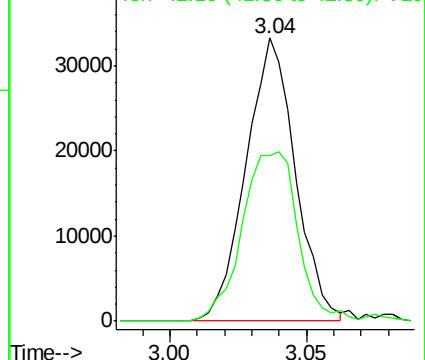
41 100

42 68.6 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.883 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033603.D

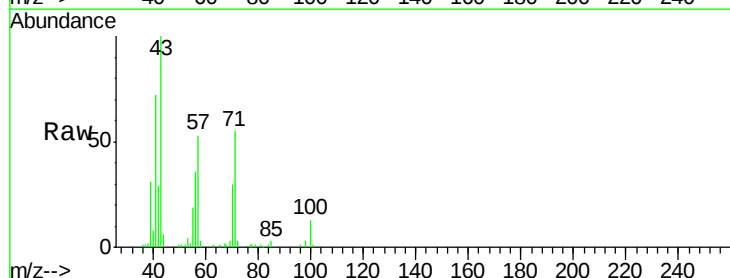
Acq: 17 Apr 2019 15:37

Tgt Ion: 43 Resp: 96825

Ion Ratio Lower Upper

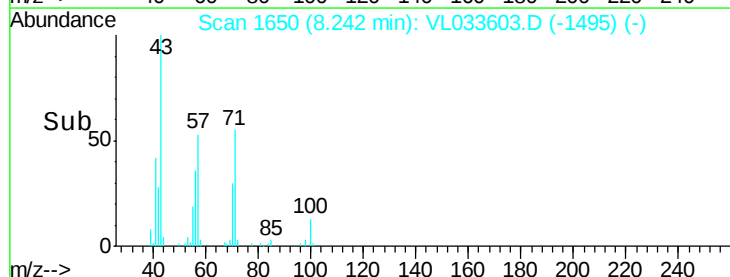
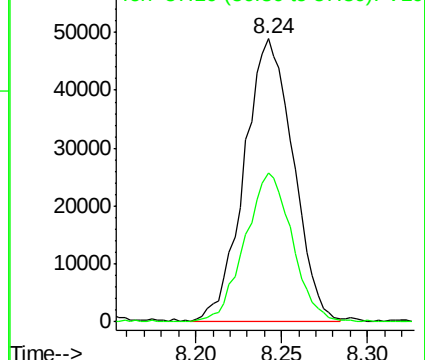
43 100

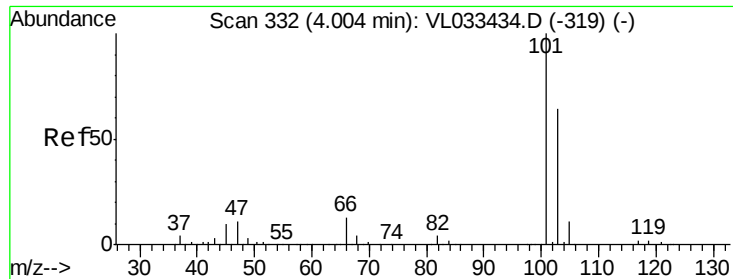
57 50.7 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 1.019 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

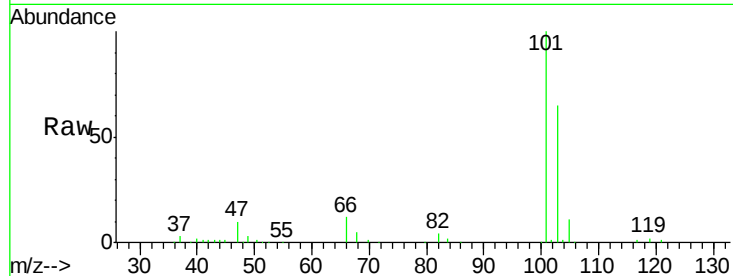
LOQ-AIR-02-QT2-2019

Tot Ion:101 Resp: 155418

Ion Ratio Lower Upper

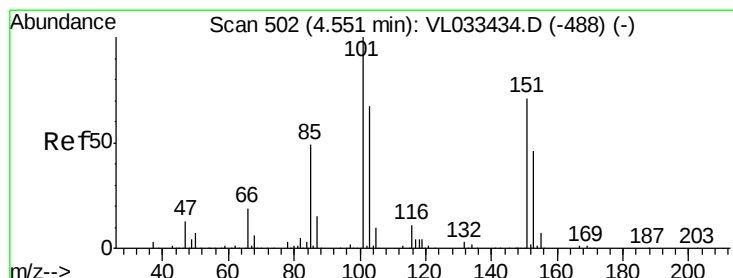
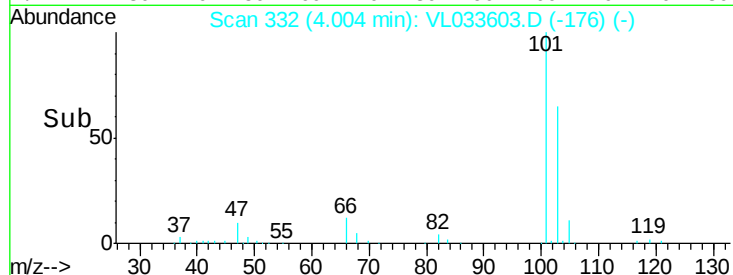
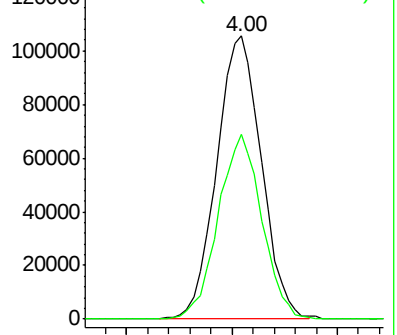
101 100

103 65.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.012 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033603.D

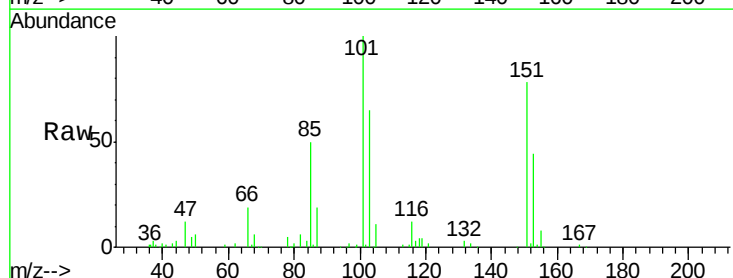
Acq: 17 Apr 2019 15:37

Tgt Ion:101 Resp: 103639

Ion Ratio Lower Upper

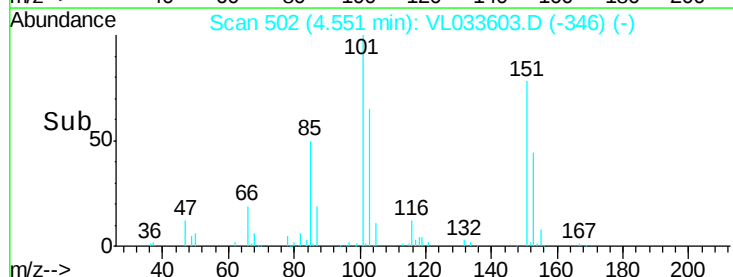
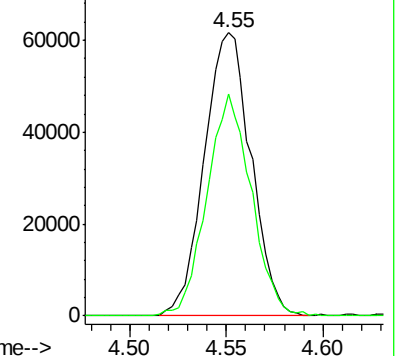
101 100

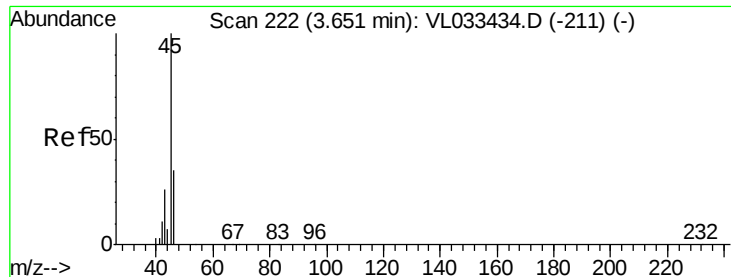
151 74.0 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.720 ppbv m

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

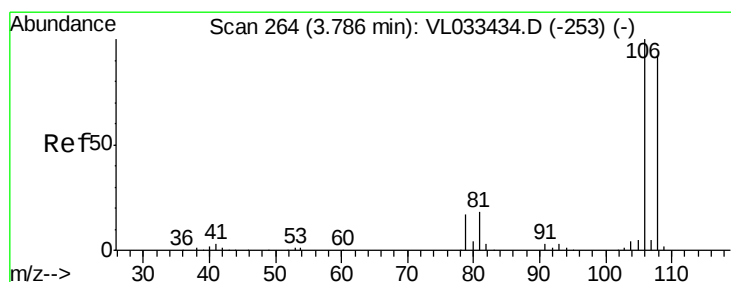
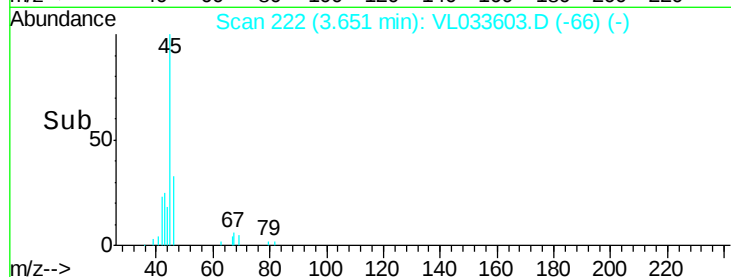
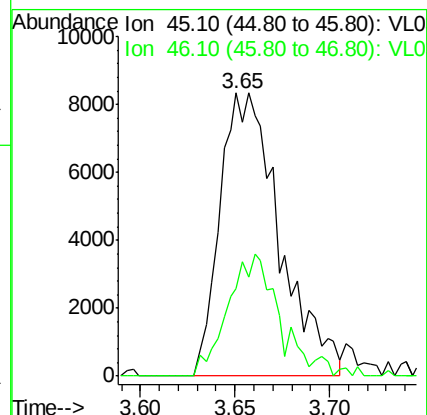
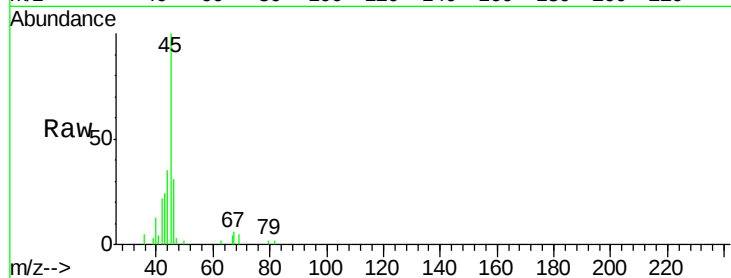
LOQ-AIR-02-QT2-2019

Tot Ion: 45 Resp: 18256

Ion Ratio Lower Upper

45 100

46 37.9 25.4 101.8



#14

Bromoethene

Concen: 0.991 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

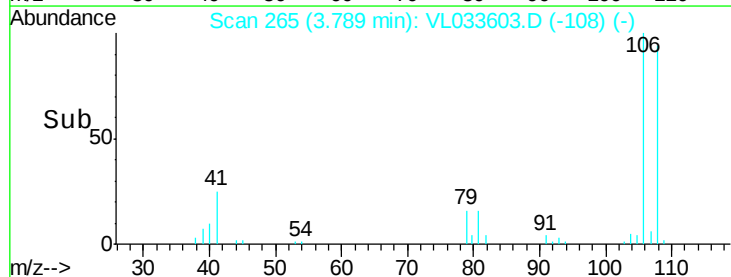
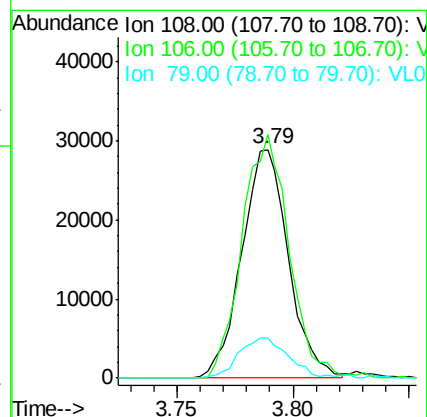
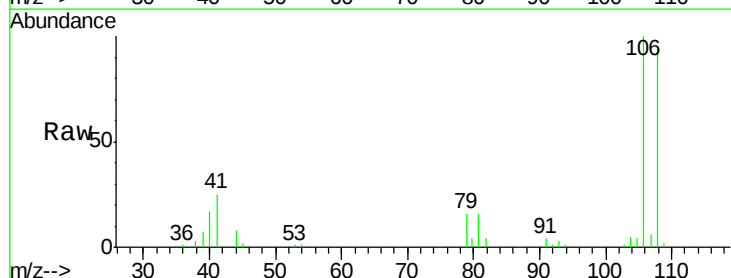
Tgt Ion: 108 Resp: 40511

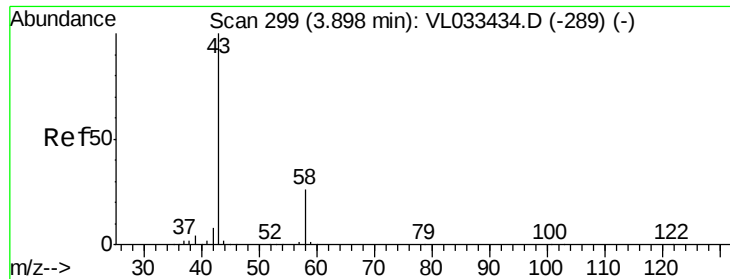
Ion Ratio Lower Upper

108 100

106 107.3 86.4 129.6

79 19.4 15.8 23.8





#15

Acetone

Concen: 1.133 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

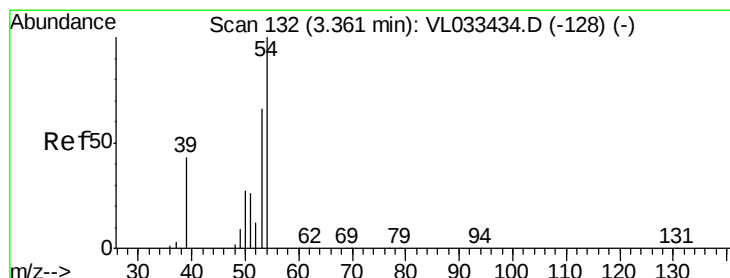
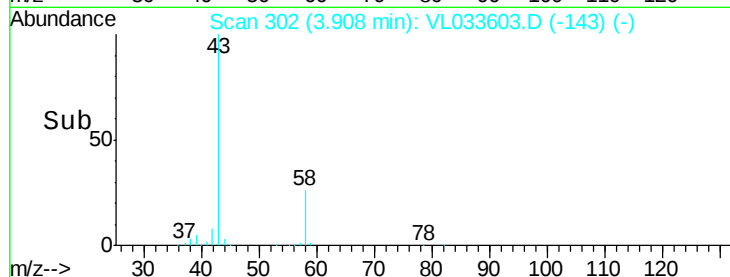
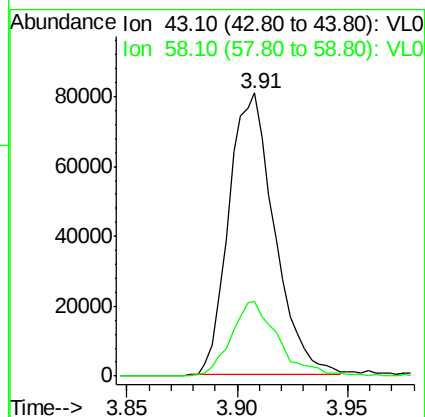
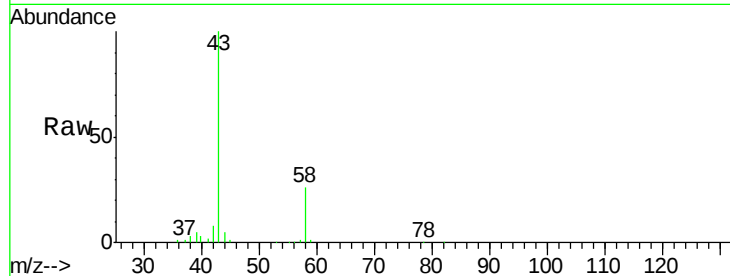
LOQ-AIR-02-QT2-2019

Tot Ion: 43 Resp: 115560

Ion Ratio Lower Upper

43 100

58 27.6 20.5 30.7



#16

1,3-Butadiene

Concen: 1.113 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033603.D

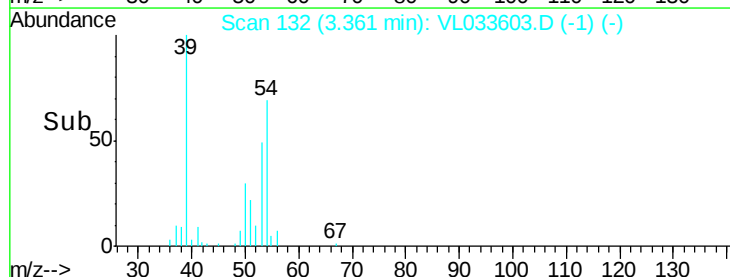
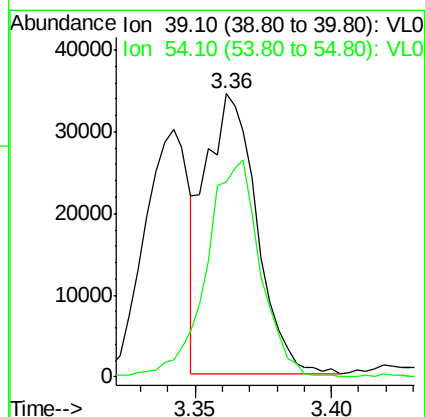
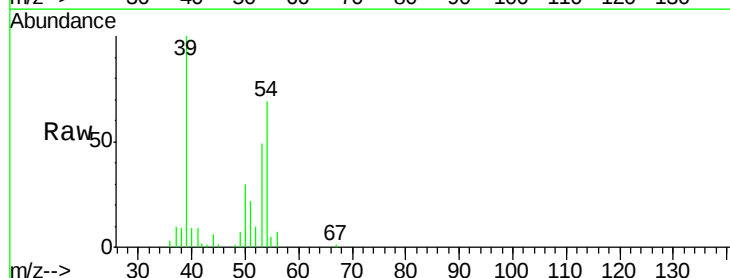
Acq: 17 Apr 2019 15:37

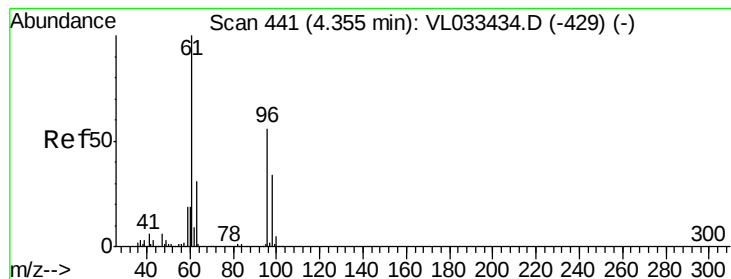
Tgt Ion: 39 Resp: 45050

Ion Ratio Lower Upper

39 100

54 81.1 69.4 104.2





#17

tert-Butyl alcohol

Concen: 1.126 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.02 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

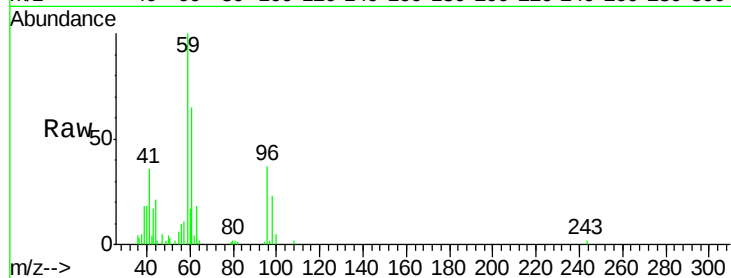
LOQ-AIR-02-QT2-2019

Tot Ion: 59 Resp: 21120

Ion Ratio Lower Upper

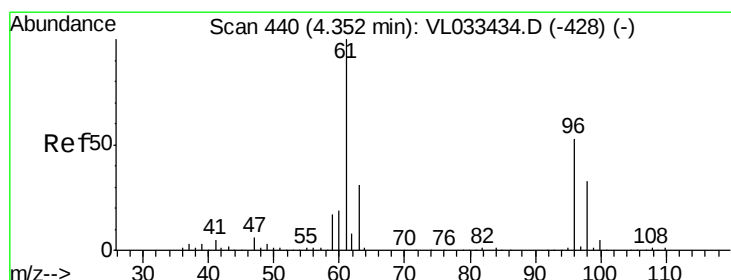
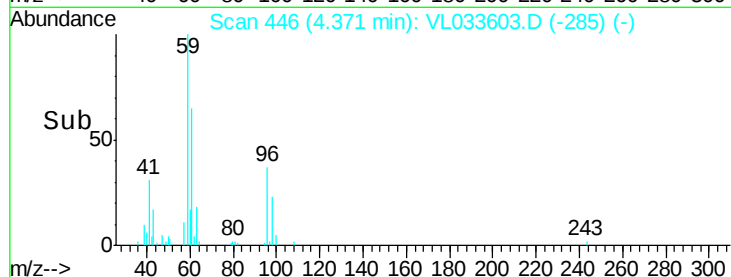
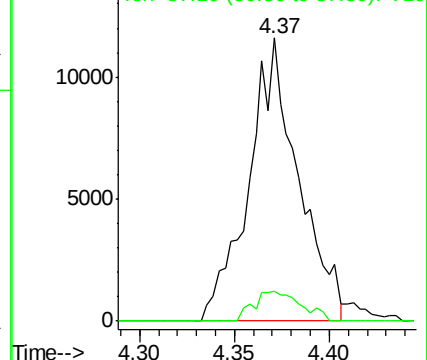
59 100

57 10.0 7.8 11.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 1.047 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

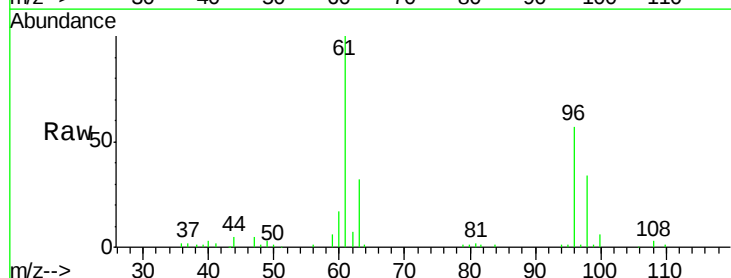
Tgt Ion: 96 Resp: 46064

Ion Ratio Lower Upper

96 100

61 174.5 149.8 224.6

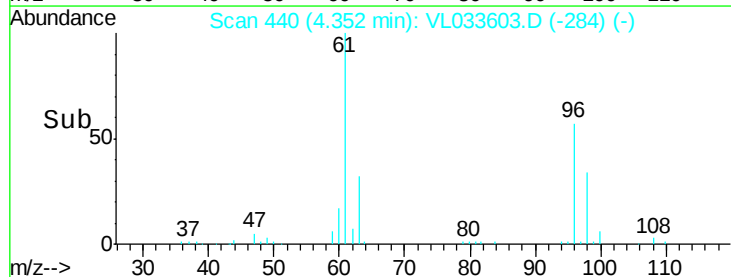
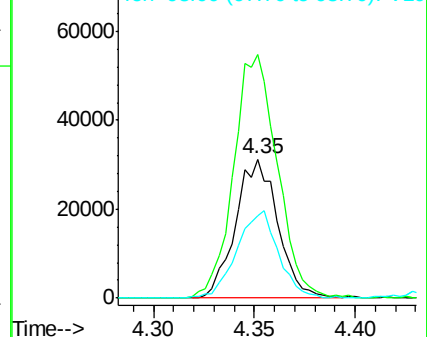
98 59.0 48.7 73.1

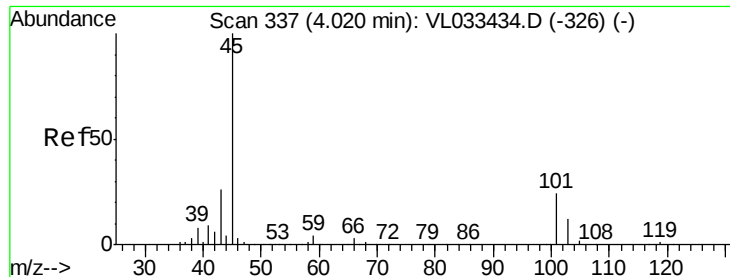


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 1.176 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

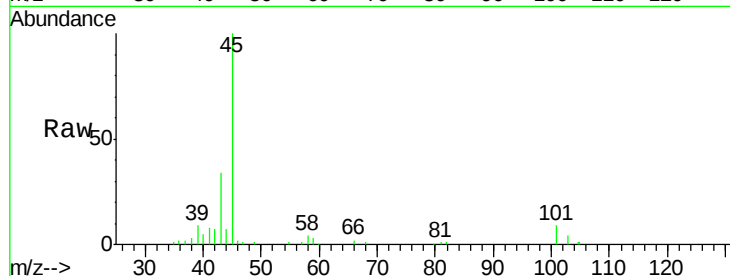
LOQ-AIR-02-QT2-2019

Tot Ion: 45 Resp: 75911

Ion Ratio Lower Upper

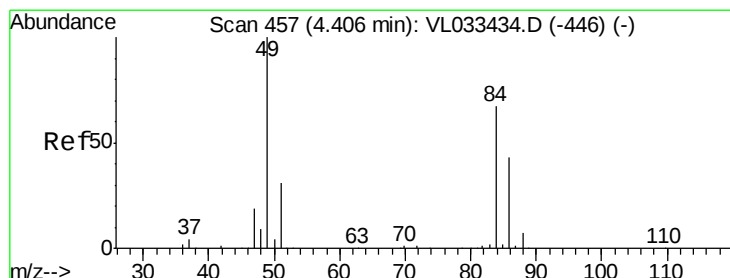
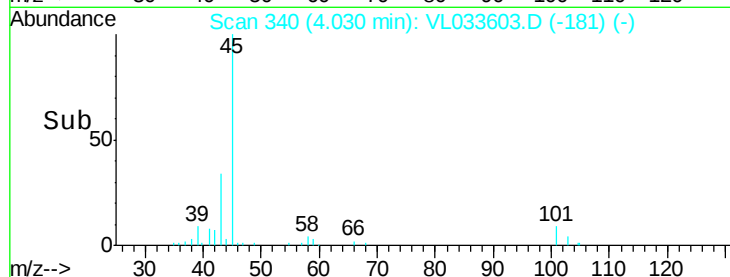
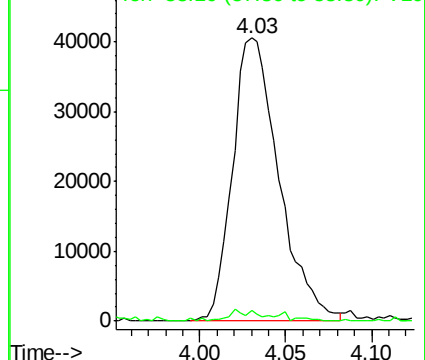
45 100

58 3.8 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.109 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Tgt Ion: 84 Resp: 48040

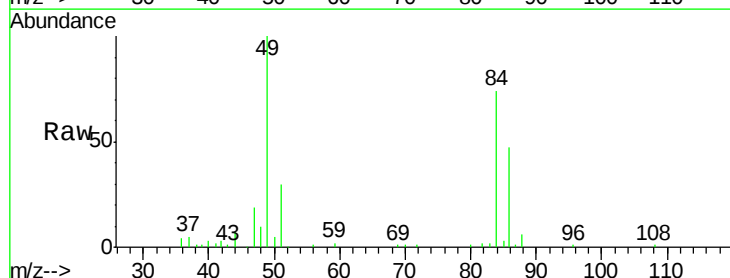
Ion Ratio Lower Upper

84 100

49 134.3 120.0 180.0

51 40.7 36.7 55.1

86 63.4 51.9 77.9

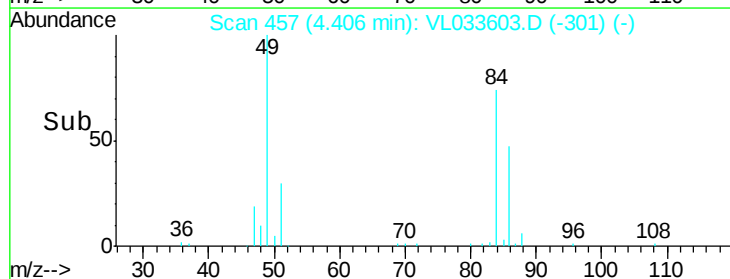
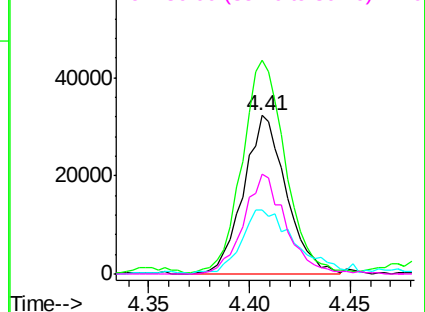


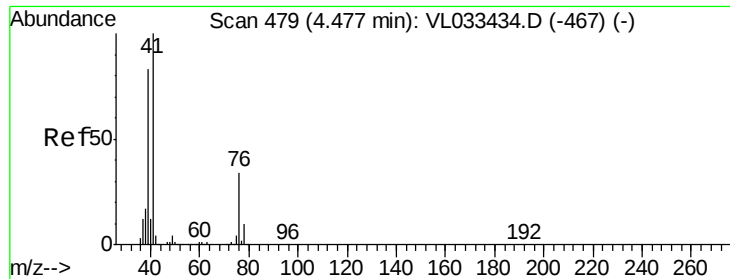
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

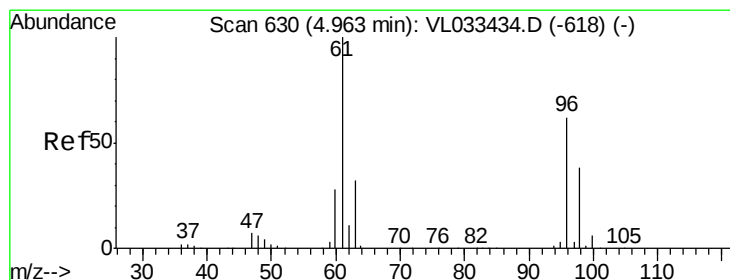
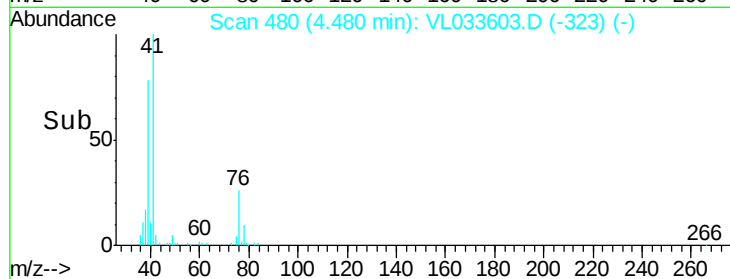
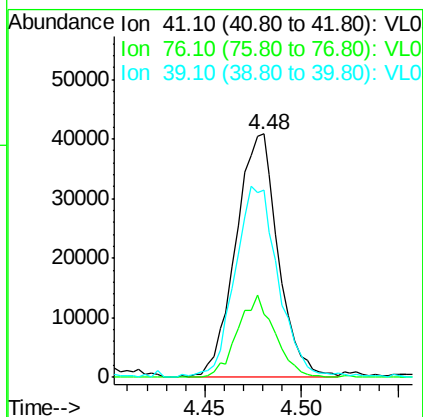
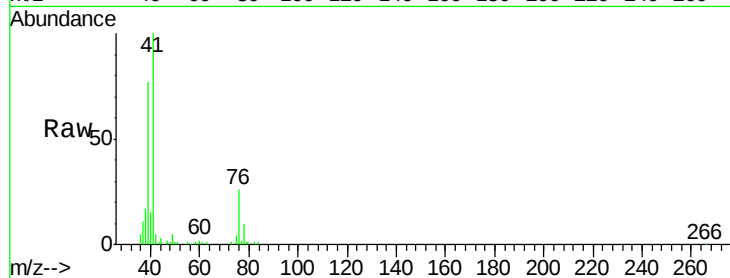




#21
Allvl Chloride
Concen: 0.967 ppbv
RT: 4.48 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

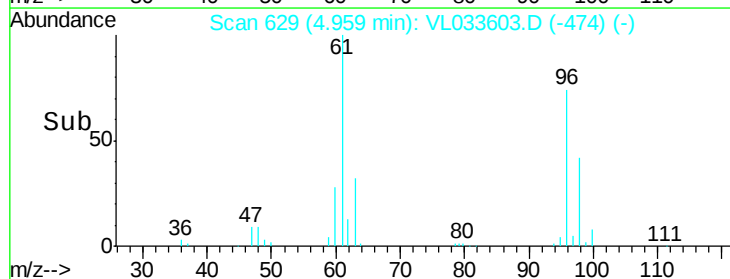
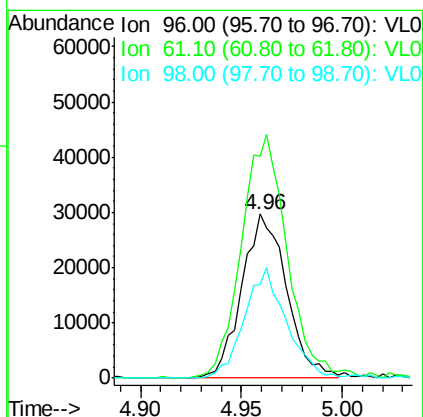
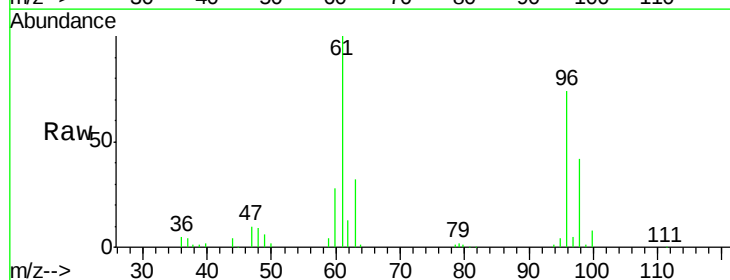
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

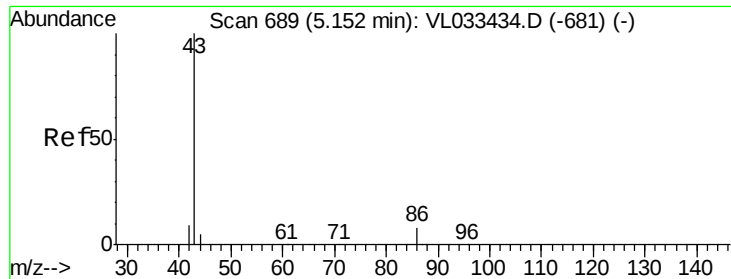
Tot Ion: 41 Resp: 62347
Ion Ratio Lower Upper
41 100
76 29.7 25.4 38.2
39 80.7 65.3 97.9



#22
trans-1,2-Dichloroethene
Concen: 1.009 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Tgt Ion: 96 Resp: 46319
Ion Ratio Lower Upper
96 100
61 135.6 128.9 193.3
98 57.1 49.5 74.3





#23

Vinyl Acetate

Concen: 0.933 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 43 Resp: 135477

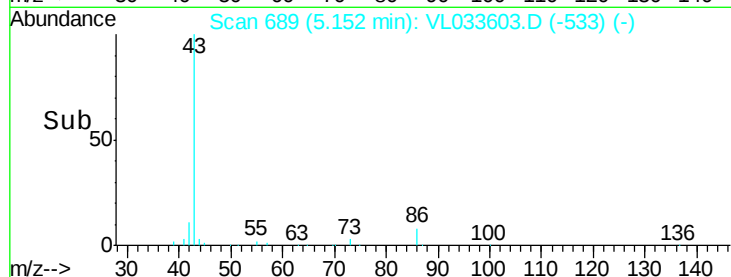
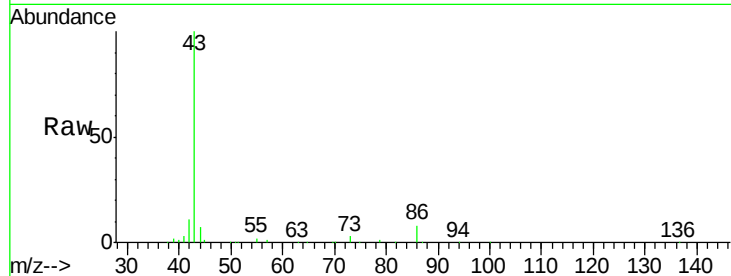
Ion Ratio Lower Upper

43 100

86 8.4 5.6 8.4

42 11.0 8.0 12.0

44 6.6 3.9 5.9#

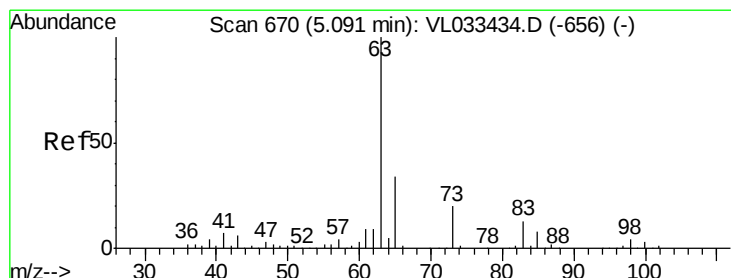
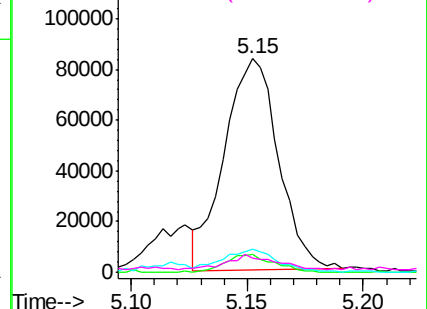


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.931 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

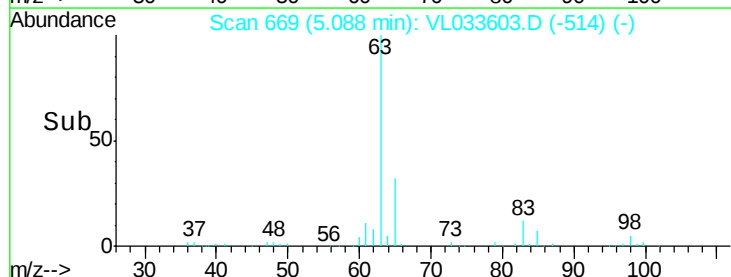
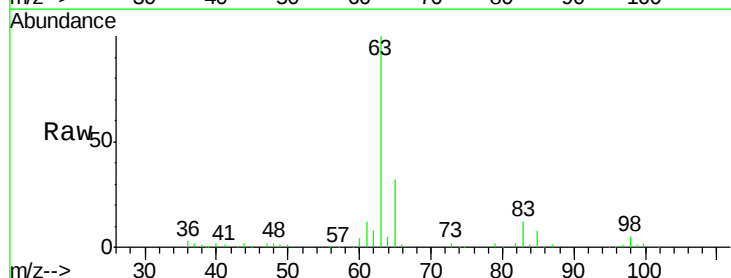
Tgt Ion: 63 Resp: 102704

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

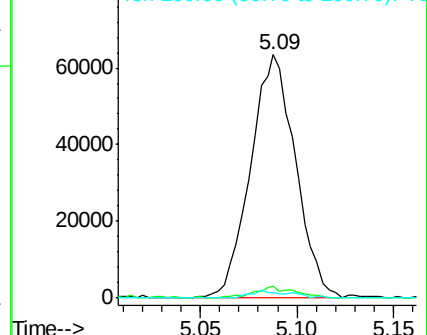
100 2.2 1.5 4.4

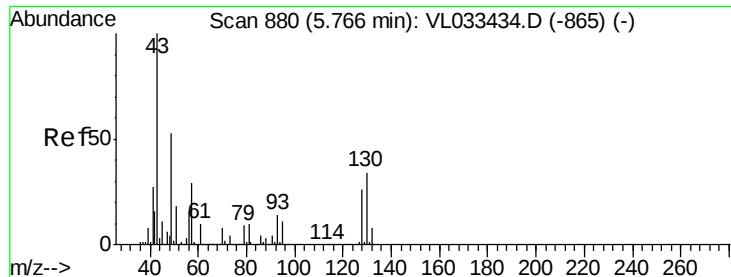


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

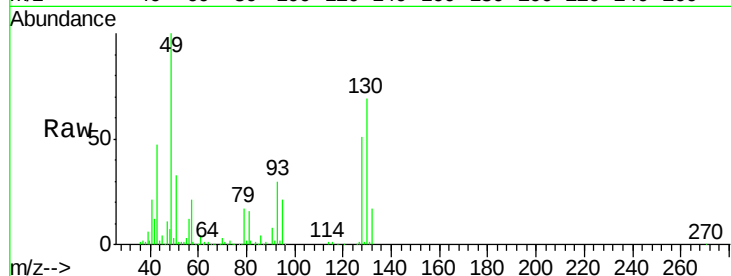




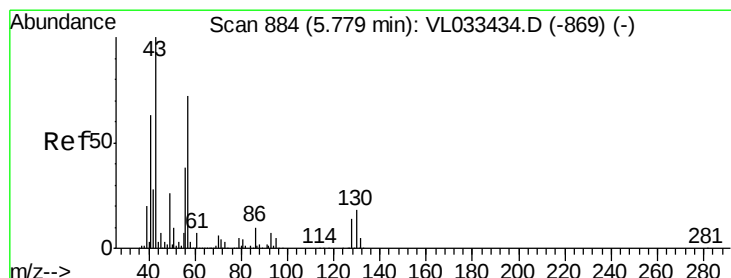
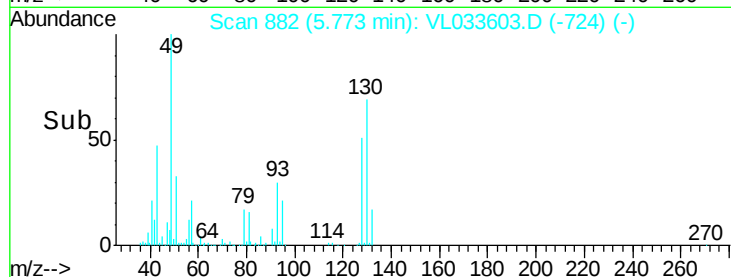
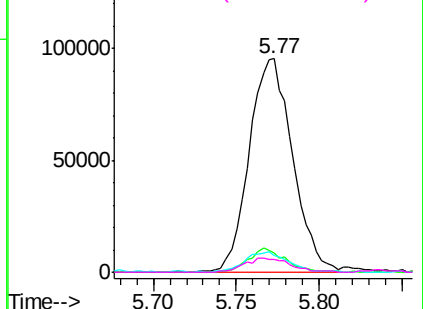
#25
Ethyl Acetate
Concen: 0.918 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion:	43	Resp:	173860
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	10.0	7.3	10.9
70	6.9	5.6	8.4

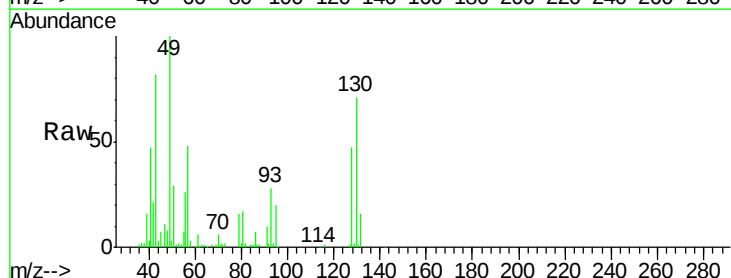


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

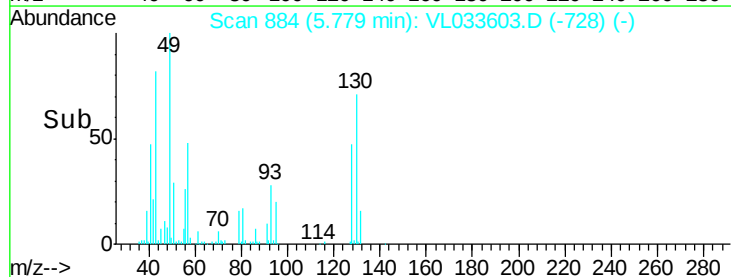
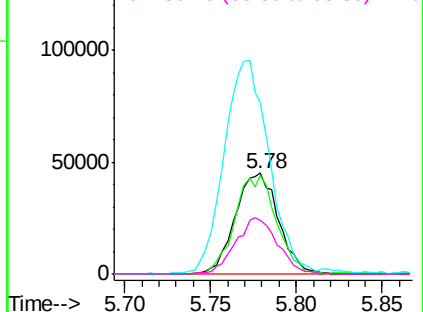


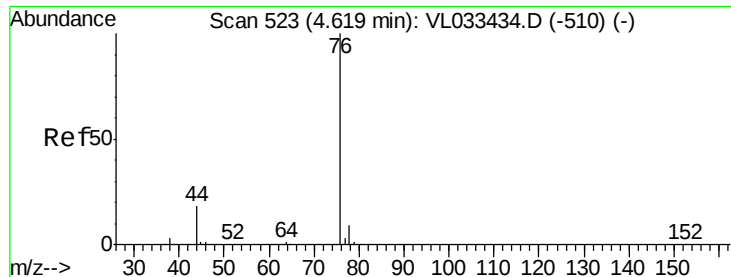
#26
Hexane
Concen: 0.936 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Tgt Ion:	57	Resp:	78784
Ion	Ratio	Lower	Upper
57	100		
41	94.4	70.7	106.1
43	225.2	182.6	274.0
56	54.2	42.0	63.0



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.938 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

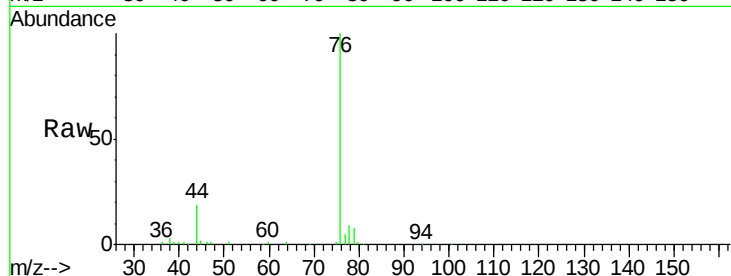
Tot Ion: 76 Resp: 93937

Ion Ratio Lower Upper

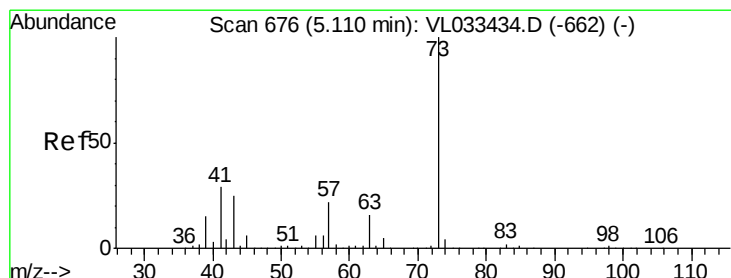
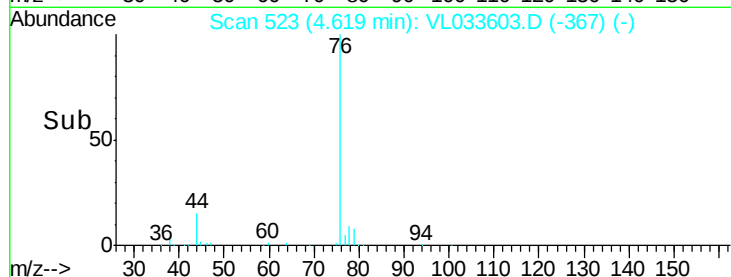
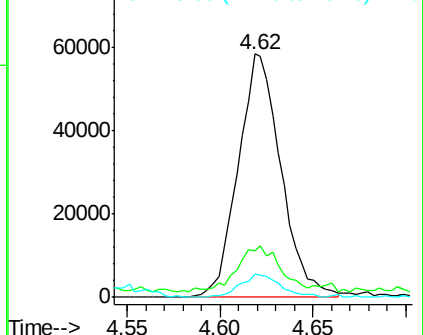
76 100

44 18.8 14.8 22.2

78 9.7 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.952 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.01 min

Lab File: VL033603.D

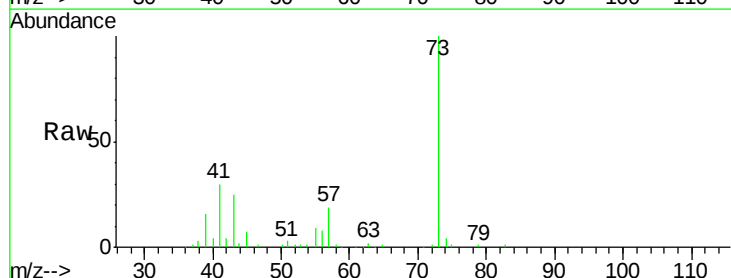
Acq: 17 Apr 2019 15:37

Tgt Ion: 73 Resp: 115417

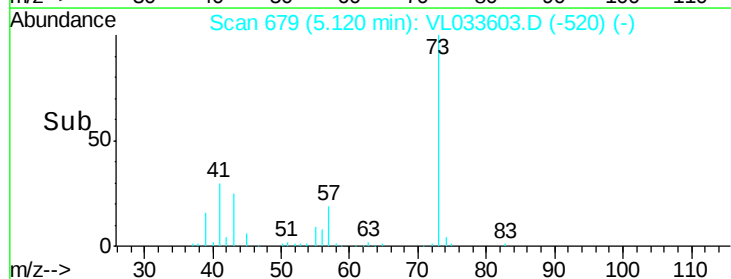
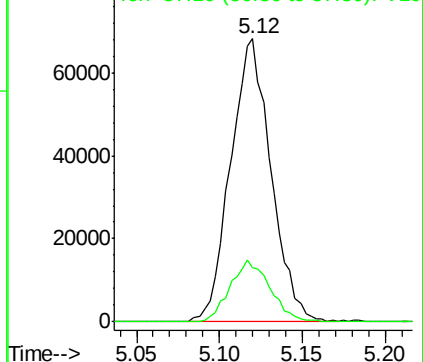
Ion Ratio Lower Upper

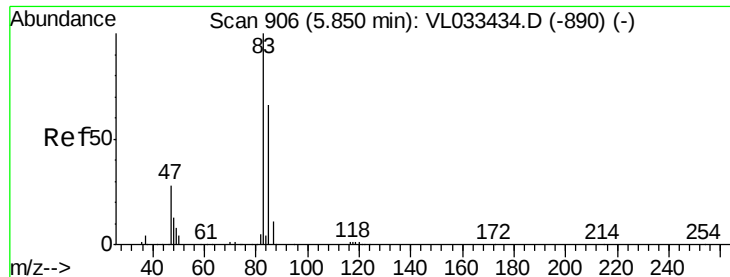
73 100

57 21.6 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.928 ppbv

RT: 5.84 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

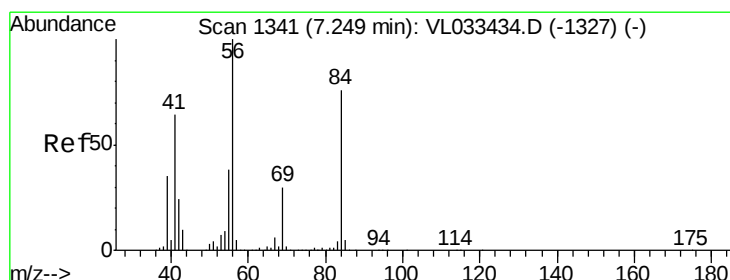
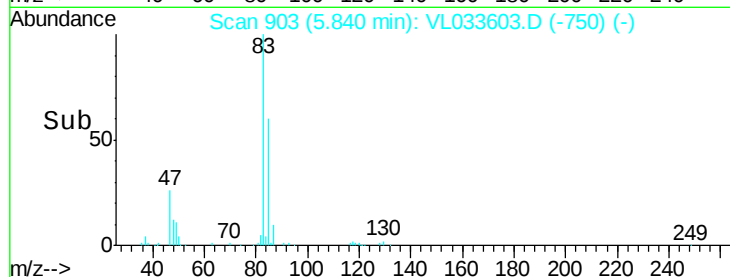
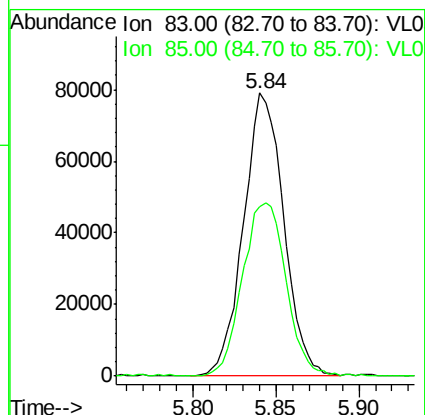
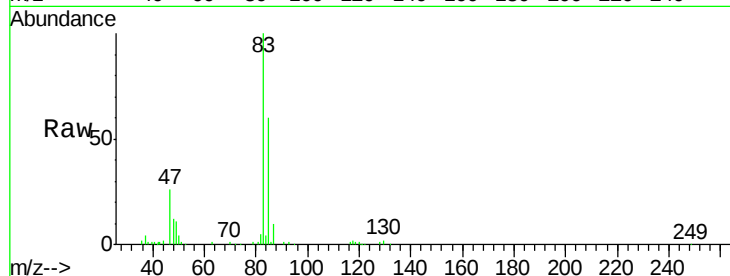
LOQ-AIR-02-QT2-2019

Tot Ion: 83 Resp: 133904

Ion Ratio Lower Upper

83 100

85 59.9 52.6 79.0



#30

Cyclohexane

Concen: 0.901 ppbv

RT: 7.25 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

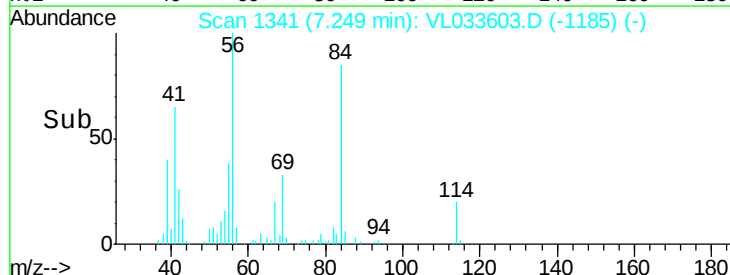
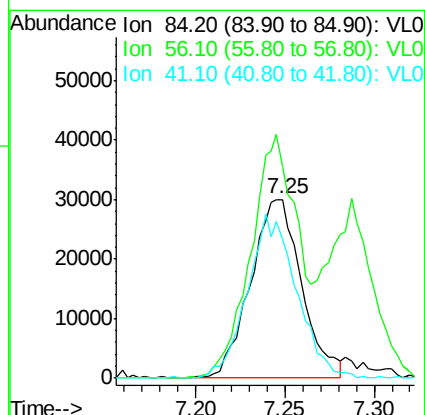
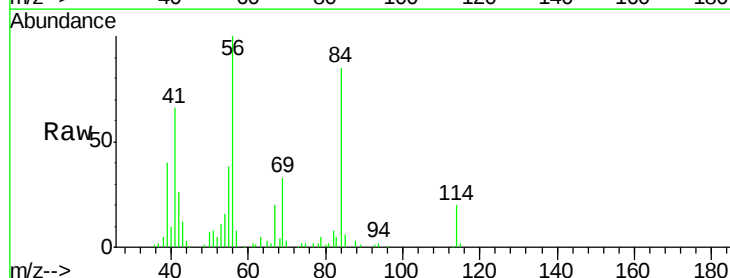
Tgt Ion: 84 Resp: 59964

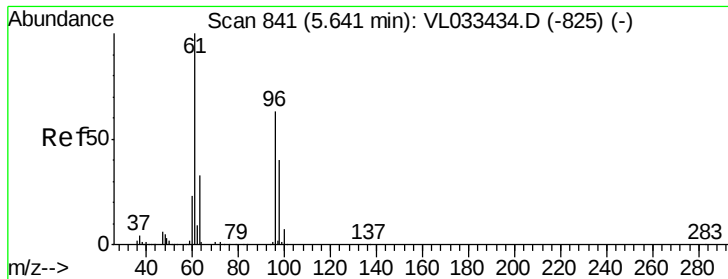
Ion Ratio Lower Upper

84 100

56 124.7 109.7 164.5

41 88.7 68.2 102.2



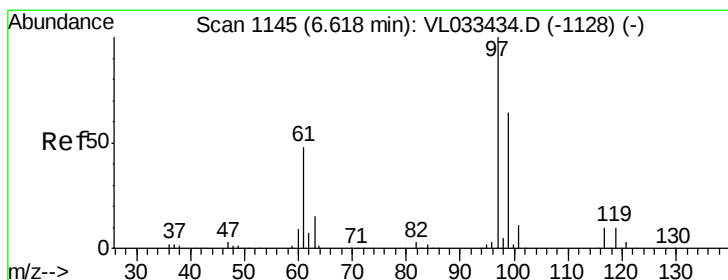
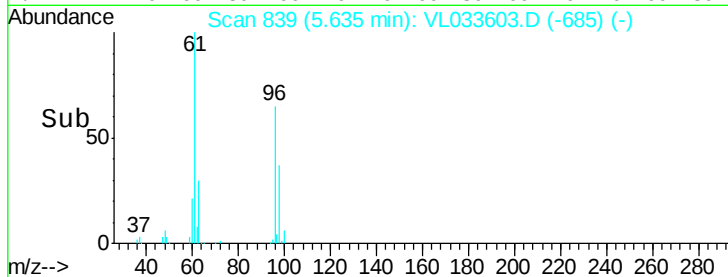
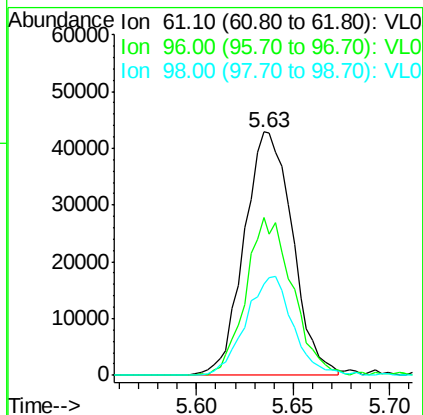
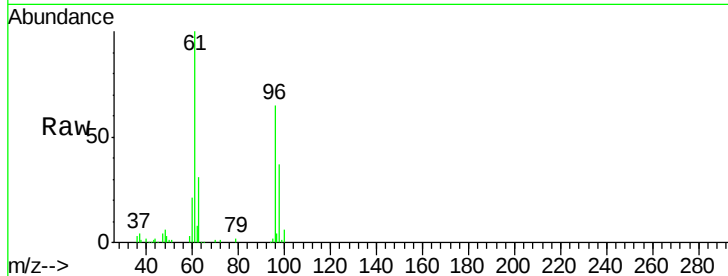


#31

cis-1,2-Dichloroethene
 Concen: 0.889 ppbv
 RT: 5.63 min Scan# 839
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

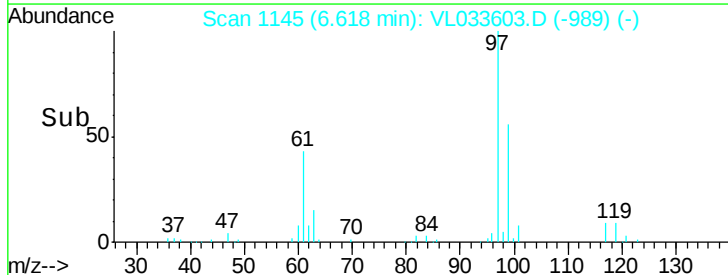
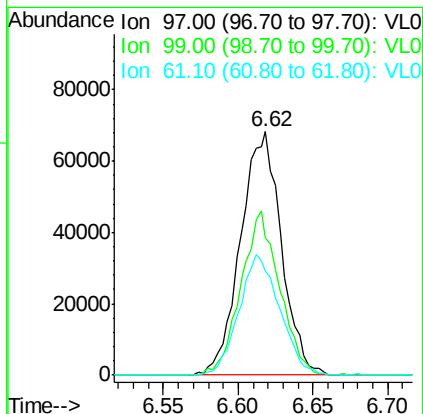
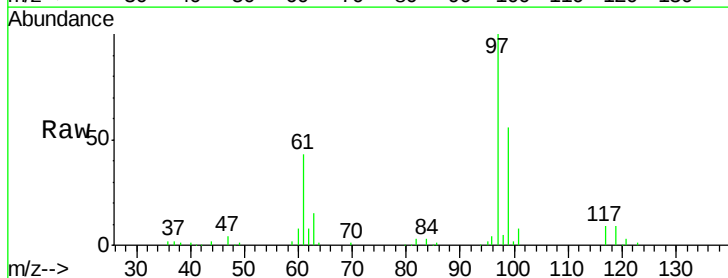
Tot Ion	61	Resp	74423
Ion	Ratio	Lower	Upper
61	100		
96	64.8	50.6	76.0
98	37.5	32.2	48.2

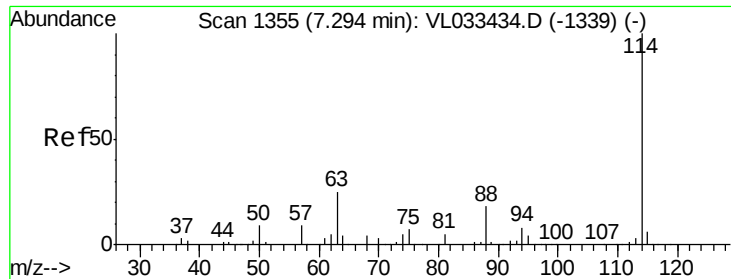


#32

1,1,1-Trichloroethane
 Concen: 0.941 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Tgt Ion	97	Resp	129288
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	49.3	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

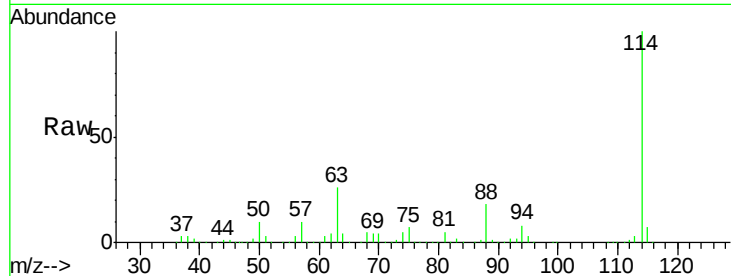
Tot Ion:114 Resp: 2073098

Ion Ratio Lower Upper

114 100

63 25.7 21.5 32.3

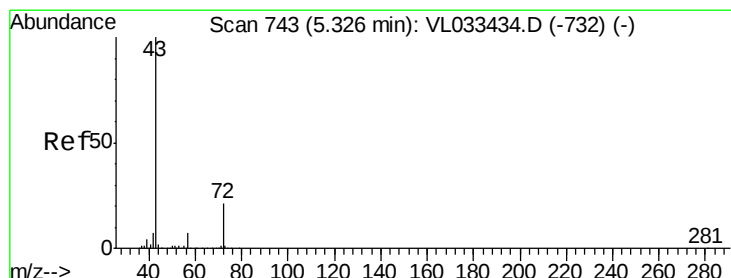
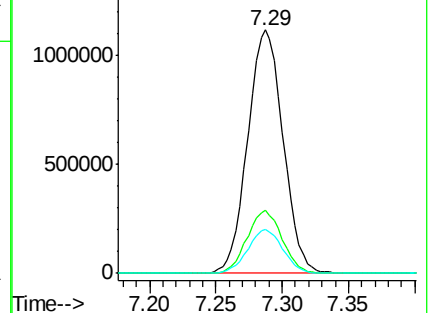
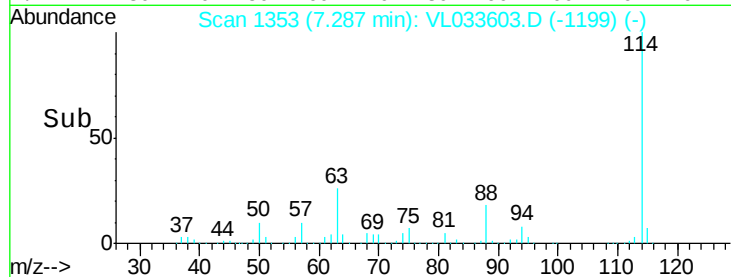
88 18.0 14.5 21.7



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: 0.879 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033603.D

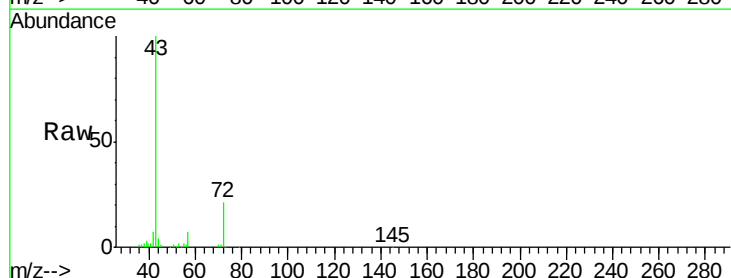
Acq: 17 Apr 2019 15:37

Tgt Ion: 43 Resp: 109540

Ion Ratio Lower Upper

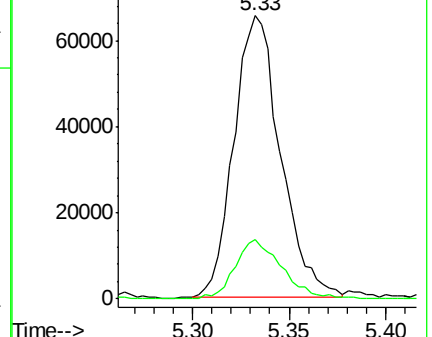
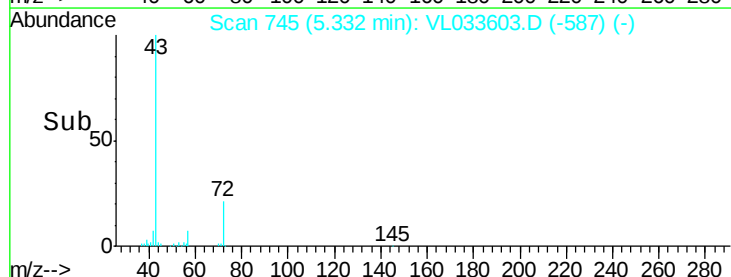
43 100

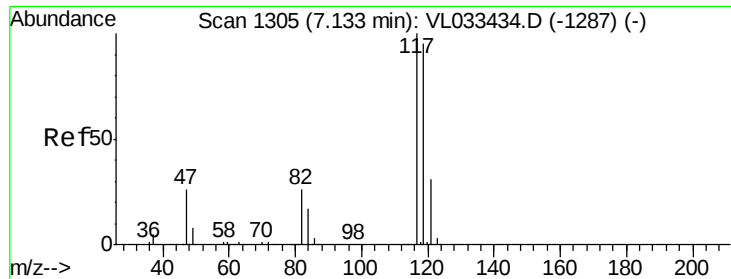
72 21.2 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

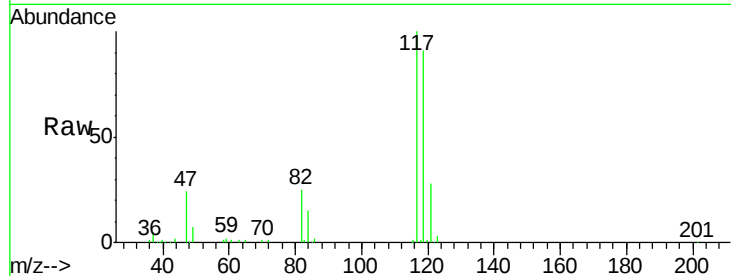




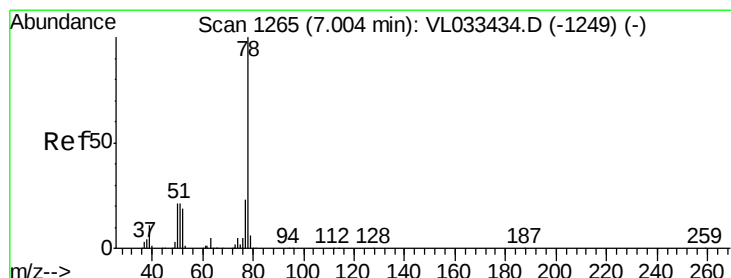
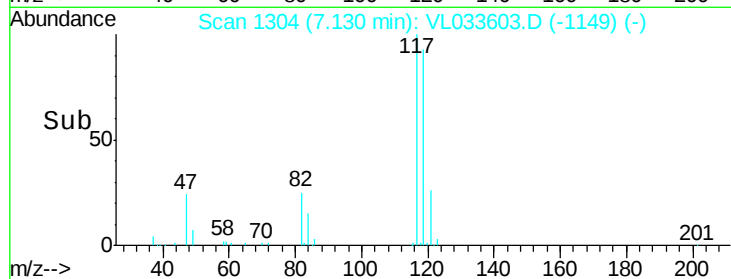
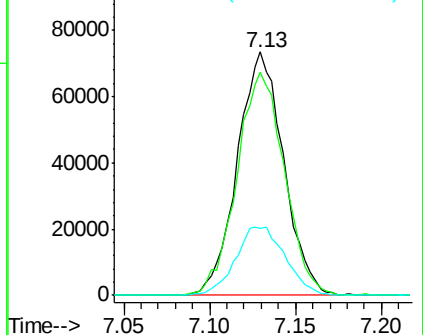
#35
Carbon Tetrachloride
Concen: 0.934 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion:117 Resp: 137181
Ion Ratio Lower Upper
117 100
119 91.4 75.8 113.8
121 27.6 24.7 37.1

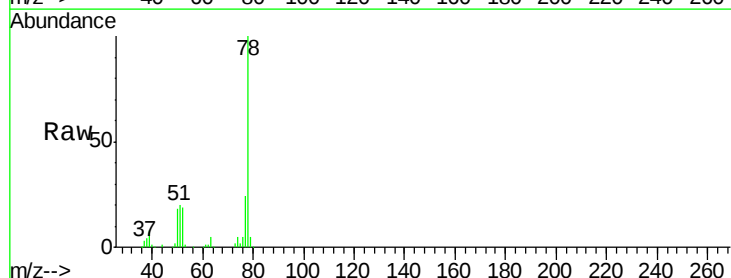


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

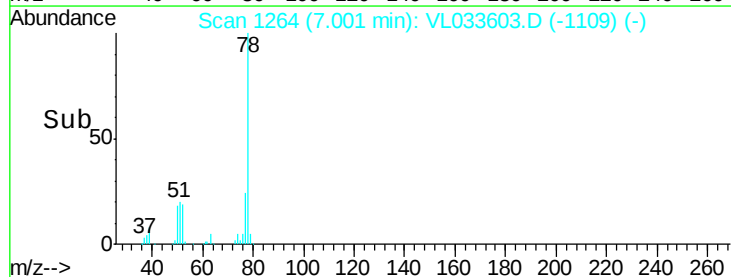
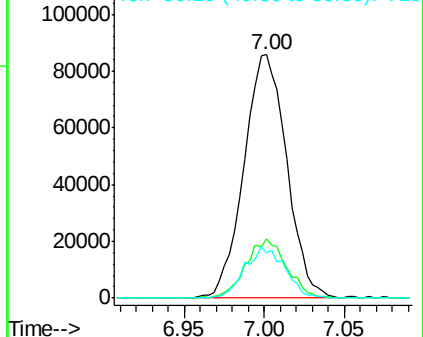


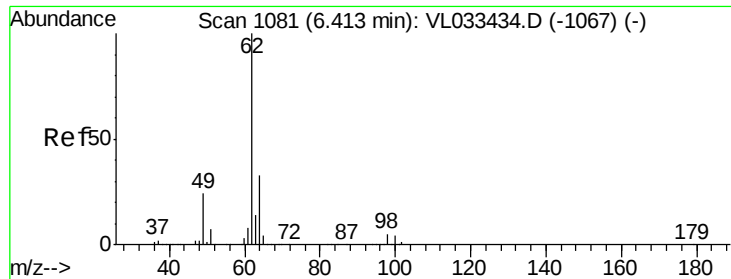
#36
Benzene
Concen: 0.900 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Tgt Ion: 78 Resp: 156574
Ion Ratio Lower Upper
78 100
77 24.2 18.1 27.1
50 18.4 16.7 25.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

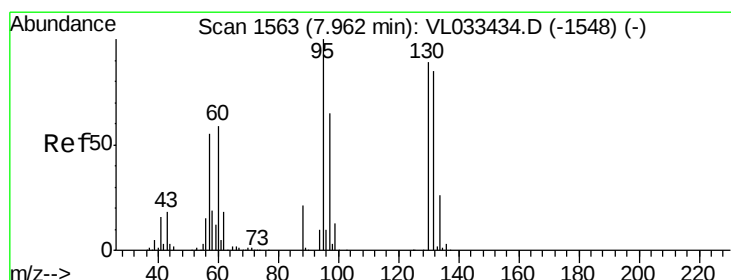
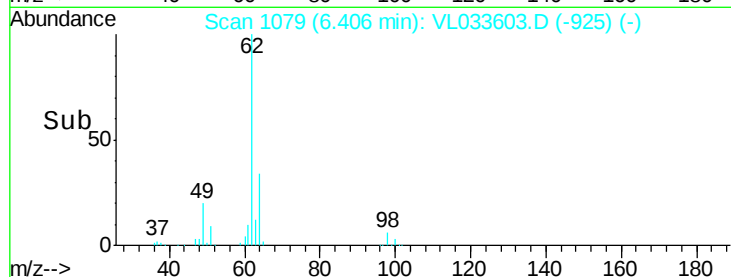
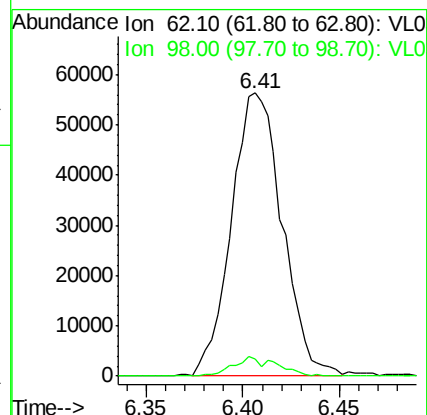
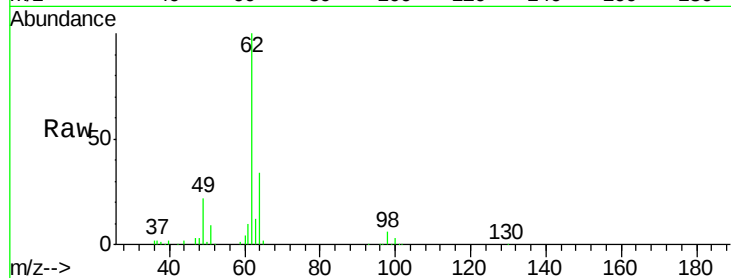




#37
 1,2-Dichloroethane
 Concen: 0.883 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

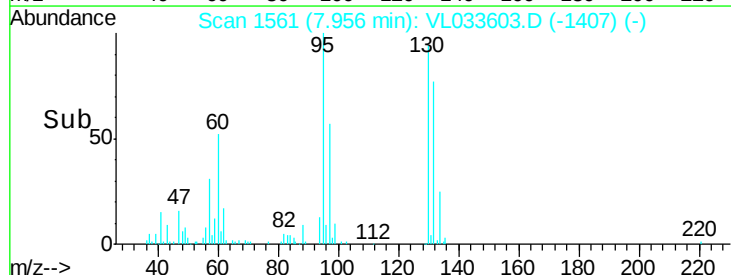
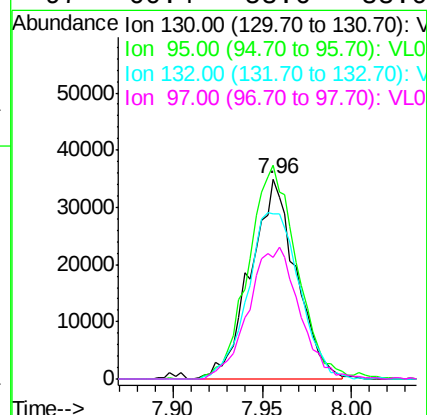
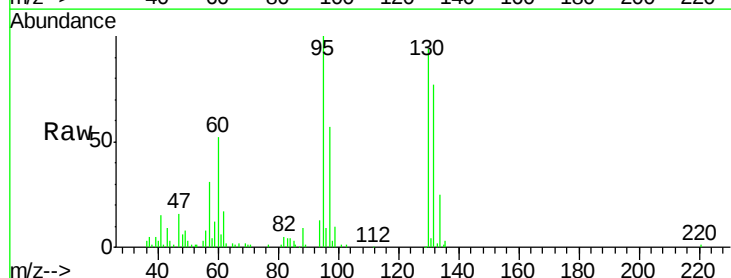
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

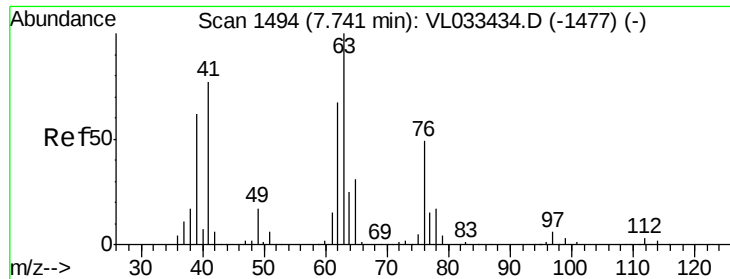
Tot Ion: 62 Resp: 102939
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.4 6.6



#38
 Trichloroethene
 Concen: 0.953 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Tgt Ion: 130 Resp: 62365
 Ion Ratio Lower Upper
 130 100
 95 106.6 89.8 134.8
 132 85.1 76.6 115.0
 97 60.4 58.6 88.0





#39

1,2-Dichloropropane

Concen: 0.840 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

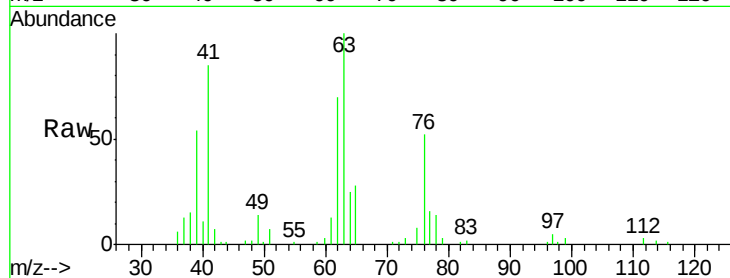
Tot Ion: 63 Resp: 57256

Ion Ratio Lower Upper

63 100

41 83.1 61.2 91.8

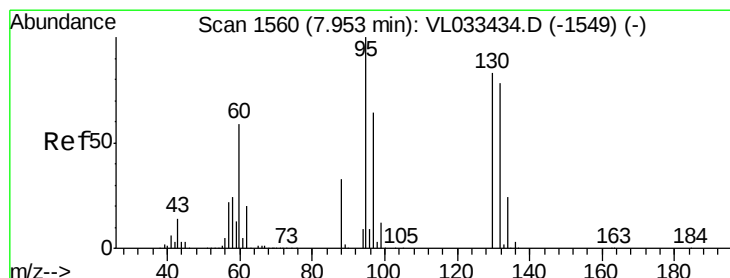
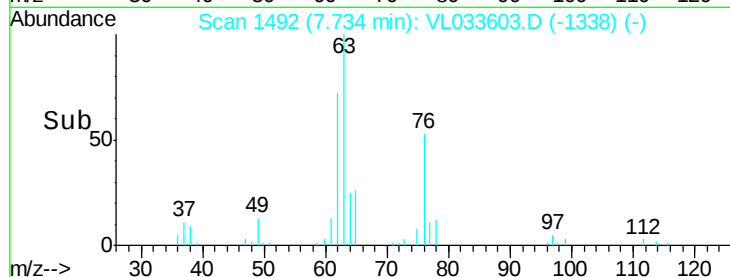
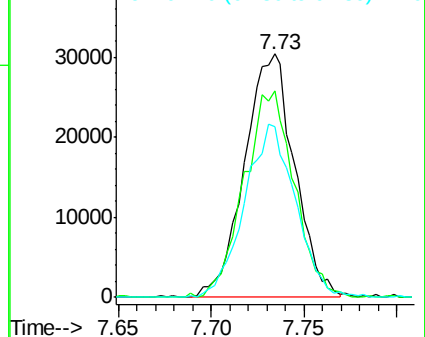
62 69.7 54.0 81.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 1.045 ppbv m

RT: 7.98 min Scan# 1569

Delta R.T. 0.03 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Tgt Ion: 88 Resp: 25399

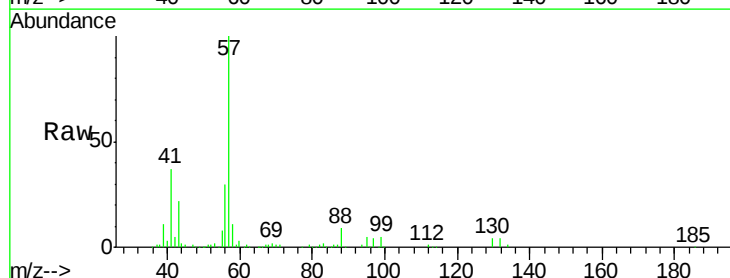
Ion Ratio Lower Upper

88 100

58 0.0 105.6 158.4#

43 0.0 216.7 325.1#

57 0.0 975.0 1462.4#

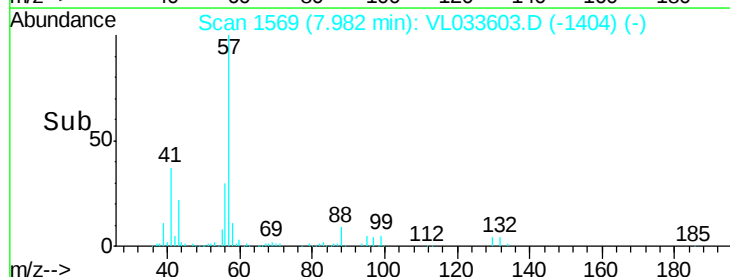
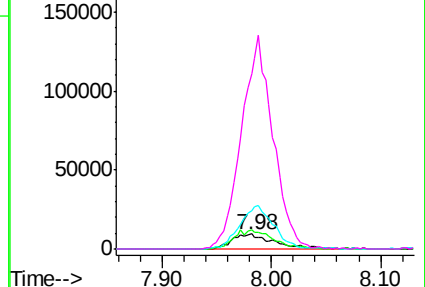


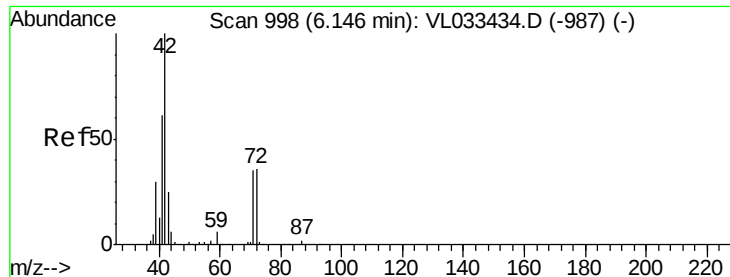
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.835 ppbv m

RT: 6.17 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

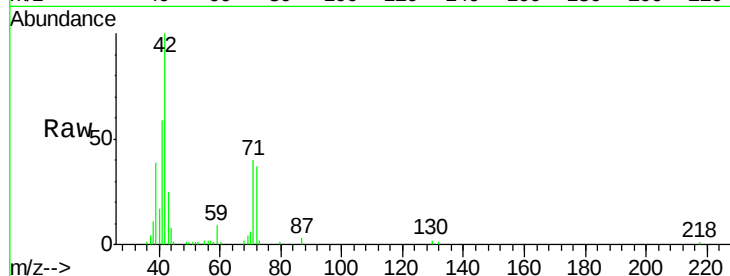
Tot Ion: 42 Resp: 57216

Ion Ratio Lower Upper

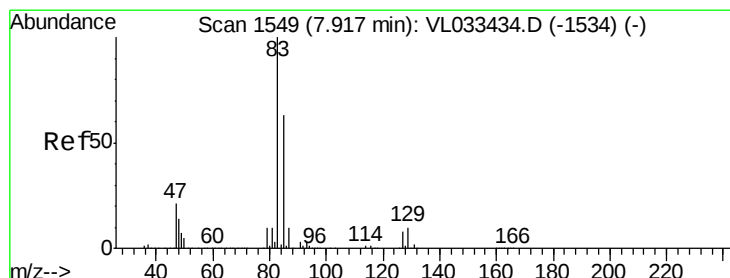
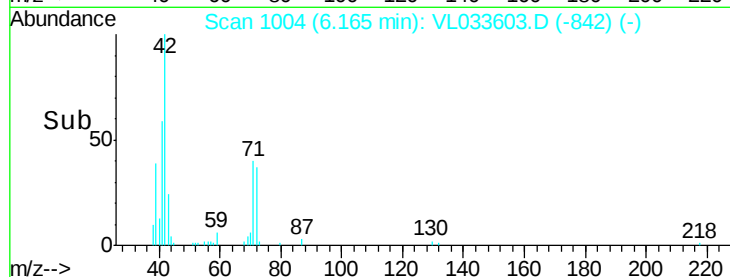
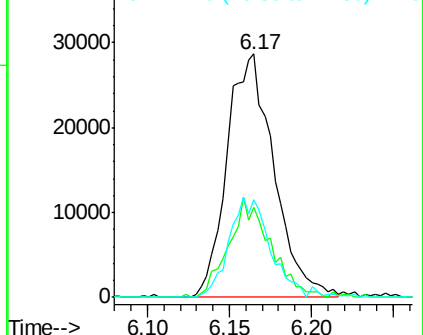
42 100

72 36.8 30.2 45.2

71 36.7 29.4 44.2



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: 0.872 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

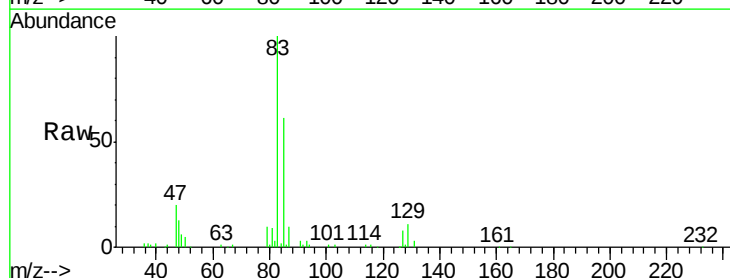
Tgt Ion: 83 Resp: 138438

Ion Ratio Lower Upper

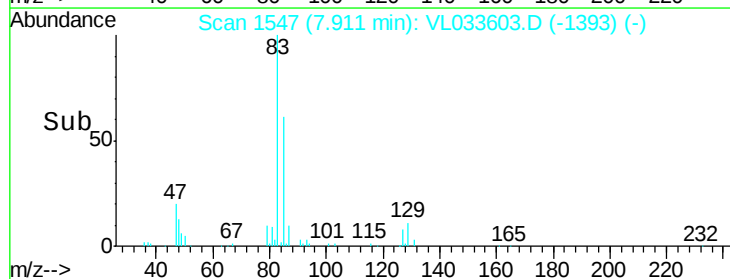
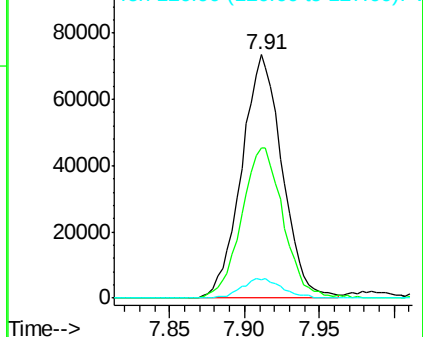
83 100

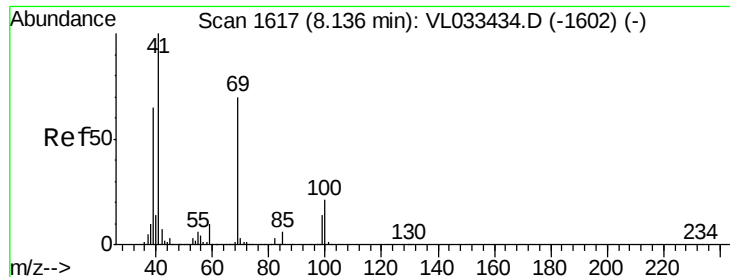
85 61.5 50.7 76.1

127 7.8 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

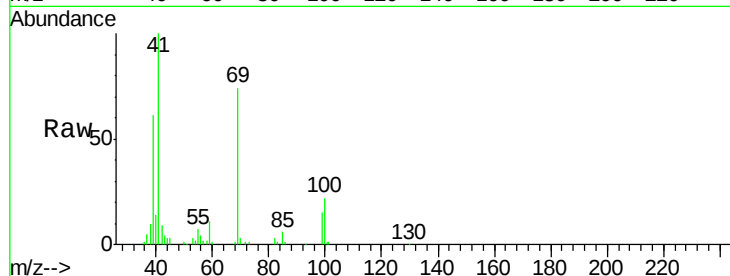




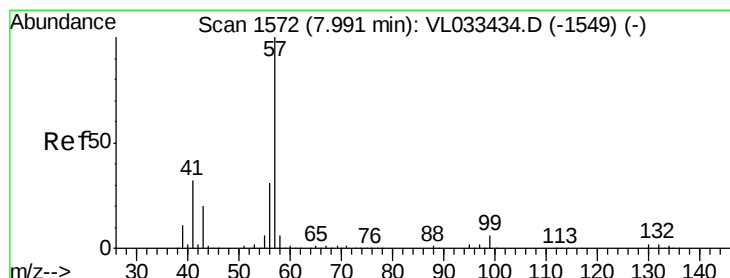
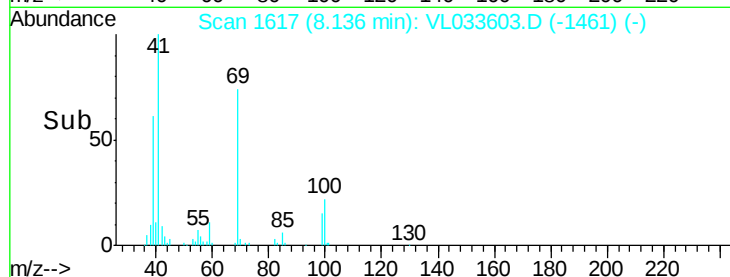
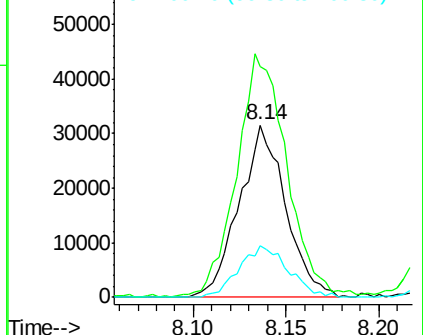
#43
Methvl Methacrilate
Concen: 0.780 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion: 69 Resp: 55096
Ion Ratio Lower Upper
69 100
41 152.8 116.6 174.8
100 31.7 24.4 36.6

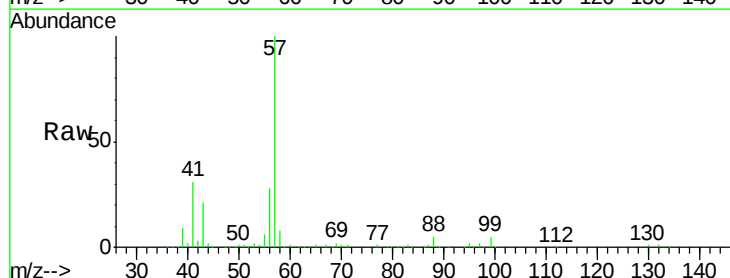


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

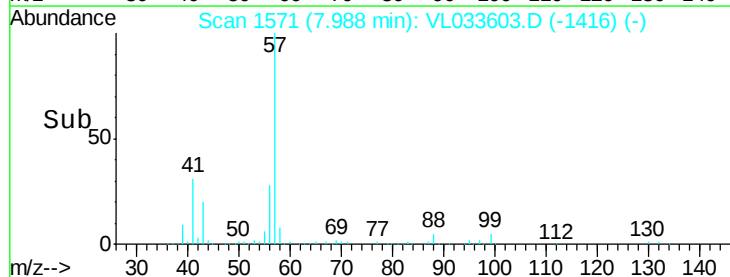
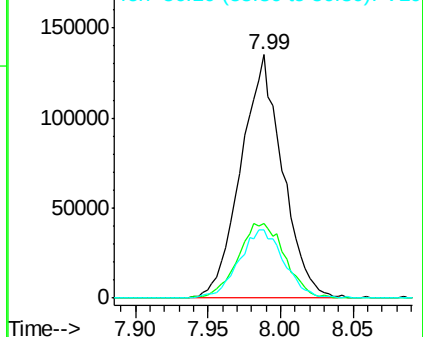


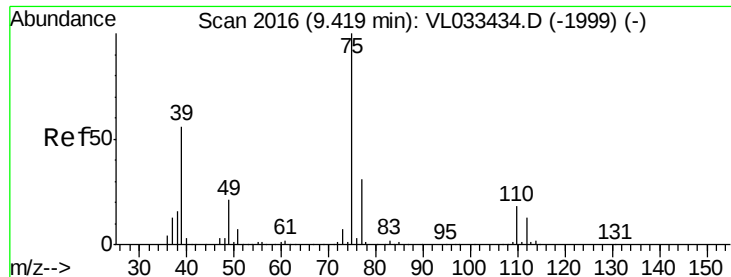
#44
2,2,4-Trimethylpentane
Concen: 0.884 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Tgt Ion: 57 Resp: 268642
Ion Ratio Lower Upper
57 100
41 35.1 26.0 39.0
56 30.6 24.6 37.0



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 0.752 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

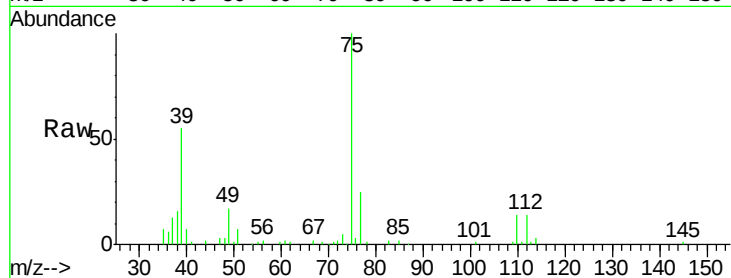
LOQ-AIR-02-QT2-2019

Tot Ion: 75 Resp: 65248

Ion Ratio Lower Upper

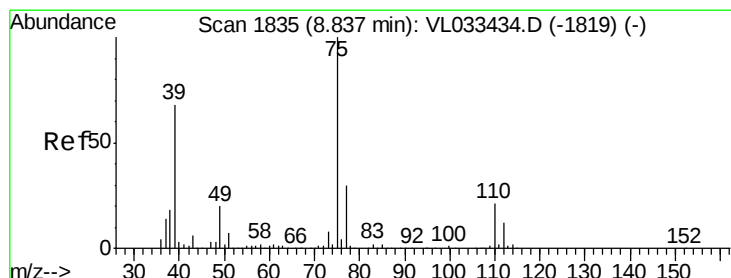
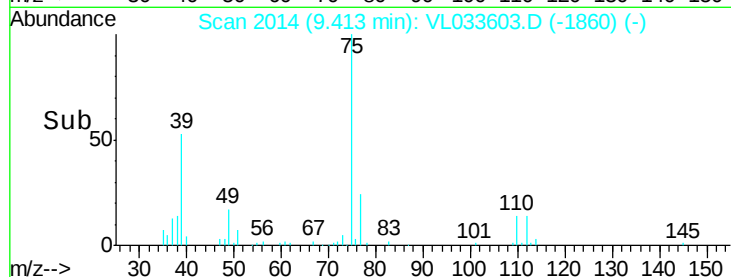
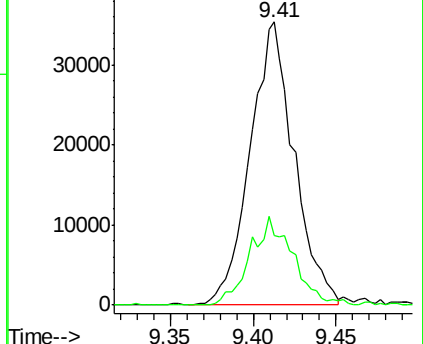
75 100

77 23.9 24.5 36.7#



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.779 ppbv m

RT: 8.83 min Scan# 1832

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

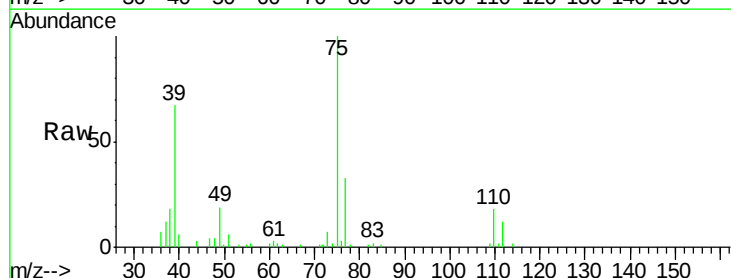
Tgt Ion: 75 Resp: 78865

Ion Ratio Lower Upper

75 100

39 67.1 54.1 81.1

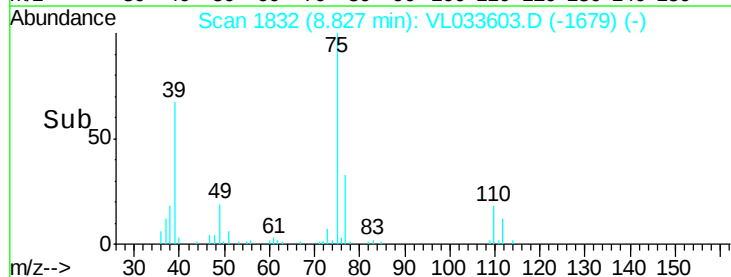
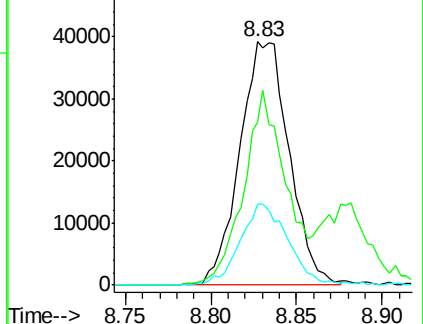
77 33.3 23.9 35.9

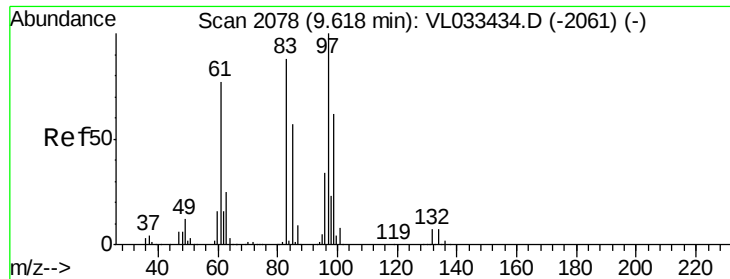


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

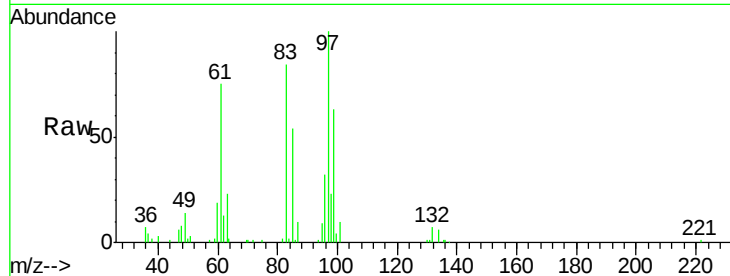




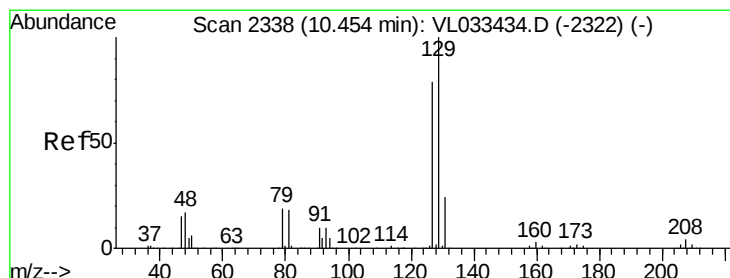
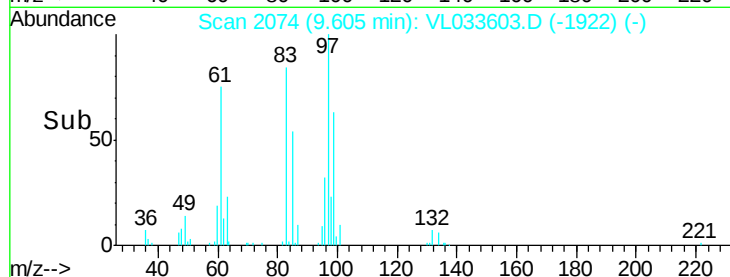
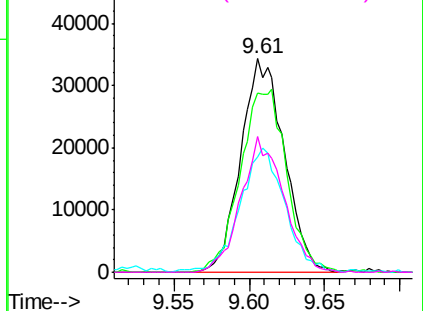
#47
 1,1,2-Trichloroethane
 Concen: 0.892 ppbv m
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion: 97 Resp: 69025
 Ion Ratio Lower Upper
 97 100
 83 84.2 70.5 105.7
 85 53.7 45.6 68.4
 99 63.4 49.4 74.0

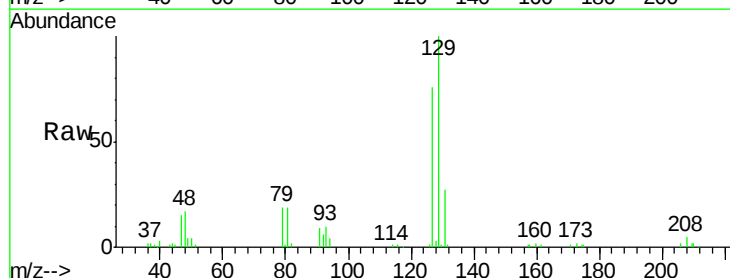


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

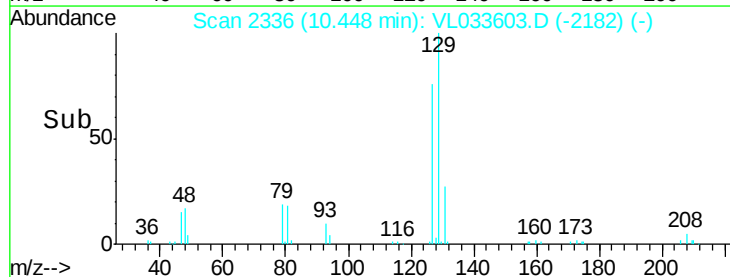
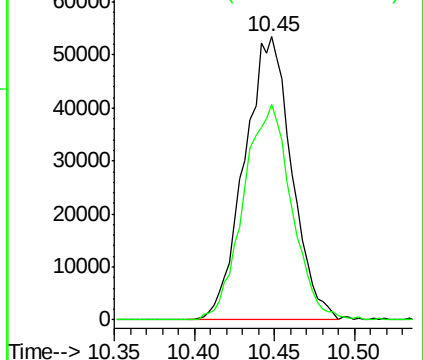


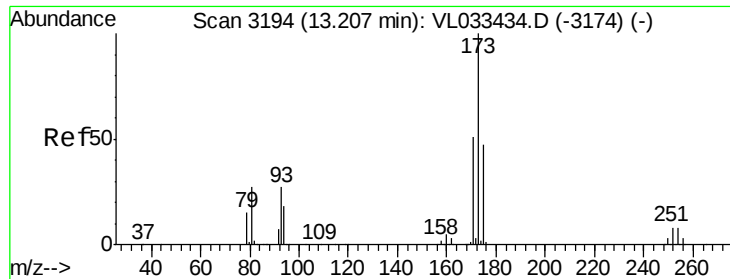
#48
 Dibromochloromethane
 Concen: 0.831 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Tgt Ion: 129 Resp: 108472
 Ion Ratio Lower Upper
 129 100
 127 77.1 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.732 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

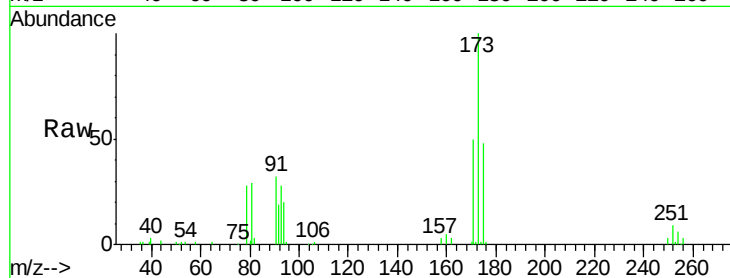
Tot Ion:173 Resp: 91290

Ion Ratio Lower Upper

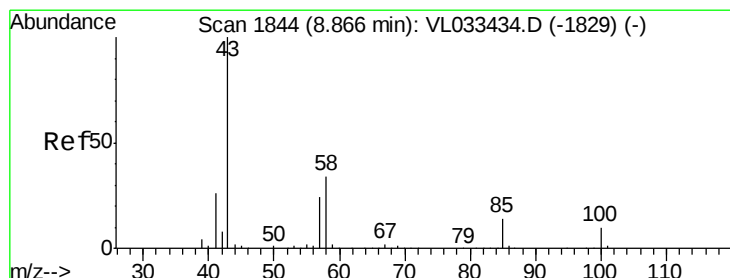
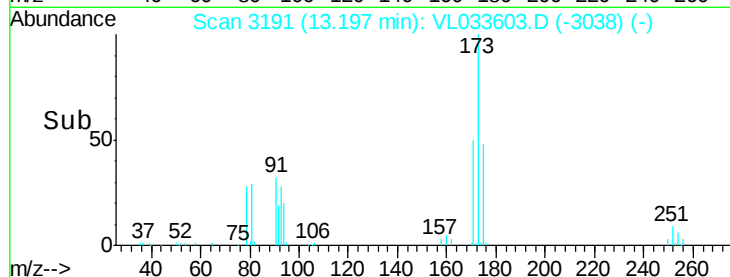
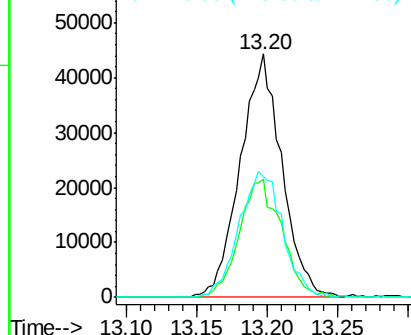
173 100

175 49.6 39.3 58.9

171 54.3 41.2 61.8



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.864 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.01 min

Lab File: VL033603.D

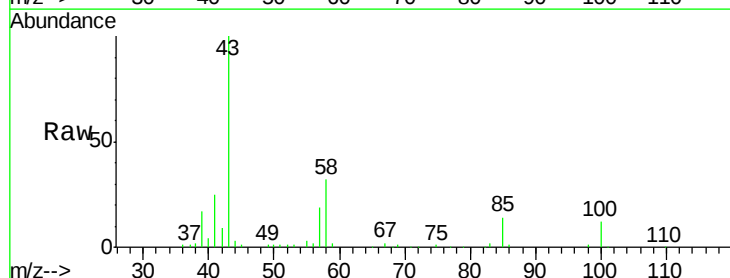
Acq: 17 Apr 2019 15:37

Tgt Ion: 43 Resp: 157668

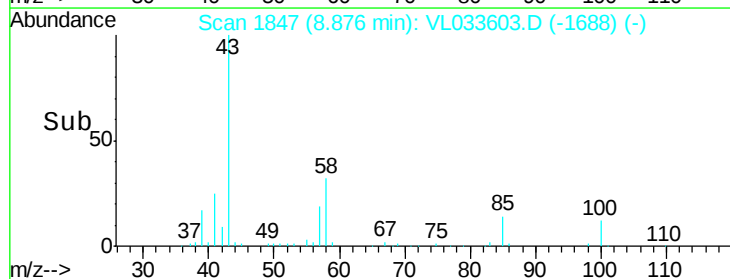
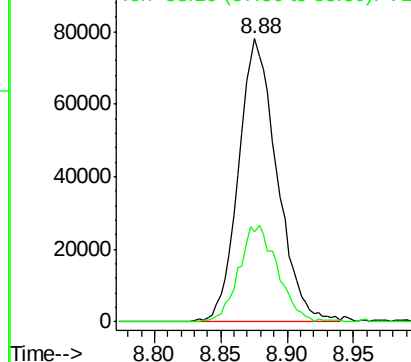
Ion Ratio Lower Upper

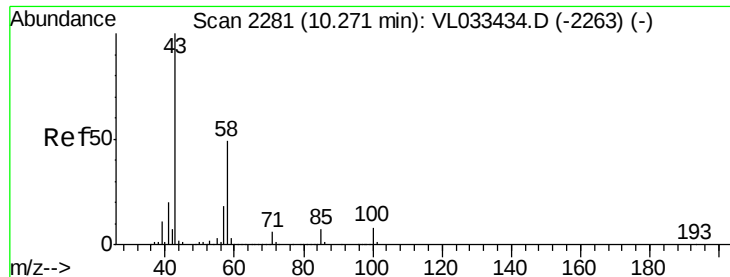
43 100

58 34.6 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.773 ppbv

RT: 10.28 min Scan# 2284

Delta R.T. 0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

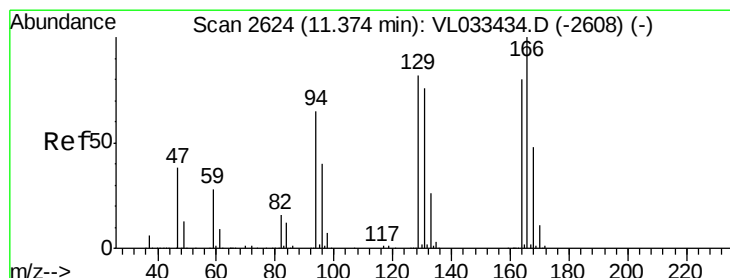
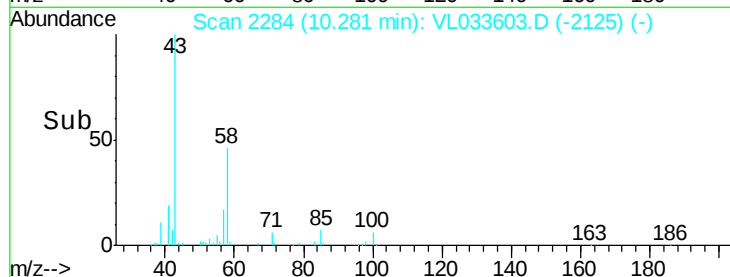
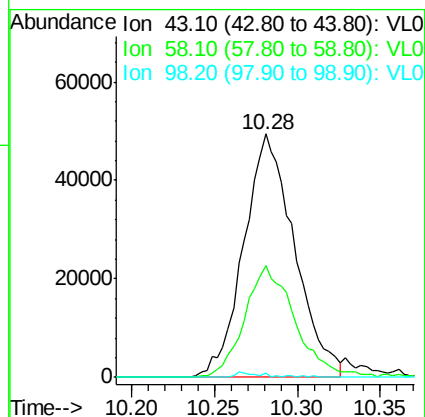
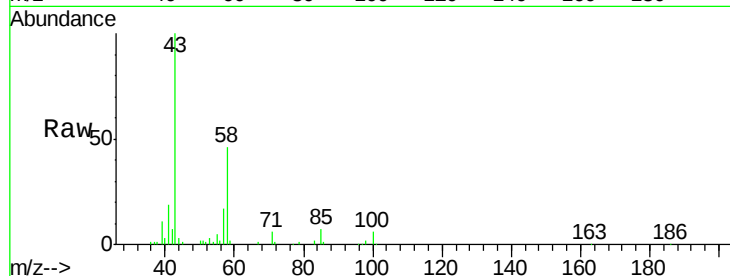
Tot Ion: 43 Resp: 105176

Ion Ratio Lower Upper

43 100

58 46.5 38.2 57.2

98 1.2 0.2 0.2#



#52

Tetrachloroethene

Concen: 0.909 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Tgt Ion:164 Resp: 59646

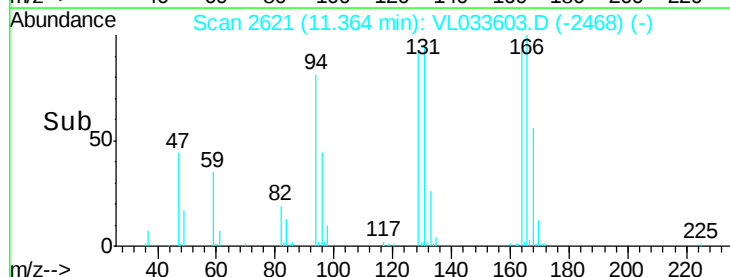
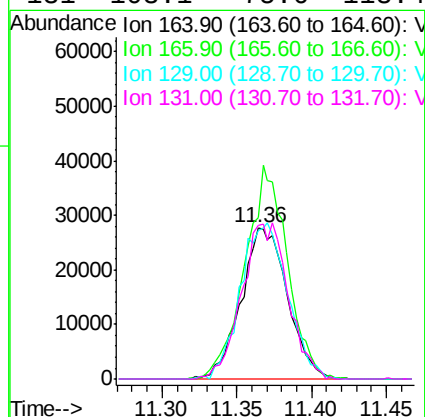
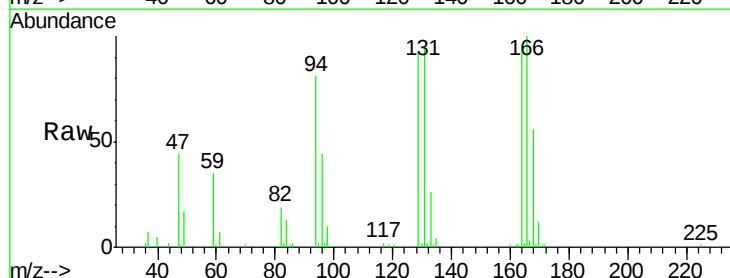
Ion Ratio Lower Upper

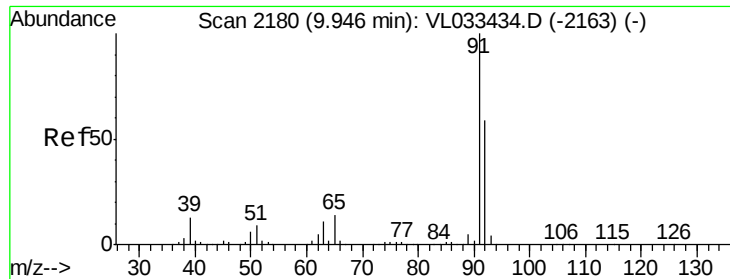
164 100

166 106.4 99.5 149.3

129 98.2 81.4 122.2

131 103.1 75.6 113.4





#53

Toluene

Concen: 0.838 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

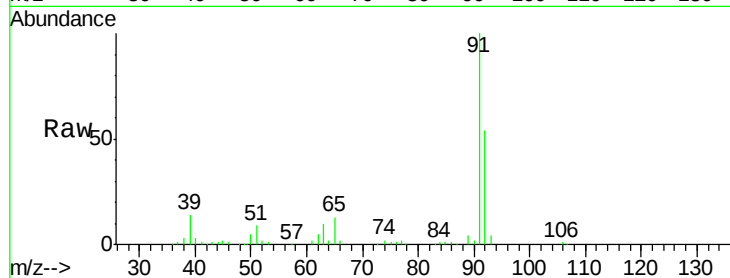
LOQ-AIR-02-QT2-2019

Tot Ion: 91 Resp: 169404

Ion Ratio Lower Upper

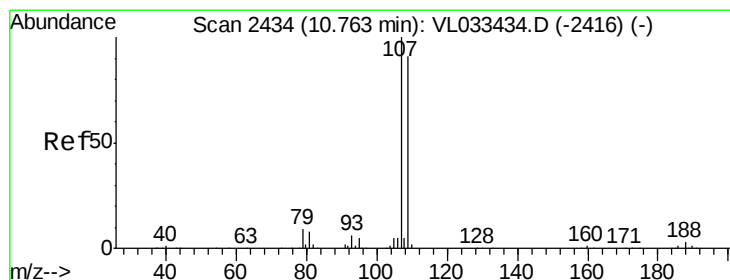
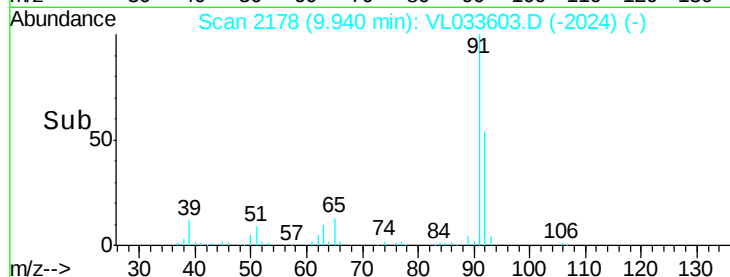
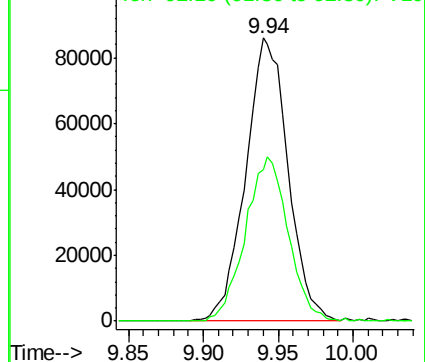
91 100

92 58.7 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.861 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033603.D

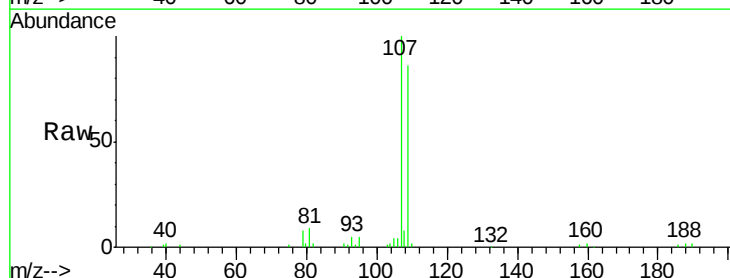
Acq: 17 Apr 2019 15:37

Tgt Ion:107 Resp: 104247

Ion Ratio Lower Upper

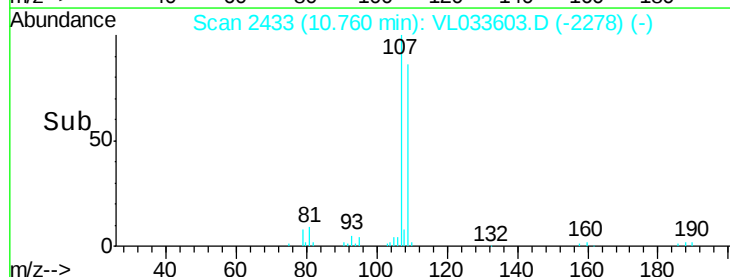
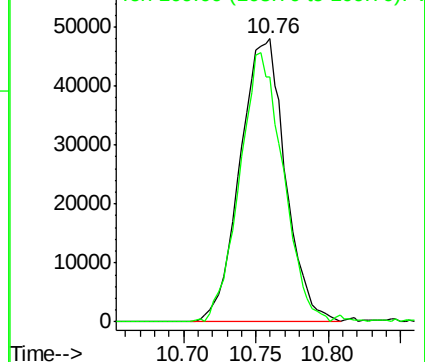
107 100

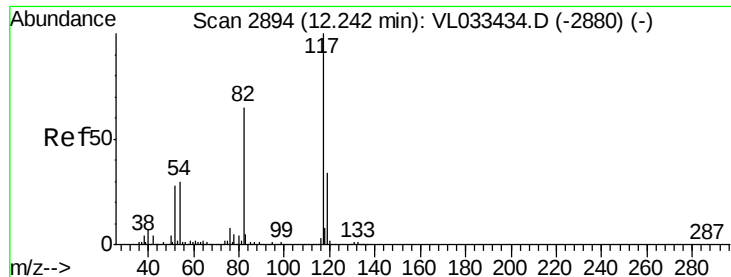
109 86.4 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

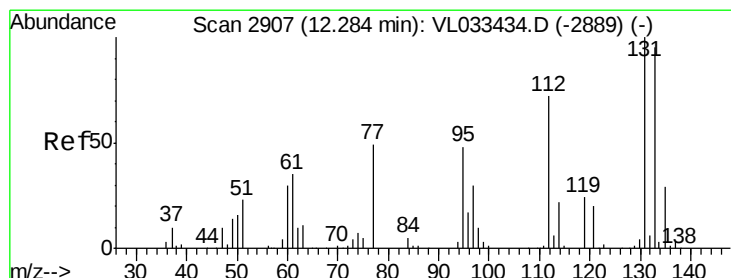
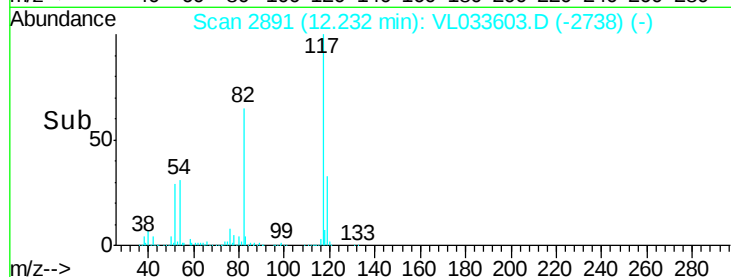
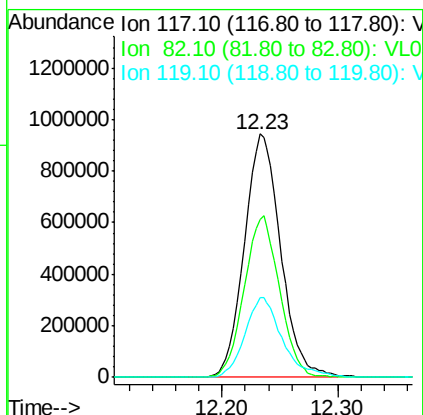
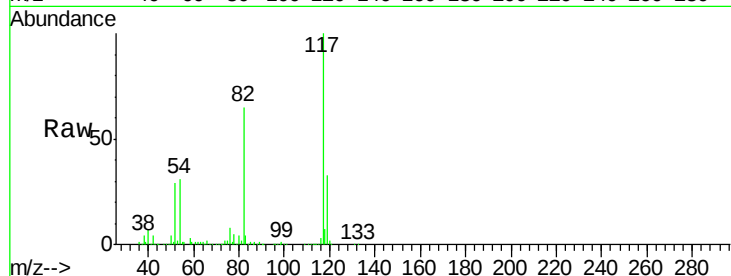




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

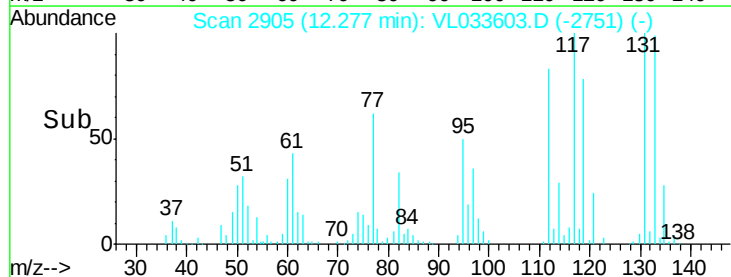
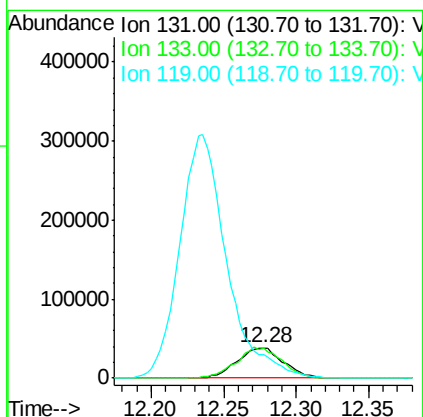
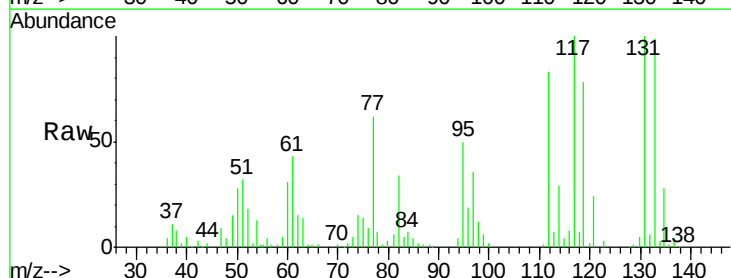
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

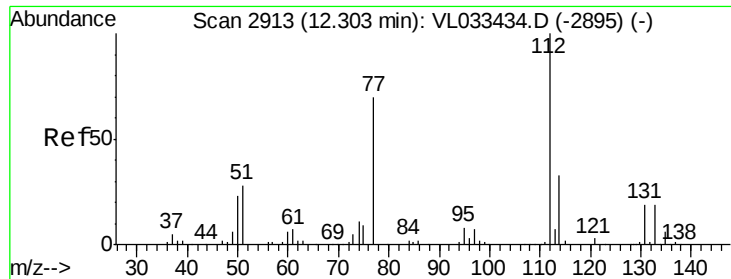
Tot Ion:117 Resp: 2060794
Ion Ratio Lower Upper
117 100
82 64.8 51.5 77.3
119 33.8 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.899 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Tgt Ion:131 Resp: 84907
Ion Ratio Lower Upper
131 100
133 99.2 76.2 114.4
119 822.1 45.0 67.6#

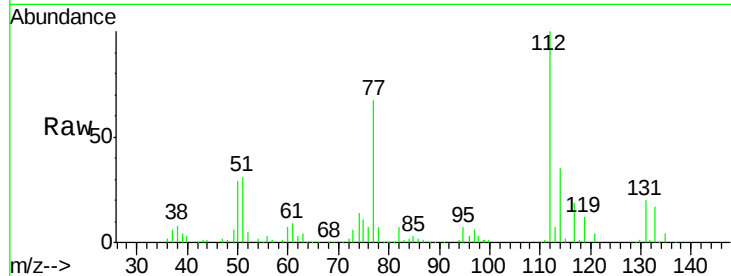




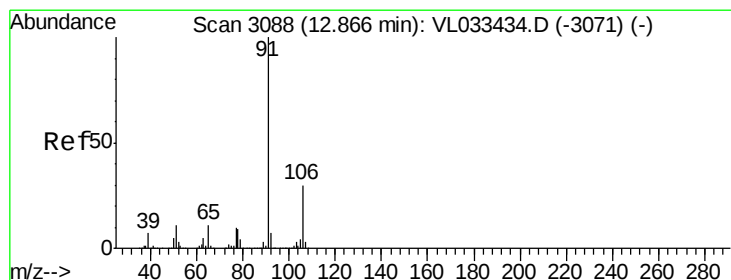
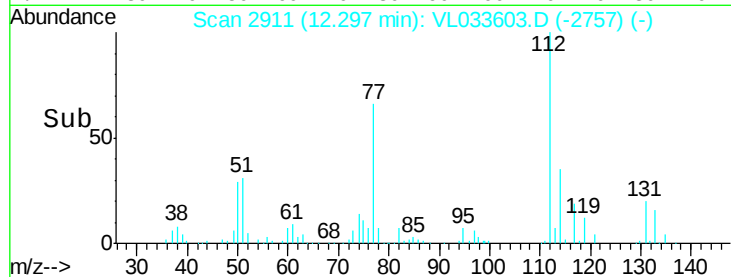
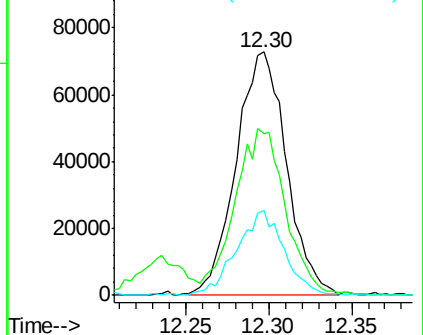
#57
Chlorobenzene
Concen: 0.961 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion:112 Resp: 153817
Ion Ratio Lower Upper
112 100
77 65.5 57.3 85.9
114 34.6 29.8 36.4

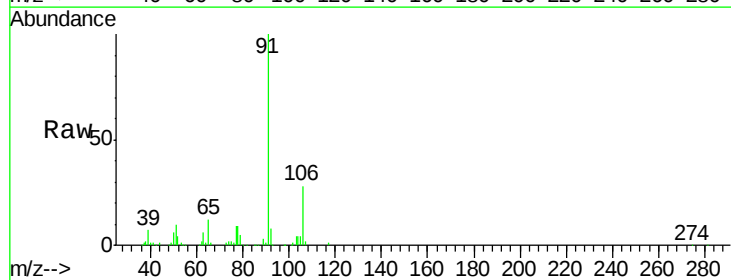


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

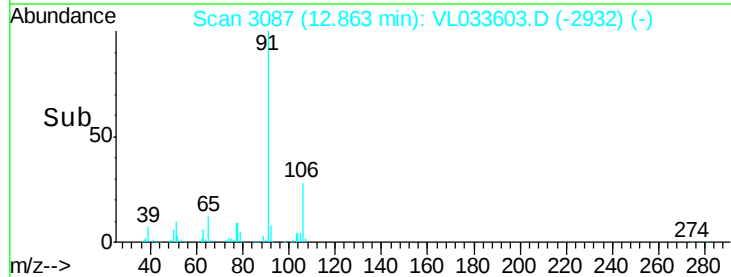
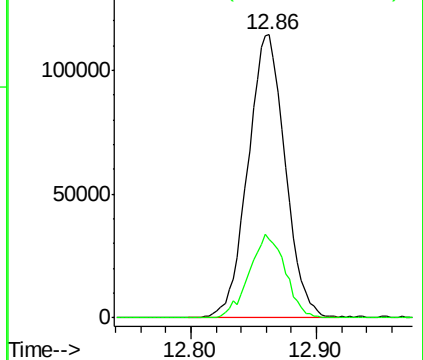


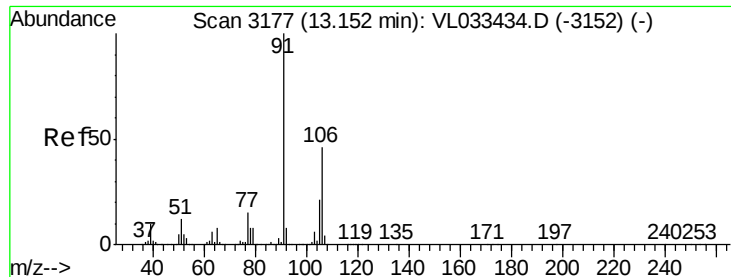
#58
Ethyl Benzene
Concen: 0.858 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033603.D
Acq: 17 Apr 2019 15:37

Tgt Ion: 91 Resp: 236248
Ion Ratio Lower Upper
91 100
106 27.6 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 1.728 ppbv m

RT: 13.14 min Scan# 3174

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

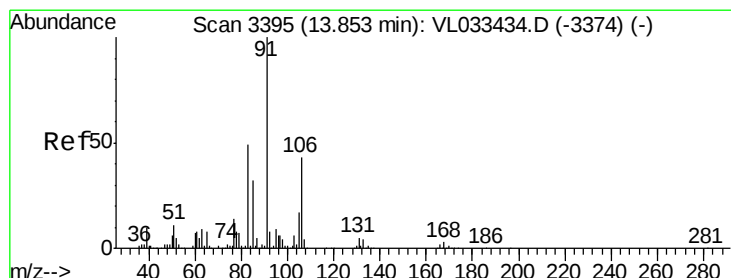
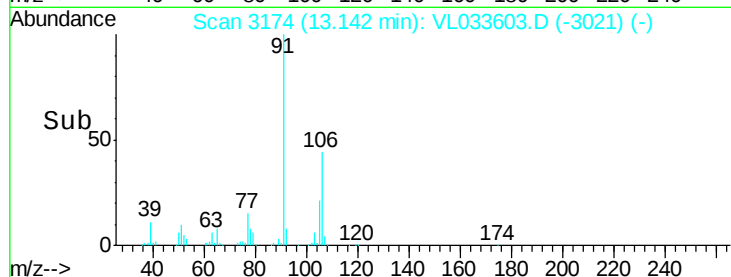
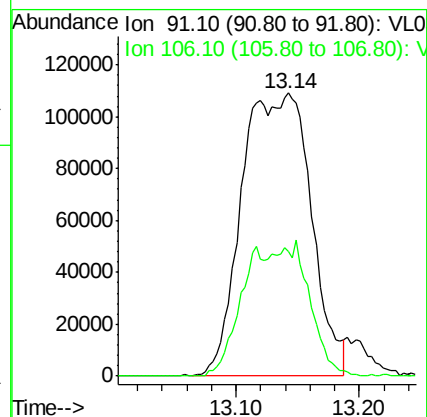
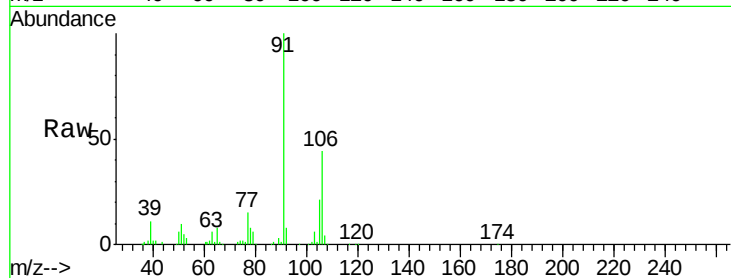
LOQ-AIR-02-QT2-2019

Tot Ion: 91 Resp: 424842

Ion Ratio Lower Upper

91 100

106 44.0 0.0 0.0#



#60

o-Xylene

Concen: 0.898 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VL033603.D

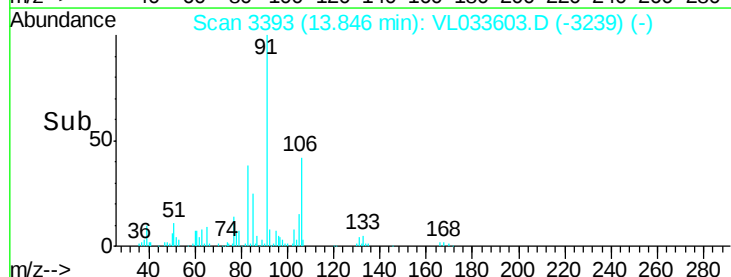
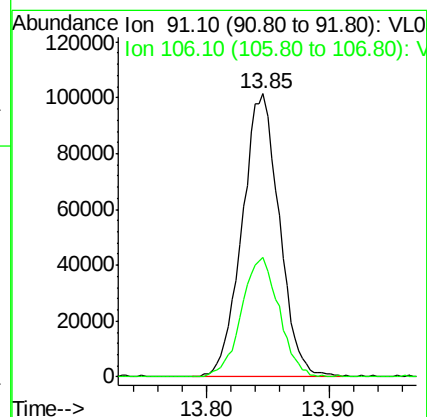
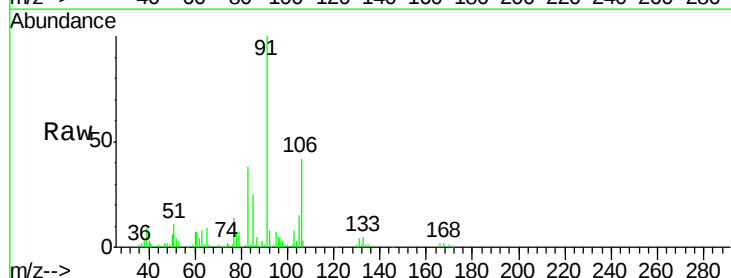
Acq: 17 Apr 2019 15:37

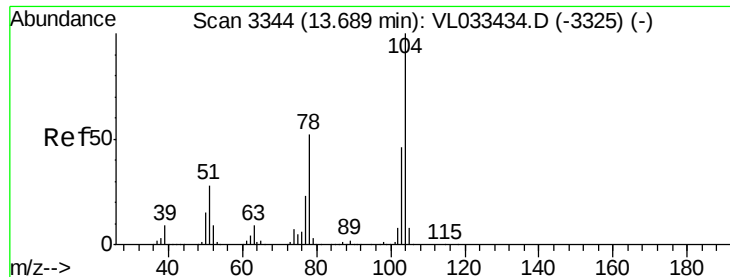
Tgt Ion: 91 Resp: 213568

Ion Ratio Lower Upper

91 100

106 42.6 21.4 64.3





#61

Stvrene

Concen: 0.819 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

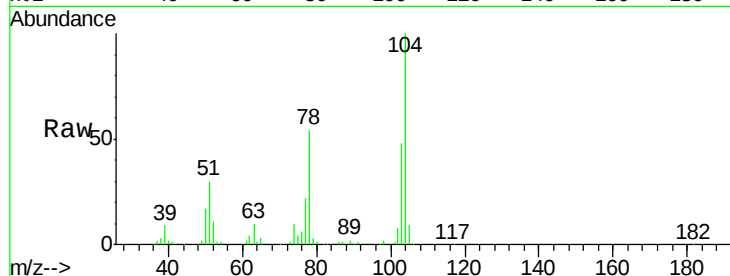
Tot Ion:104 Resp: 133563

Ion Ratio Lower Upper

104 100

78 55.0 43.2 64.8

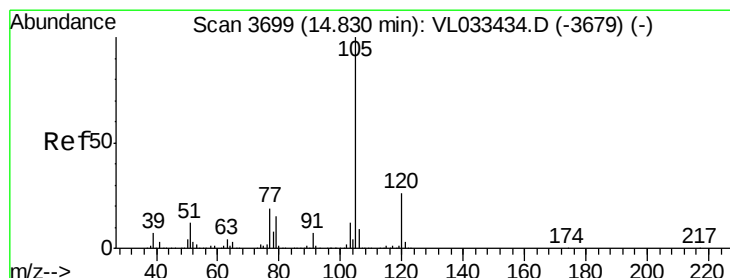
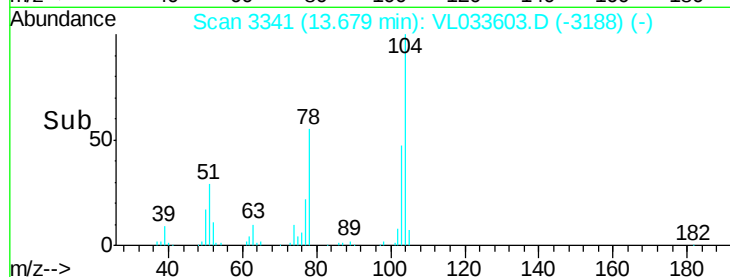
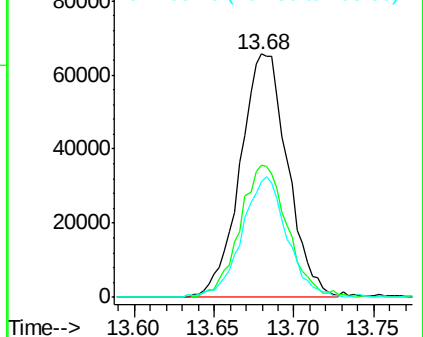
103 47.4 37.8 56.8



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: 0.881 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.01 min

Lab File: VL033603.D

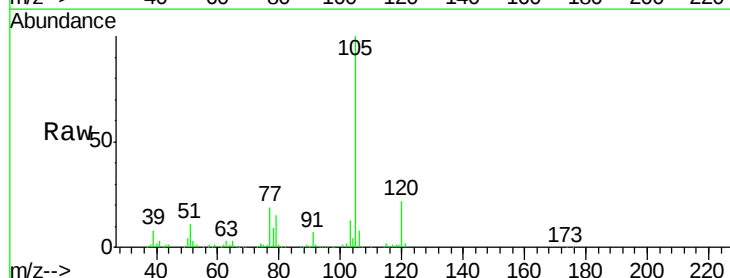
Acq: 17 Apr 2019 15:37

Tgt Ion:105 Resp: 296708

Ion Ratio Lower Upper

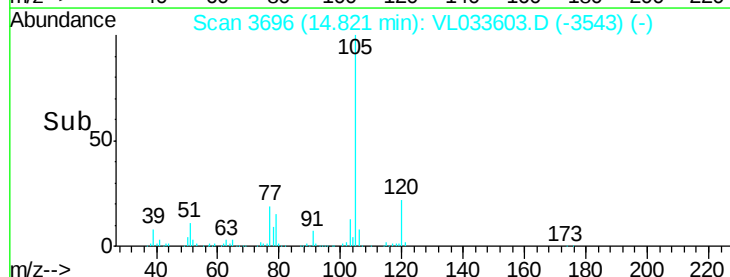
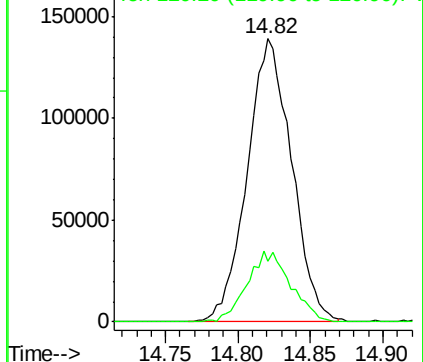
105 100

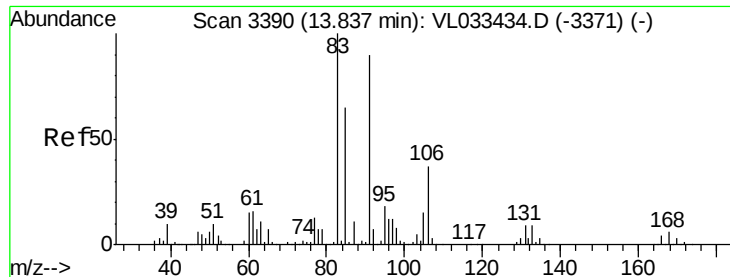
120 24.3 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

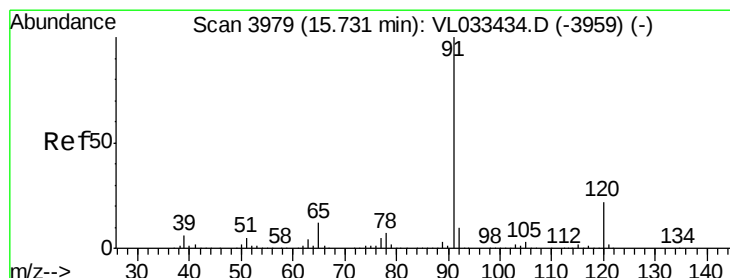
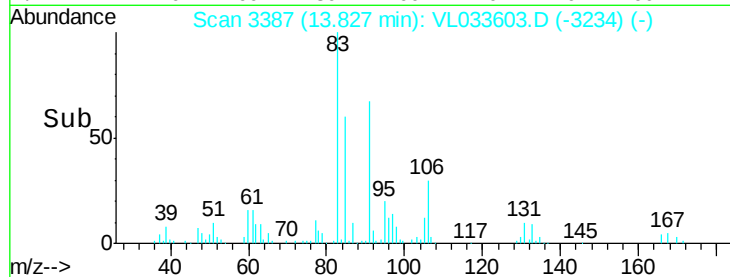
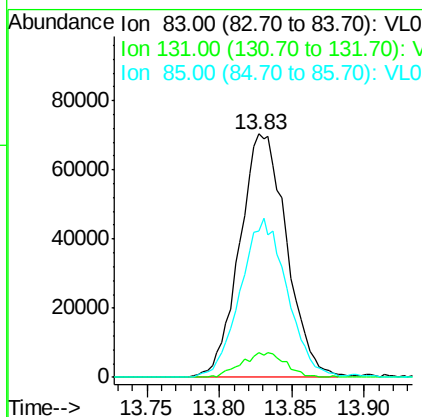
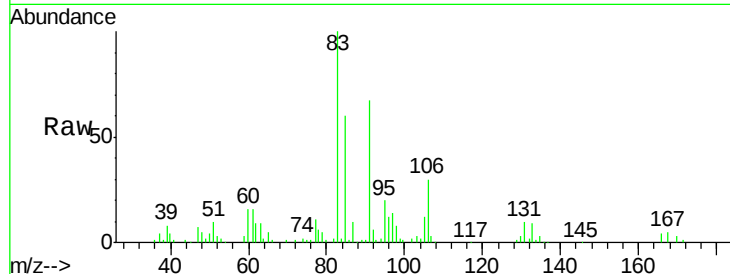




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.908 ppbv
 RT: 13.83 min Scan# 3387
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

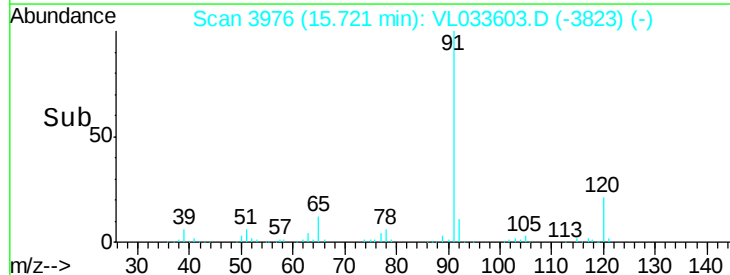
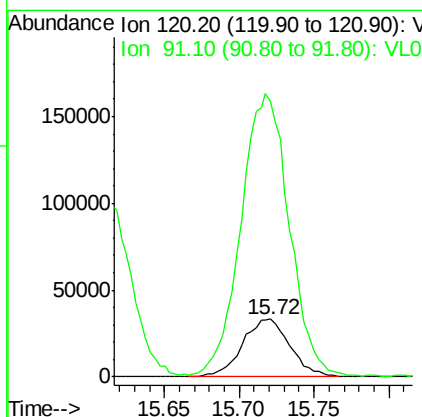
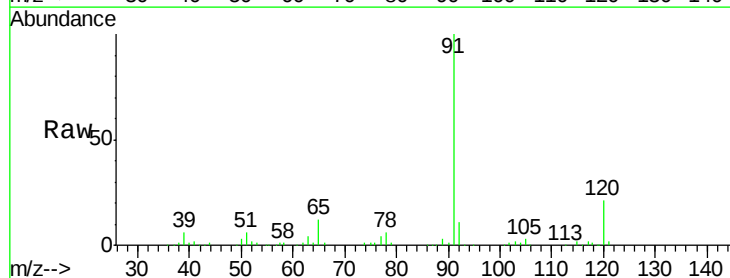
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

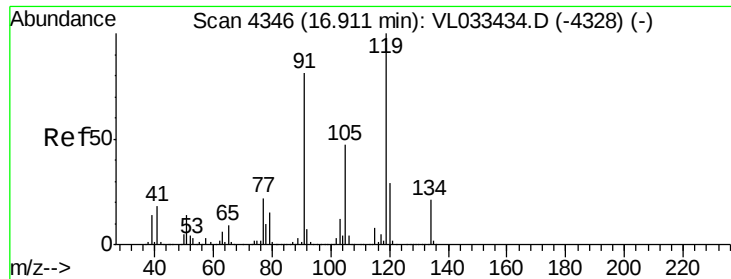
Tot Ion: 83 Resp: 158883
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.7 14.0
 85 65.2 32.7 98.1



#64
 n-propylbenzene
 Concen: 0.859 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Tgt Ion:120 Resp: 73353
 Ion Ratio Lower Upper
 120 100
 91 497.5 387.4 581.2

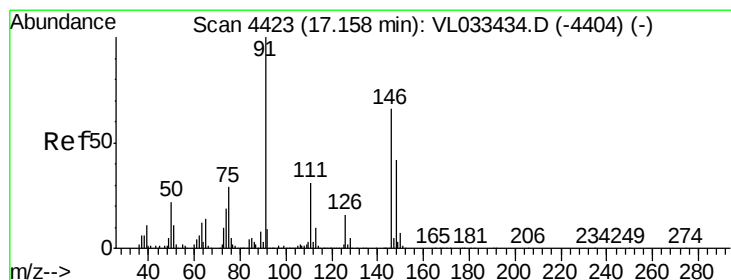
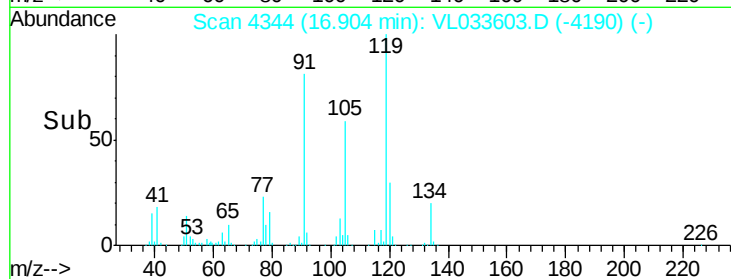
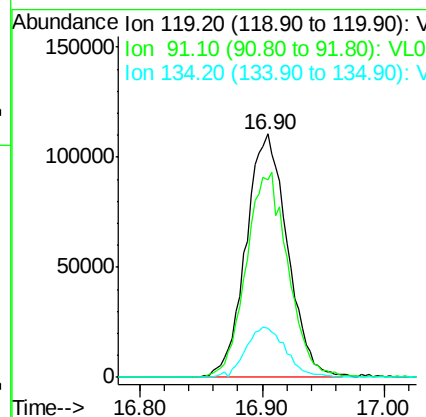
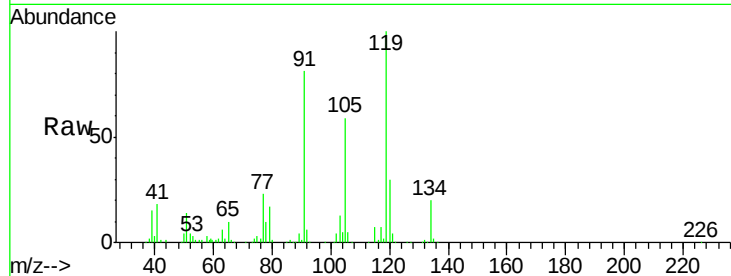




#65
 tert-Butylbenzene
 Concen: 0.875 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

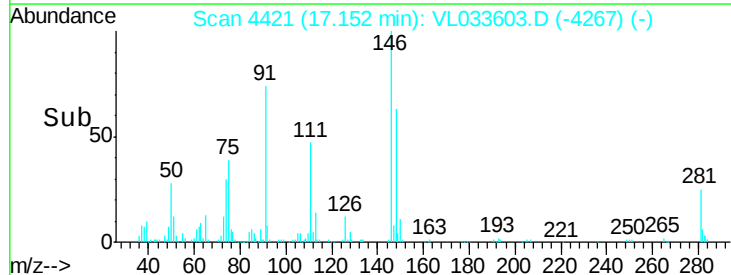
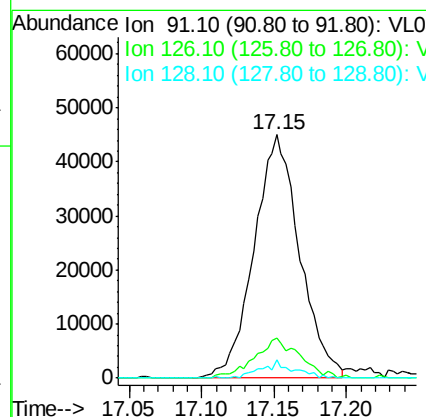
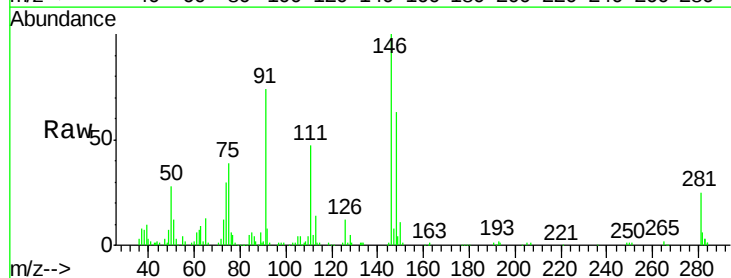
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

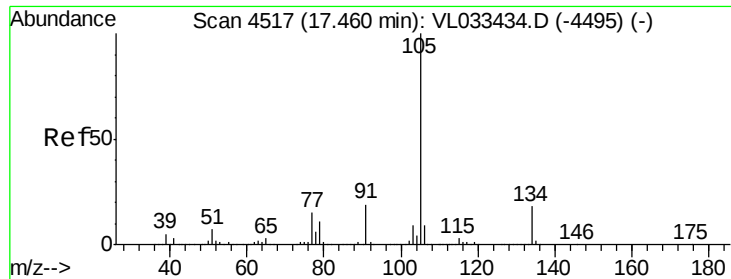
Tot Ion:119 Resp: 259509
 Ion Ratio Lower Upper
 119 100
 91 85.3 66.4 99.6
 134 19.9 15.5 23.3



#66
 Benzyl Chloride
 Concen: 0.714 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Tgt Ion: 91 Resp: 98466
 Ion Ratio Lower Upper
 91 100
 126 16.4 13.0 19.6
 128 5.2 4.2 6.2





#67

sec-Butylbenzene

Concen: 0.874 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

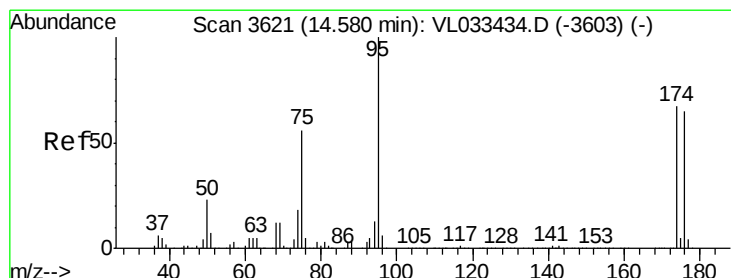
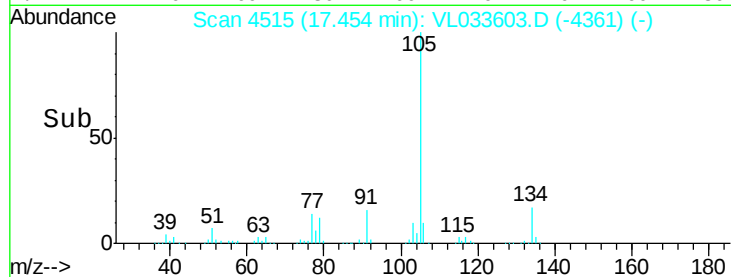
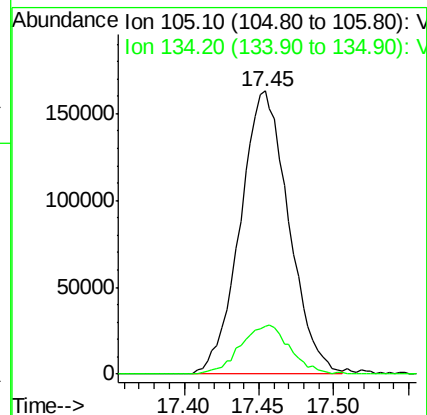
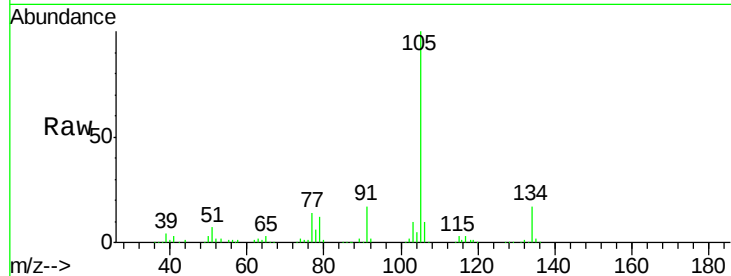
LOQ-AIR-02-QT2-2019

Tot Ion:105 Resp: 368482

Ion Ratio Lower Upper

105 100

134 17.8 14.6 21.8



#68

1-Bromo-4-Fluorobenzene

Concen: 10.168 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

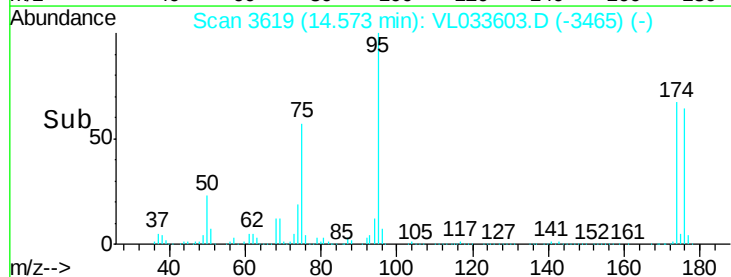
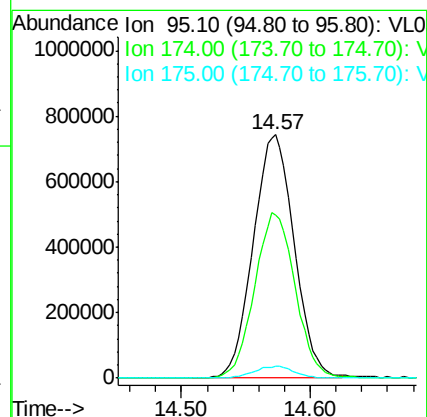
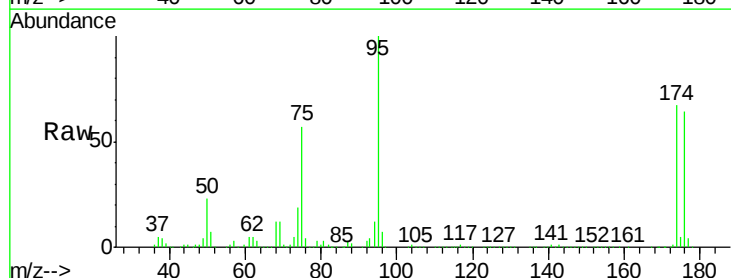
Tgt Ion: 95 Resp: 1642660

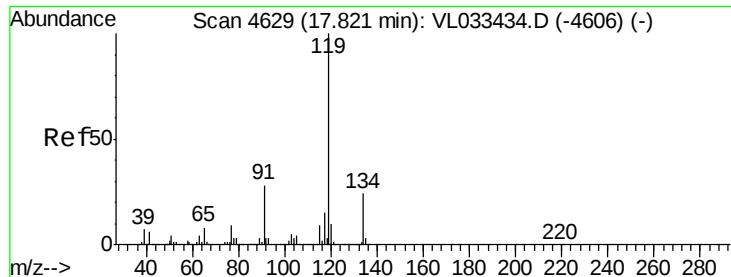
Ion Ratio Lower Upper

95 100

174 67.6 52.9 79.3

175 4.8 3.8 5.6

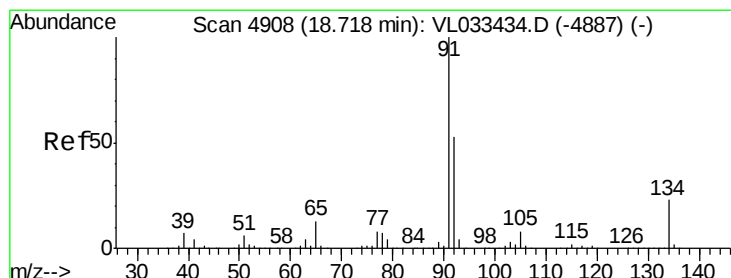
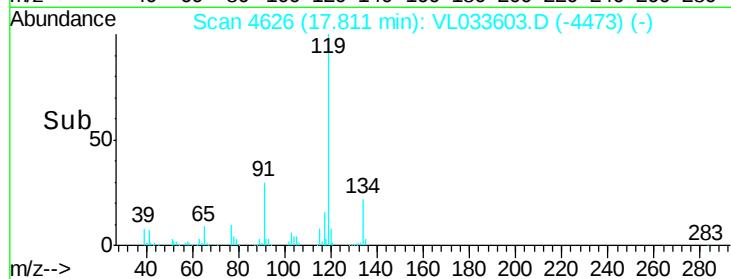
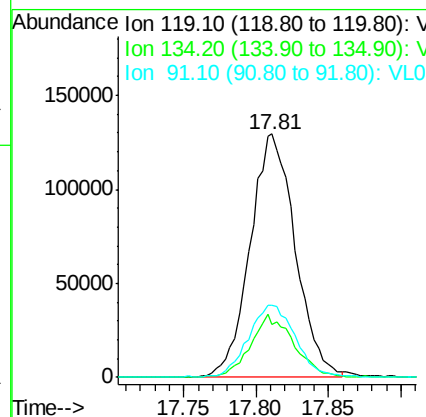
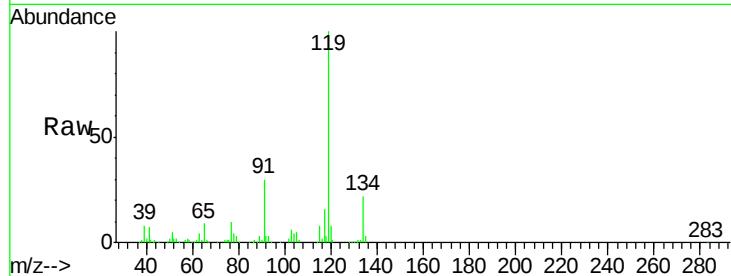




#69
 p-Isopropyltoluene
 Concen: 0.817 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

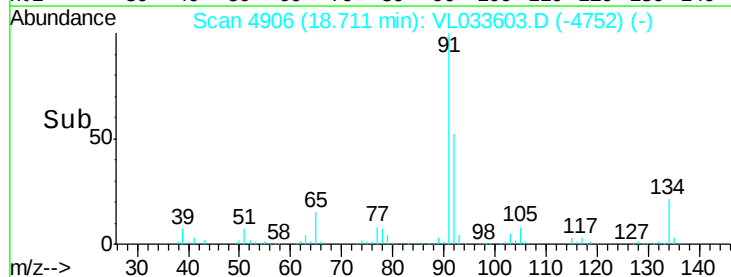
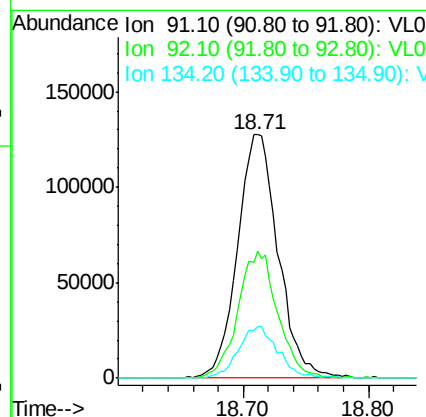
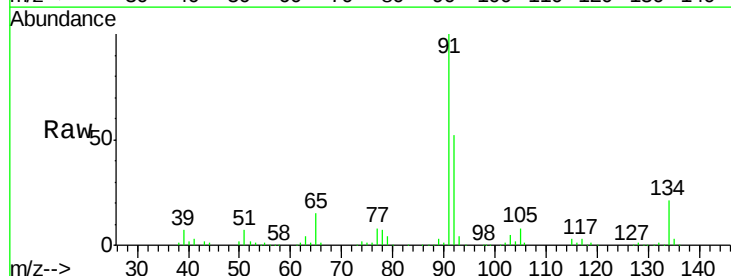
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

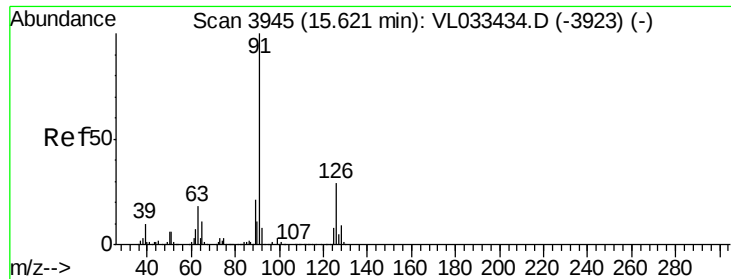
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.7	19.9	29.9
91	31.5	23.4	35.0



#70
 n-Butylbenzene
 Concen: 0.779 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	42.6	64.0
134	21.2	17.5	26.3

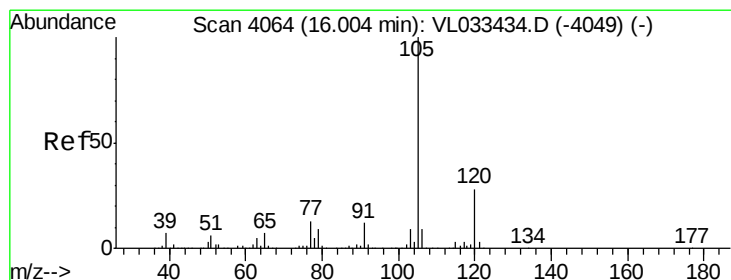
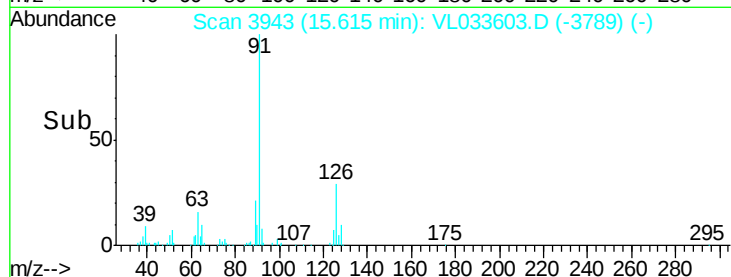
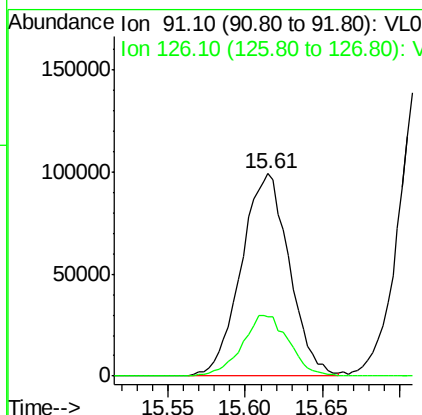
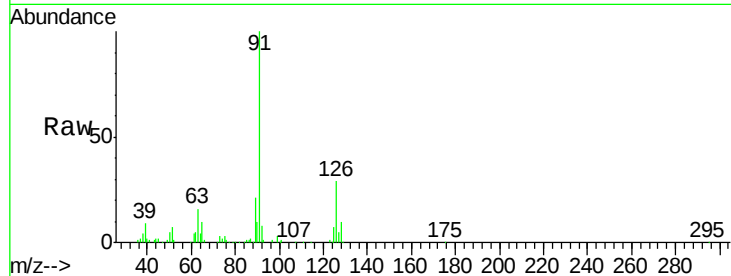




#71
 2-Chlorotoluene
 Concen: 0.837 ppbv
 RT: 15.61 min Scan# 3943
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

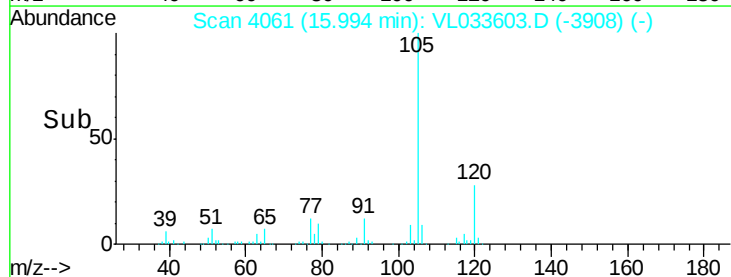
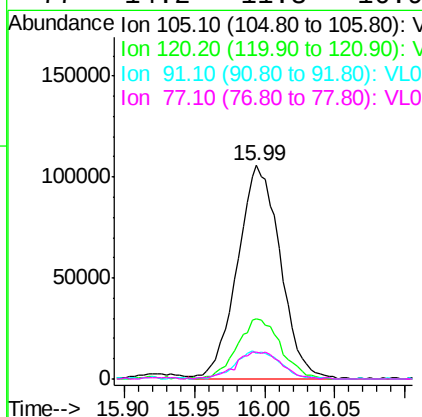
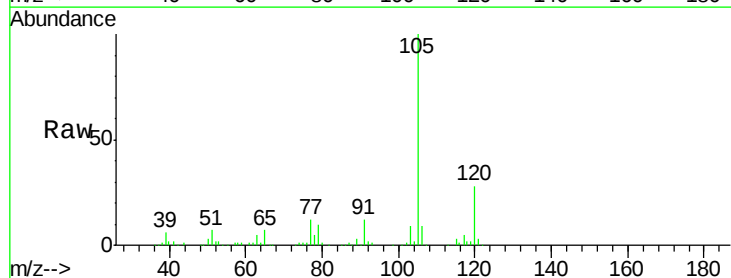
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

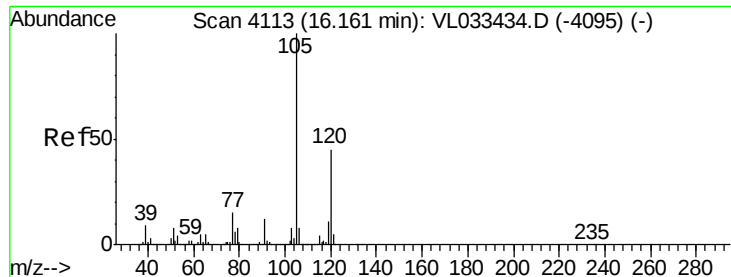
Tot Ion: 91 Resp: 214202
 Ion Ratio Lower Upper
 91 100
 126 29.3 11.7 46.9



#72
 4-Ethyltoluene
 Concen: 0.838 ppbv
 RT: 15.99 min Scan# 4061
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Tgt Ion: 105 Resp: 223928
 Ion Ratio Lower Upper
 105 100
 120 29.0 23.2 34.8
 91 14.0 10.4 15.6
 77 14.2 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 0.816 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

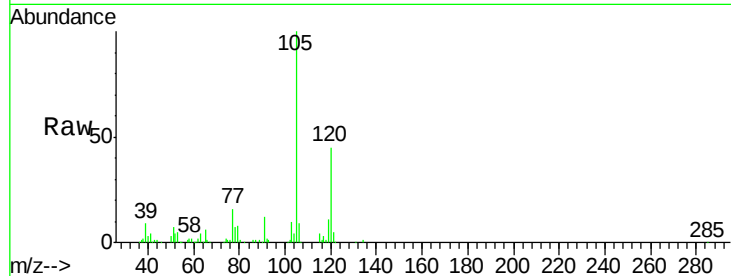
LOQ-AIR-02-QT2-2019

Tot Ion:105 Resp: 208553

Ion Ratio Lower Upper

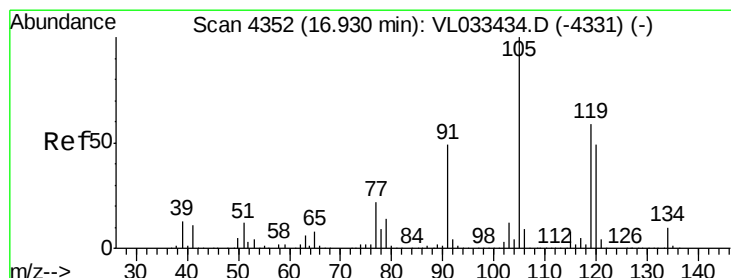
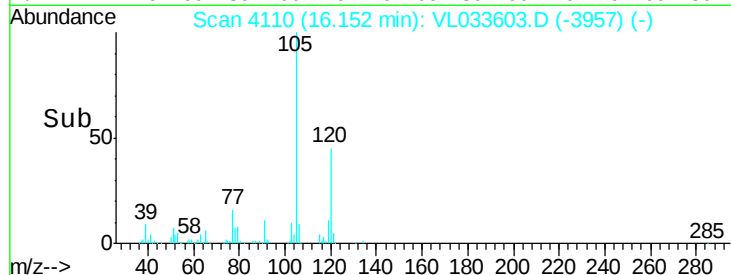
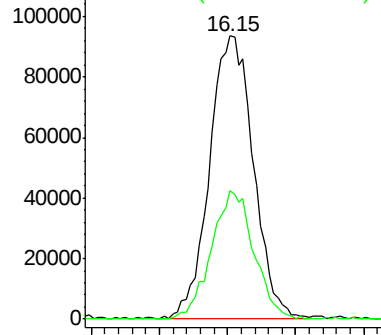
105 100

120 45.3 35.7 53.5



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: 0.808 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Tgt Ion:105 Resp: 221341

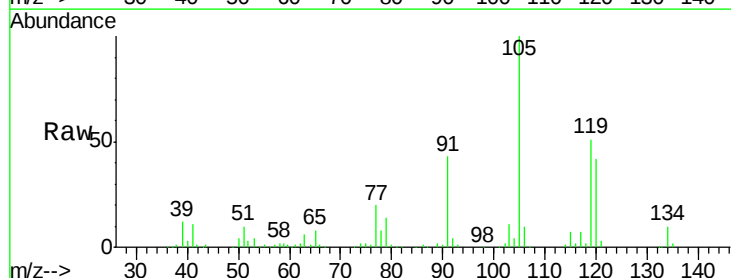
Ion Ratio Lower Upper

105 100

120 41.6 39.0 58.6

91 41.8 40.0 60.0

77 19.0 17.5 26.3

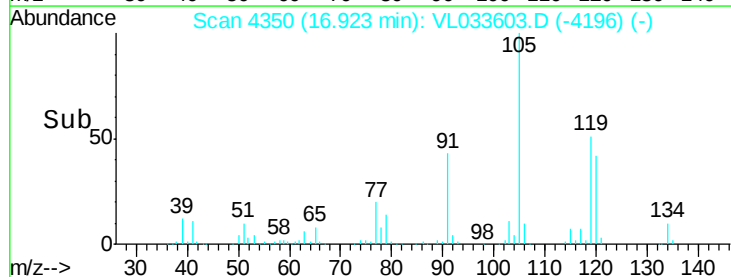
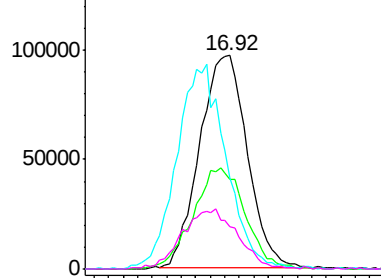


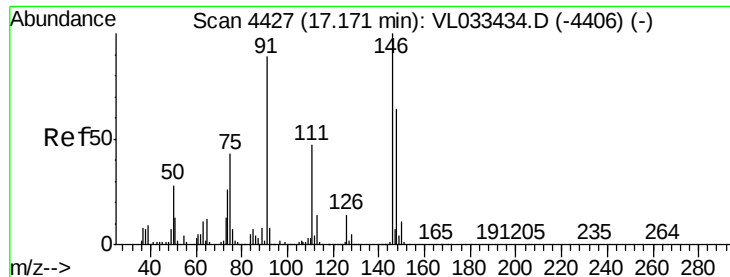
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 0.896 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

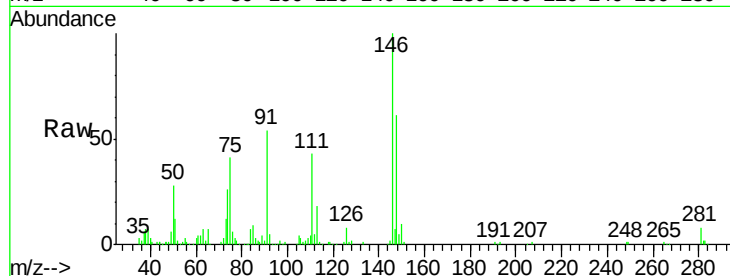
Tot Ion:146 Resp: 151760

Ion Ratio Lower Upper

146 100

111 46.7 22.9 68.8

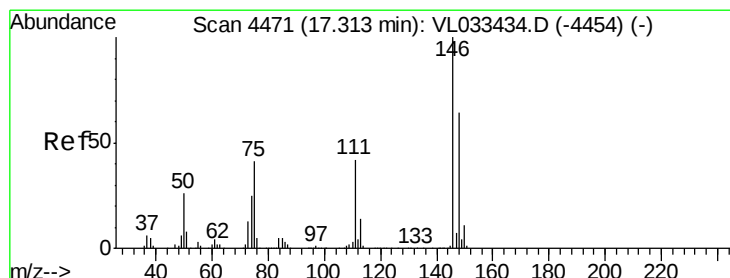
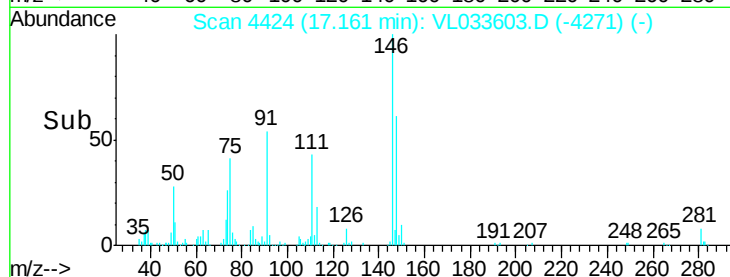
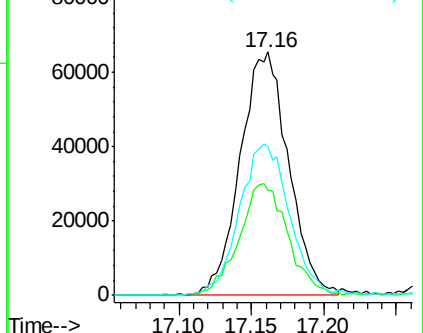
148 64.8 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.842 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

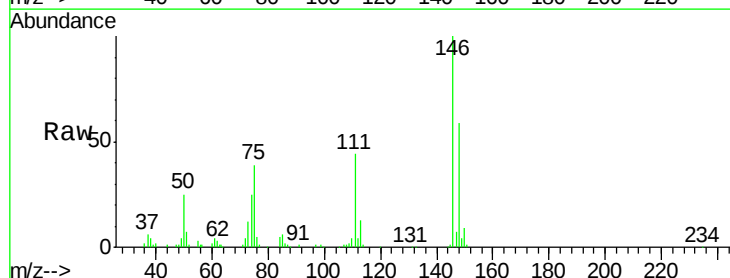
Tgt Ion:146 Resp: 138968

Ion Ratio Lower Upper

146 100

111 46.1 21.7 65.1

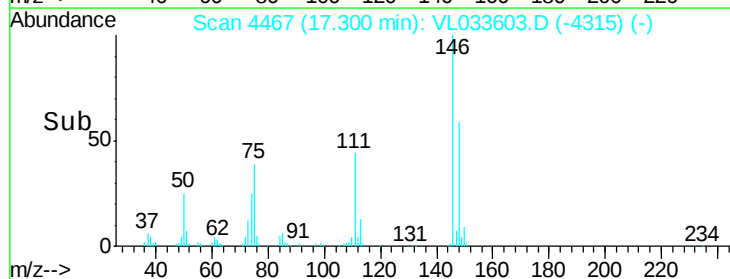
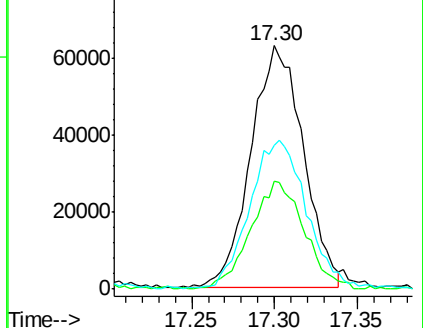
148 67.8 32.0 96.2

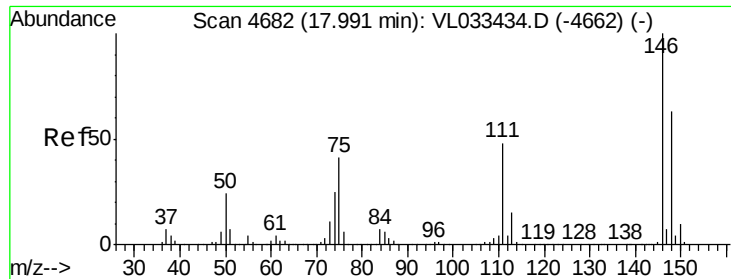


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.898 ppbv

RT: 17.98 min Scan# 4679

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

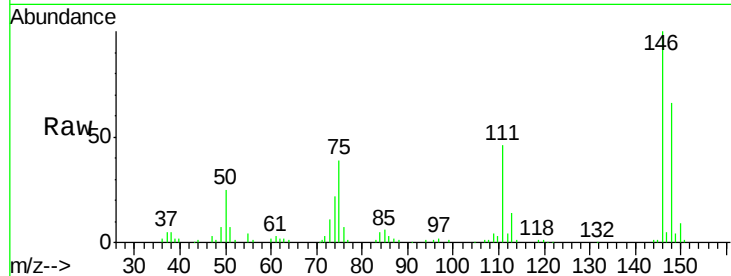
Tot Ion:146 Resp: 144305

Ion Ratio Lower Upper

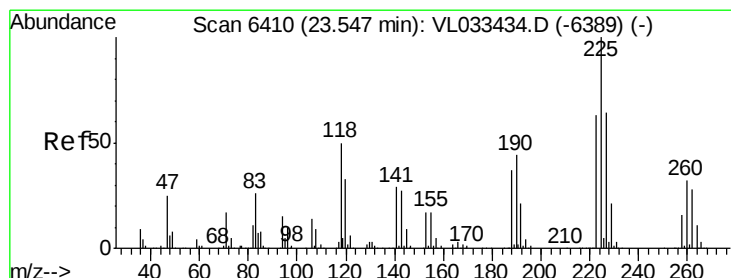
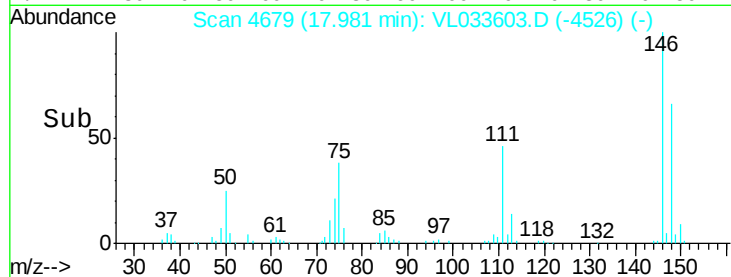
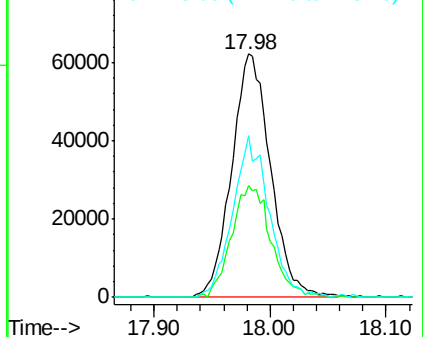
146 100

111 46.8 23.5 70.5

148 62.3 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.962 ppbv m

RT: 23.55 min Scan# 6410

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

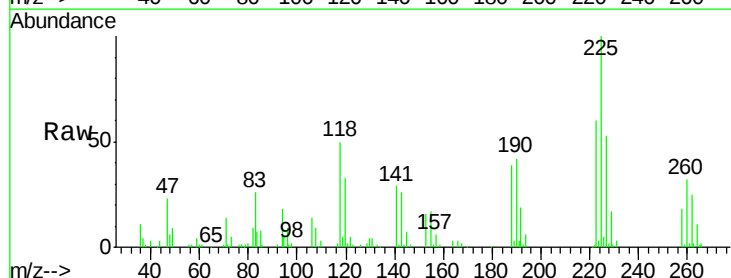
Tgt Ion:225 Resp: 102390

Ion Ratio Lower Upper

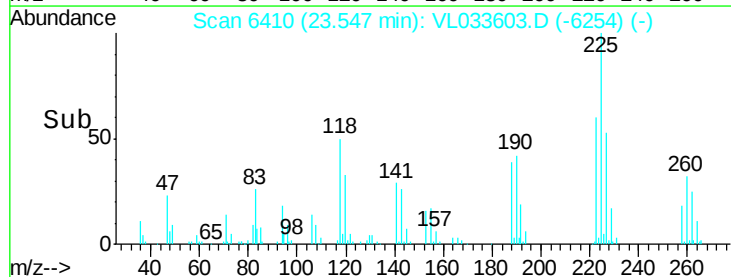
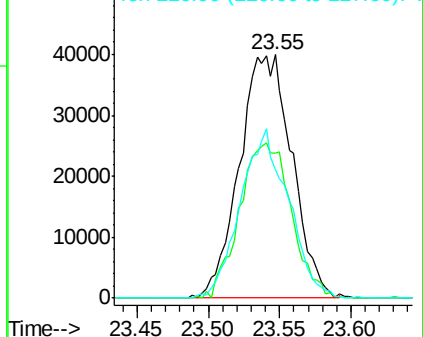
225 100

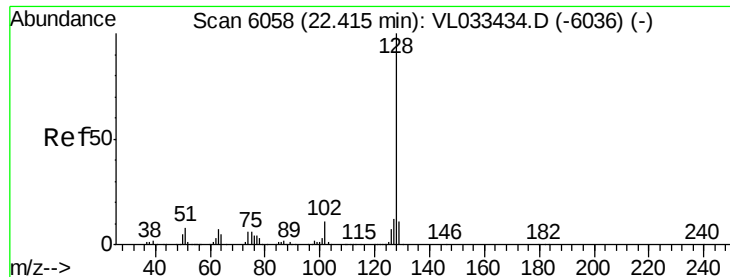
223 62.7 50.0 75.0

227 63.5 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.416 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. -0.01 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

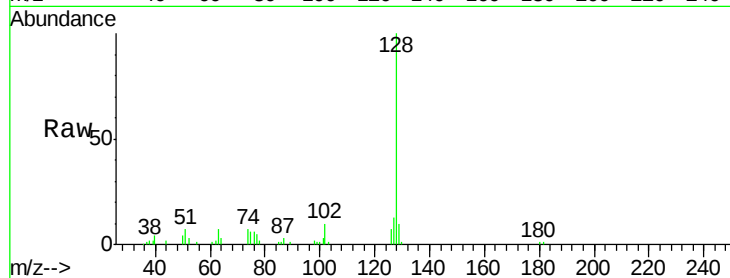
Tot Ion:128 Resp: 97556

Ion Ratio Lower Upper

128 100

127 12.4 9.8 14.8

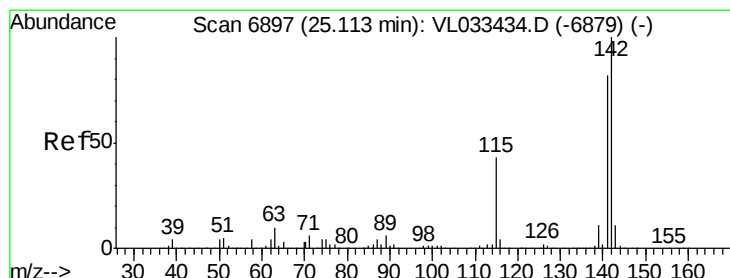
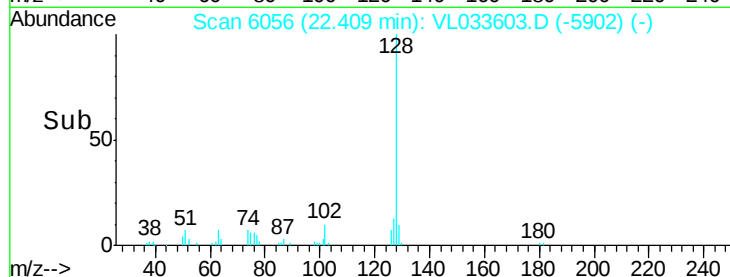
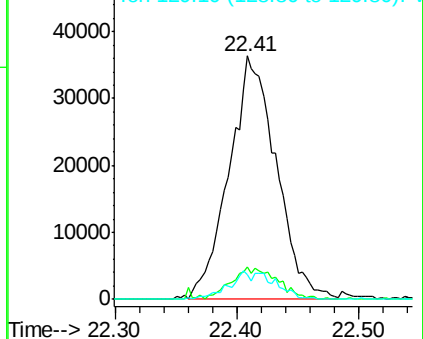
129 10.3 8.6 12.8



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: 0.151 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033603.D

Acq: 17 Apr 2019 15:37

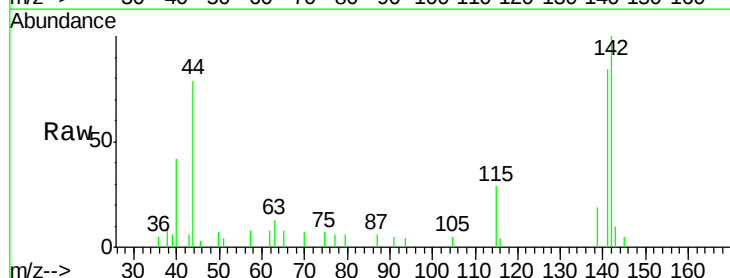
Tgt Ion:142 Resp: 11881

Ion Ratio Lower Upper

142 100

141 90.3 66.6 99.8

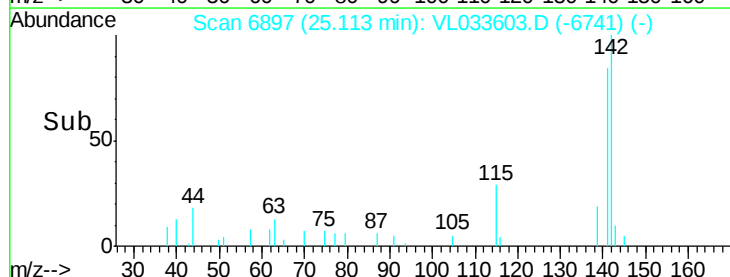
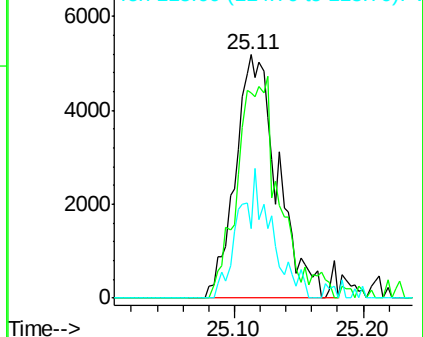
115 42.6 34.4 51.6



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





#81
 1,2,4-Trichlorobenzene
 Concen: 0.561 ppbv m
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033603.D
 Acq: 17 Apr 2019 15:37

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.0	115.4#
184	0.0	24.6	36.8#

