

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
 Data File : VL032216.D
 Acq On : 5 Jul 2018 23:22
 Operator : SY/AP
 Sample : J3762-14 1 PPB LOQ
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Quant Time: Jul 06 04:30:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1551850	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3789977	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3919796	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.67	95	2969703	9.91	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	238649	1.168	ppbv	98
3) Chlorodifluoromethane	3.07	51	194198	1.024	ppbv #	92
4) Chloromethane	3.23	50	103880	1.026	ppbv	99
5) Vinyl Chloride	3.35	62	98584	0.964	ppbv	91
6) Bromomethane	3.58	94	56777	0.975	ppbv	99
7) Chloroethane	3.67	64	35638	0.986	ppbv	89
8) Dichlorotetrafluoroethane	3.28	85	245126	1.075	ppbv	90
9) Propene	3.09	41	63181	0.715	ppbv	95
10) Heptane	8.33	43	271657	1.054	ppbv	96
11) Trichlorofluoromethane	4.07	101	229012	1.036	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	140682	0.955	ppbv	90
13) Ethanol	3.72	45	21317	0.796	ppbv	86
14) Bromoethene	3.85	108	63008	0.899	ppbv #	95
15) Acetone	3.97	43	194697	1.073	ppbv	98
16) 1,3-Butadiene	3.42	39	90727	1.048	ppbv	85
17) tert-Butyl alcohol	4.44	59	79551	0.689	ppbv	95
18) 1,1-Dichloroethene	4.42	96	65472	0.930	ppbv	96
19) Isopropyl Alcohol	4.10	45	119748	0.794	ppbv #	46
20) Methylene Chloride	4.48	84	63845	0.963	ppbv	94
21) Allyl Chloride	4.55	41	97591	0.788	ppbv	89
22) trans-1,2-Dichloroethene	5.04	96	66919	0.909	ppbv	92
23) Vinyl Acetate	5.23	43	251274	0.764	ppbv #	97
24) 1,1-Dichloroethane	5.17	63	219733	1.042	ppbv	99
25) Ethyl Acetate	5.85	43	387271	1.032	ppbv	99
26) Hexane	5.86	57	175020	1.012	ppbv	93
27) Carbon Disulfide	4.69	76	125942	0.733	ppbv #	91
28) Methyl tert-Butyl Ether	5.20	73	257435	0.843	ppbv	97
29) Chloroform	5.93	83	281132	1.117	ppbv	92
30) Cyclohexane	7.34	84	158002	0.970	ppbv #	72
31) cis-1,2-Dichloroethene	5.72	61	156582	0.906	ppbv	91
32) 1,1,1-Trichloroethane	6.70	97	298903	1.133	ppbv	96
34) 2-Butanone	5.41	43	227729	0.947	ppbv	97
35) Carbon Tetrachloride	7.22	117	294354	1.135	ppbv	97
36) Benzene	7.09	78	415223	1.132	ppbv	99
37) 1,2-Dichloroethane	6.49	62	247062	1.352	ppbv	96
38) Trichloroethene	8.05	130	128353	0.896	ppbv	94
39) 1,2-Dichloropropane	7.82	63	160305	1.108	ppbv	91
40) 1,4-Dioxane	8.07	88	31773	0.560	ppbv #	21
41) Tetrahydrofuran	6.25	42	126135	0.875	ppbv	99
42) Bromodichloromethane	8.01	83	284373	0.993	ppbv	100
43) Methyl Methacrylate	8.23	69	138145	0.909	ppbv	93

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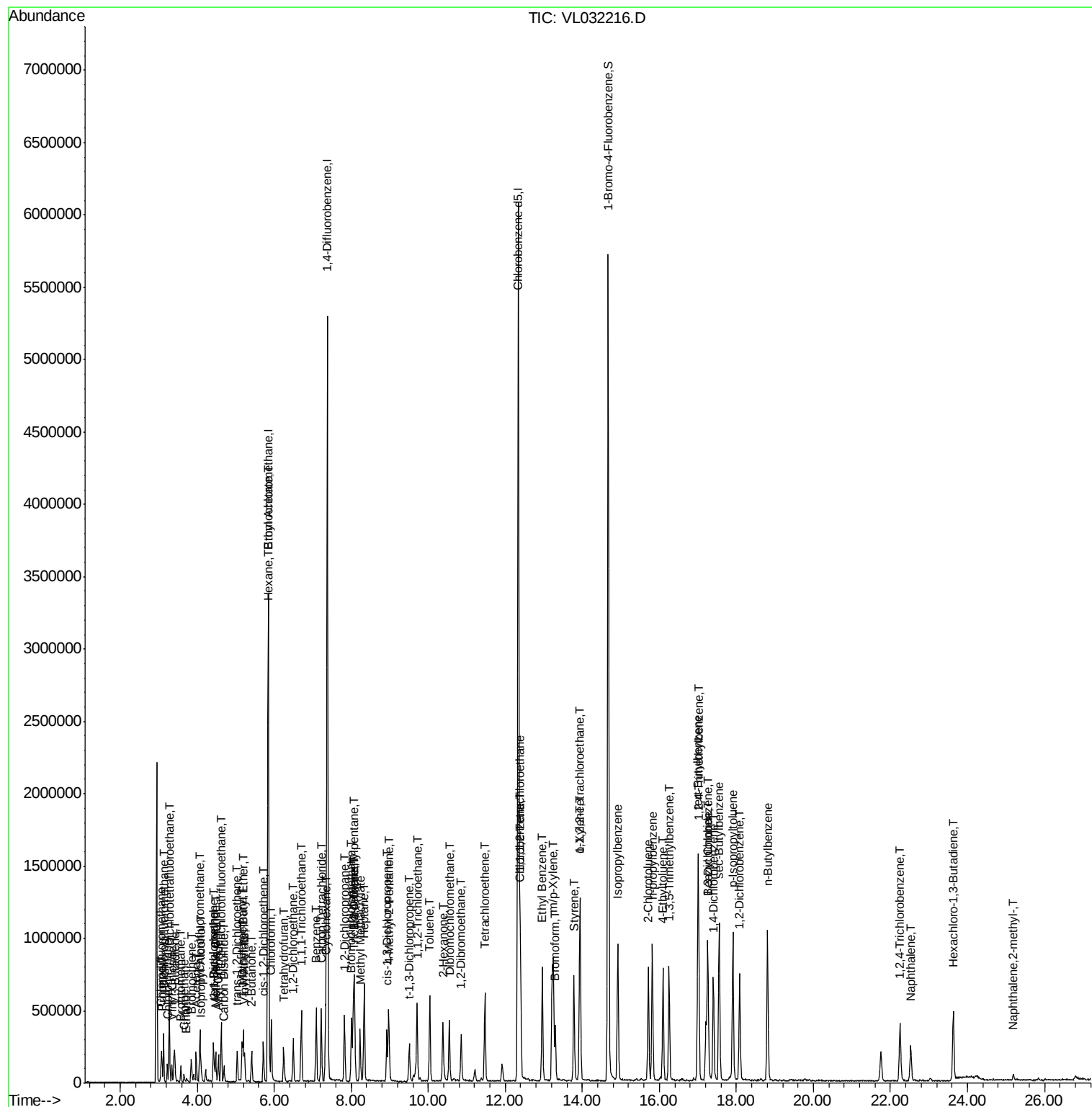
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	652004	1.016	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	137094	0.728	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	196948	0.876	ppbv	94
47) 1,1,2-Trichloroethane	9.71	97	180964	1.203	ppbv	93
48) Dibromochloromethane	10.54	129	252516	1.085	ppbv	98
49) Bromoform	13.30	173	192167	0.986	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	386316	0.980	ppbv	99
51) 2-Hexanone	10.38	43	366929	1.123	ppbv #	97
52) Tetrachloroethene	11.47	164	136918	1.026	ppbv	94
53) Toluene	10.04	91	450754	1.017	ppbv	98
54) 1,2-Dibromoethane	10.85	107	265785	1.176	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.38	131	200948	1.148	ppbv #	1
57) Chlorobenzene	12.39	112	400399	1.179	ppbv	97
58) Ethyl Benzene	12.96	91	666813	1.056	ppbv	91
59) m/p-Xylene	13.25	91	363476	0.718	ppbv #	1
60) o-Xylene	13.94	91	570992	1.131	ppbv	96
61) Styrene	13.78	104	398374	0.963	ppbv	93
62) Isopropylbenzene	14.92	105	787735	1.014	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.93	83	464823	1.189	ppbv	99
64) n-propylbenzene	15.82	120	190452	0.948	ppbv	68
65) tert-Butylbenzene	17.01	119	673344	0.987	ppbv	90
66) Benzyl Chloride	17.25	91	219020	0.520	ppbv #	92
67) sec-Butylbenzene	17.55	105	1016421	1.017	ppbv	96
69) p-Isopropyltoluene	17.91	119	754657	0.942	ppbv	95
70) n-Butylbenzene	18.81	91	846464	1.011	ppbv	96
71) 2-Chlorotoluene	15.71	91	607066	1.015	ppbv	95
72) 4-Ethyltoluene	16.10	105	613102	0.940	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.25	105	591434	0.963	ppbv	87
74) 1,2,4-Trimethylbenzene	17.02	105	617014	0.995	ppbv	93
75) 1,3-Dichlorobenzene	17.26	146	371339	1.053	ppbv	97
76) 1,4-Dichlorobenzene	17.40	146	350254	0.979	ppbv	97
77) 1,2-Dichlorobenzene	18.08	146	176203	0.500	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.63	225	108124	0.881	ppbv	98
79) Naphthalene	22.53	128	166928	0.296	ppbv	96
80) Naphthalene,2-methyl-	25.19	142	22022	0.108	ppbv #	89
81) 1,2,4-Trichlorobenzene	22.25	180	101952	0.401	ppbv #	16

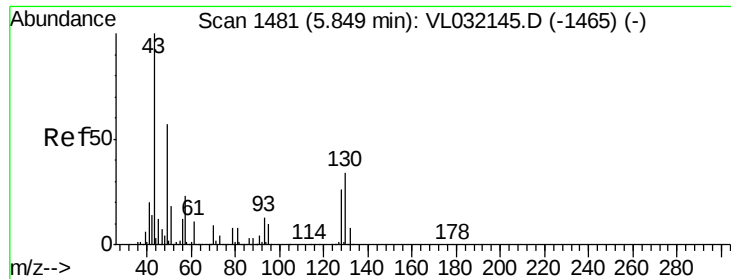
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

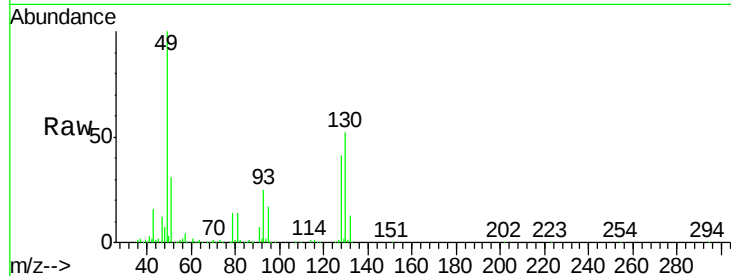
Tgt Ion: 49 Resp: 1551850

Ion Ratio Lower Upper

49 100

128 42.9 23.4 70.0

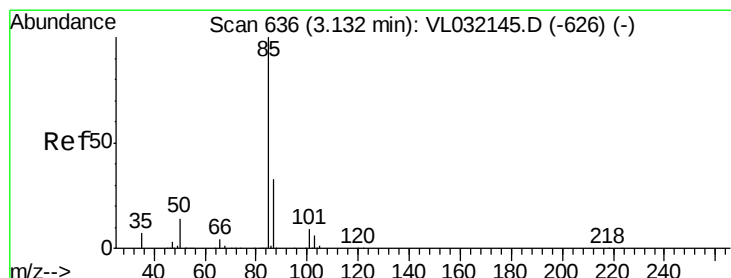
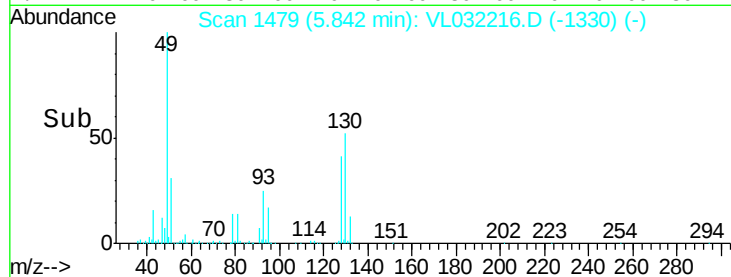
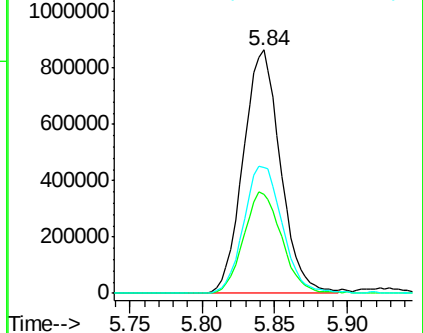
130 54.7 30.3 90.9



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: 1.168 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032216.D

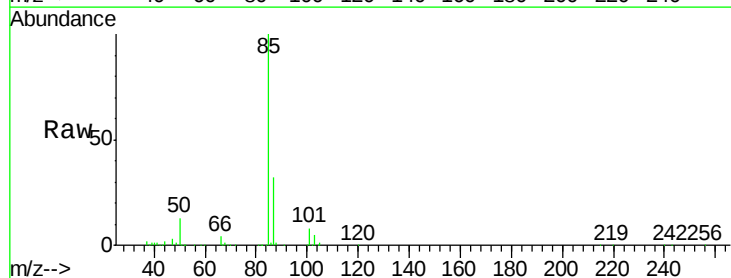
Acq: 5 Jul 2018 23:22

Tgt Ion: 85 Resp: 238649

Ion Ratio Lower Upper

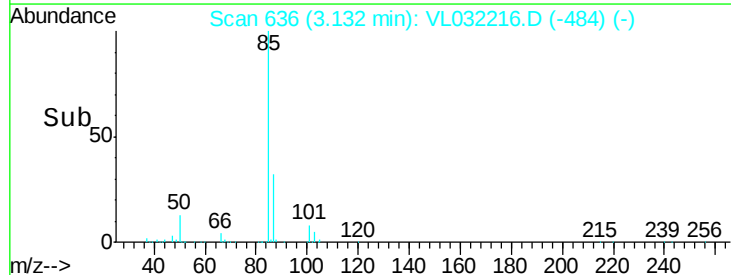
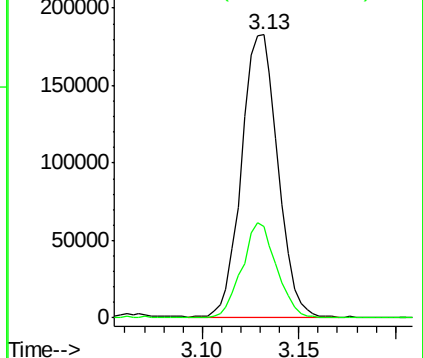
85 100

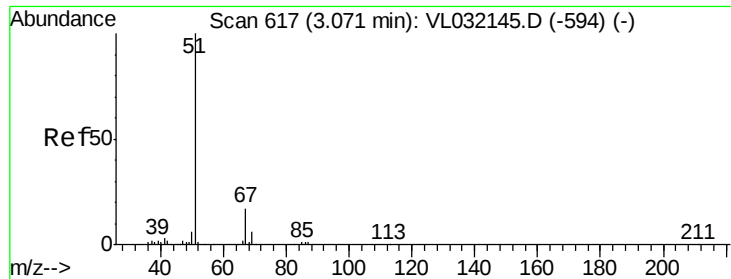
87 32.3 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.024 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

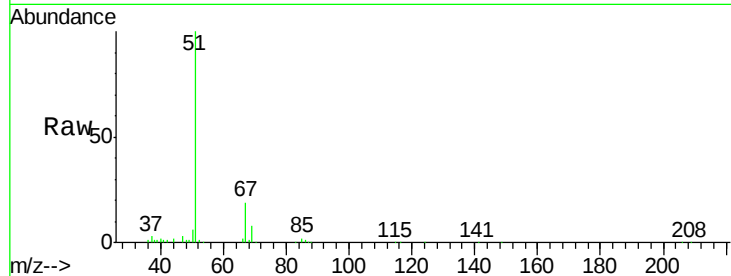
LOQ-AIR-02-QT3-2018

Tgt Ion: 51 Resp: 194198

Ion Ratio Lower Upper

51 100

67 19.8 13.2 19.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

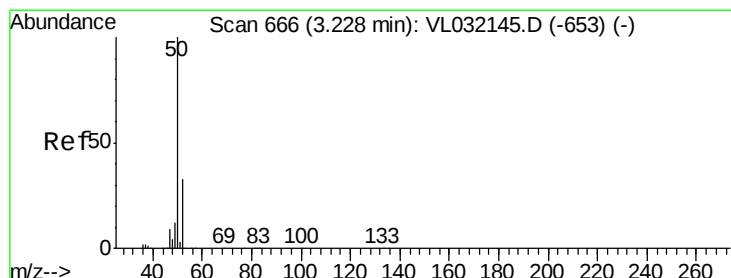
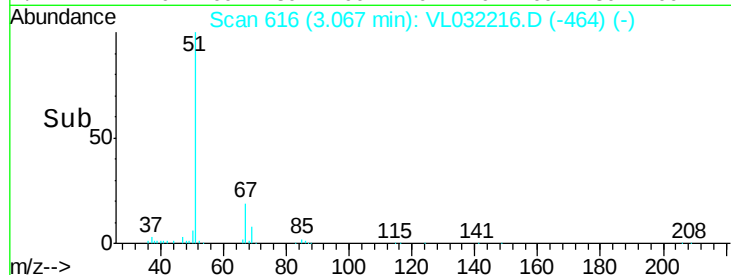
150000

100000

50000

0

Time--> 2.95 3.00 3.05 3.10



#4

Chloromethane

Concen: 1.026 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032216.D

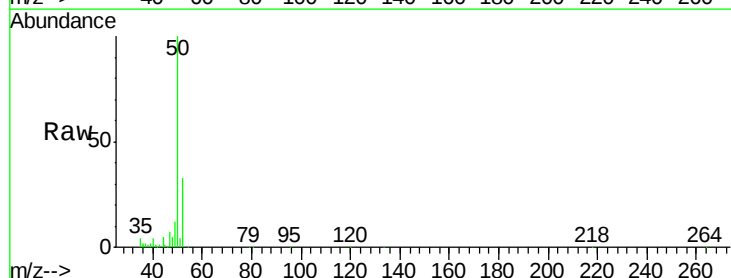
Acq: 5 Jul 2018 23:22

Tgt Ion: 50 Resp: 103880

Ion Ratio Lower Upper

50 100

52 32.8 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

80000

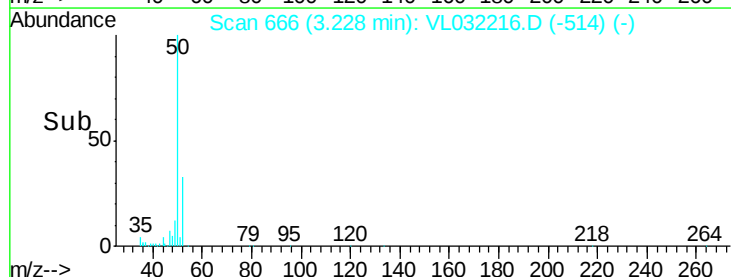
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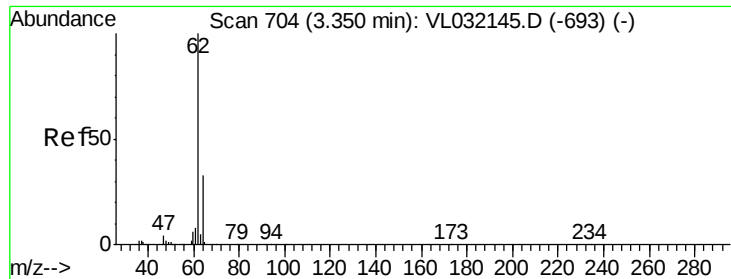
40000

20000

0

Time--> 3.20 3.25





#5

Vinyl Chloride

Concen: 0.964 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

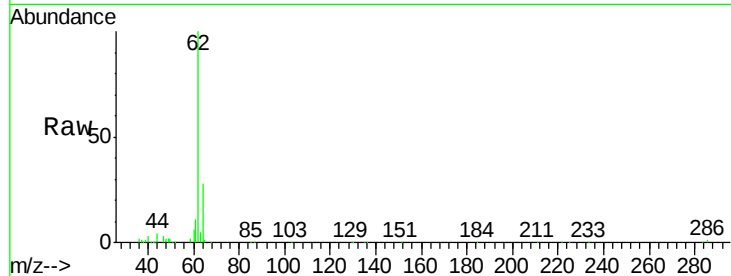
LOQ-AIR-02-QT3-2018

Tgt Ion: 62 Resp: 98584

Ion Ratio Lower Upper

62 100

64 27.7 26.1 39.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.35

80000

60000

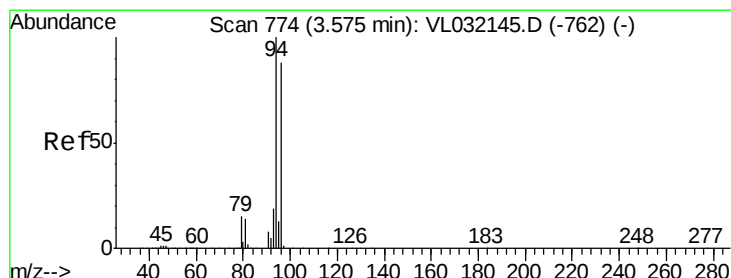
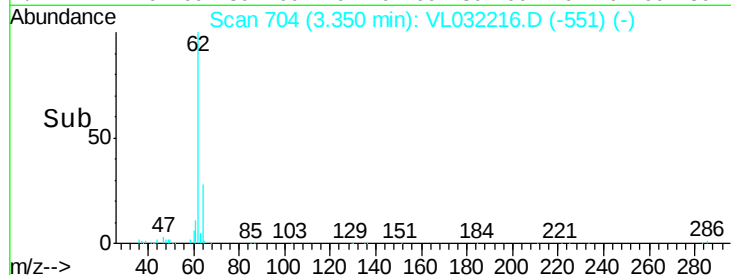
40000

20000

0

Time-->

3.30 3.35 3.40



#6

Bromomethane

Concen: 0.975 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032216.D

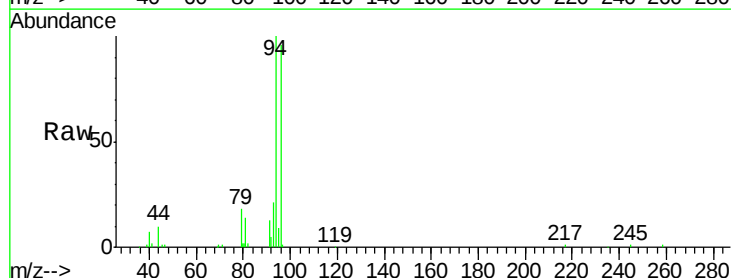
Acq: 5 Jul 2018 23:22

Tgt Ion: 94 Resp: 56777

Ion Ratio Lower Upper

94 100

96 94.4 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.58

40000

30000

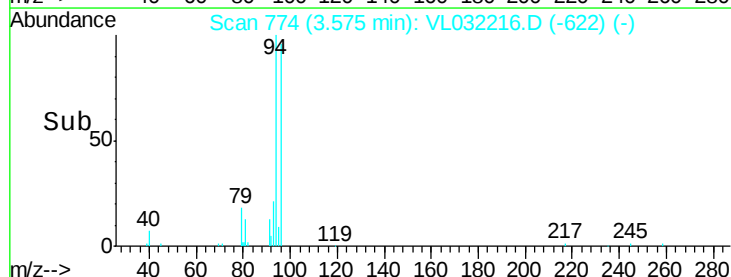
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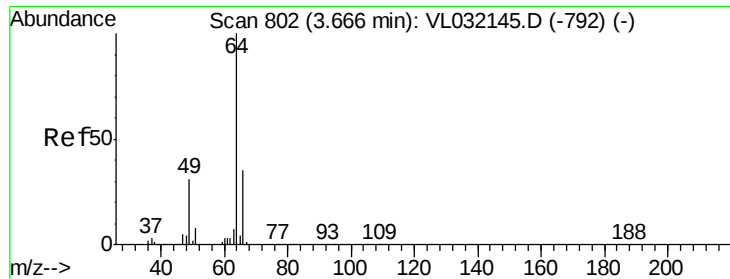
10000

0

Time-->

3.55 3.60





#7

Chloroethane

Concen: 0.986 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

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ClientSampleId :

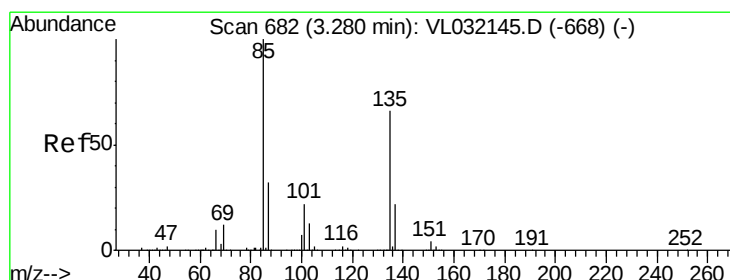
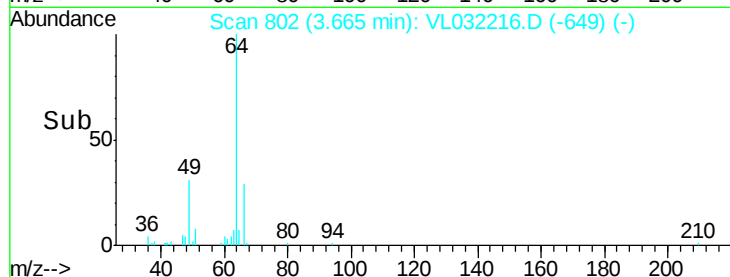
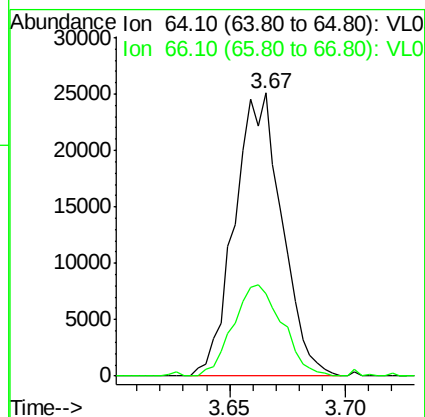
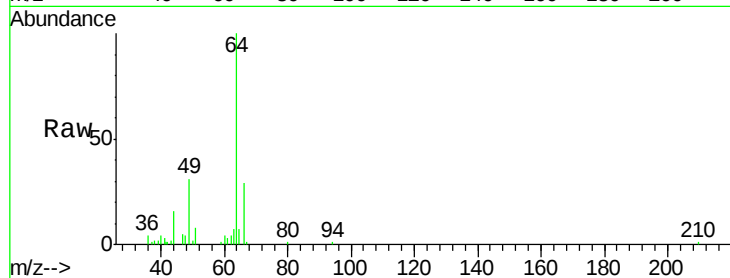
LOQ-AIR-02-QT3-2018

Tgt Ion: 64 Resp: 35638

Ion Ratio Lower Upper

64 100

66 27.3 26.9 40.3



#8

Dichlorotetrafluoroethane

Concen: 1.075 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032216.D

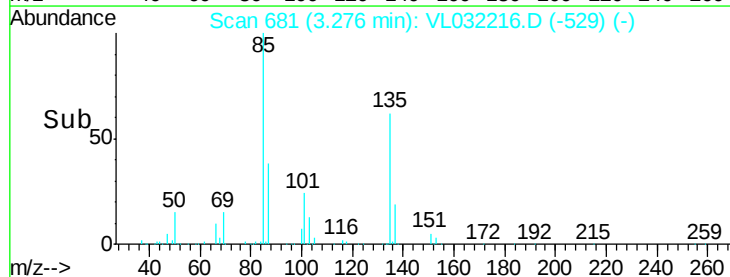
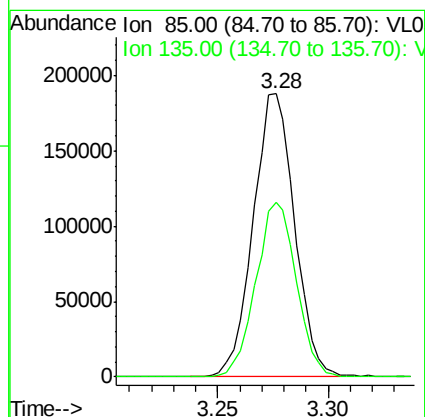
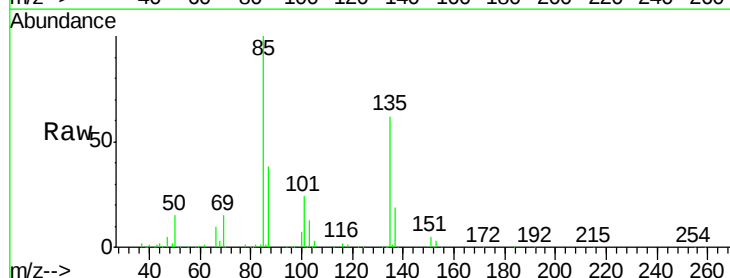
Acq: 5 Jul 2018 23:22

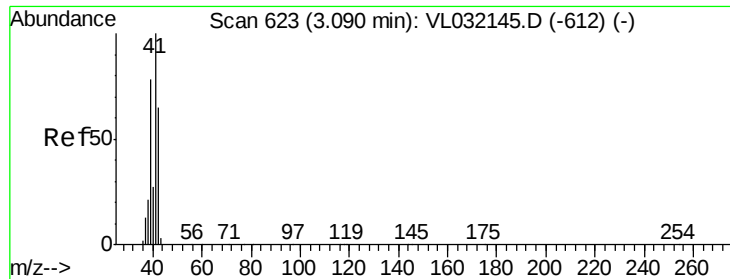
Tgt Ion: 85 Resp: 245126

Ion Ratio Lower Upper

85 100

135 60.2 54.6 82.0





#9

Propene

Concen: 0.715 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032216.D

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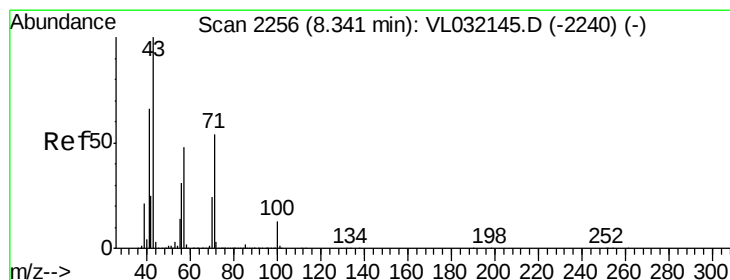
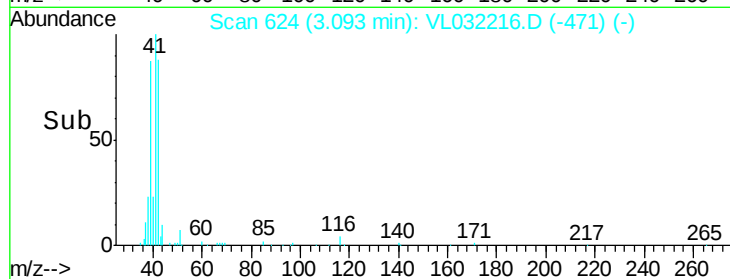
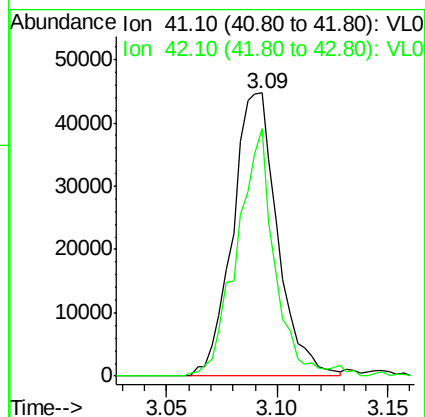
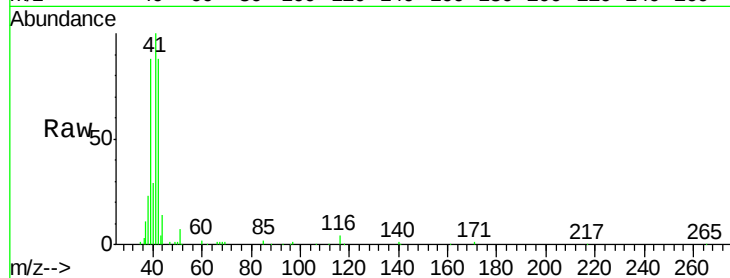
LOQ-AIR-02-QT3-2018

Tgt Ion: 41 Resp: 63181

Ion Ratio Lower Upper

41 100

42 74.2 56.2 84.4



#10

Heptane

Concen: 1.054 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.02 min

Lab File: VL032216.D

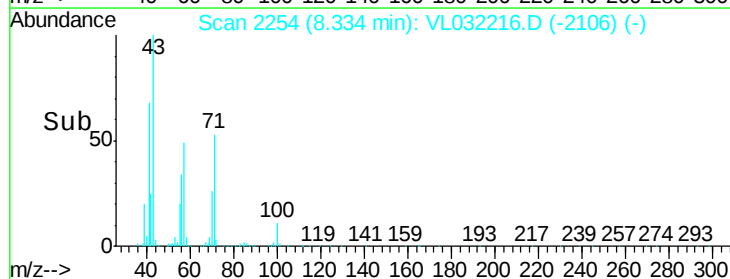
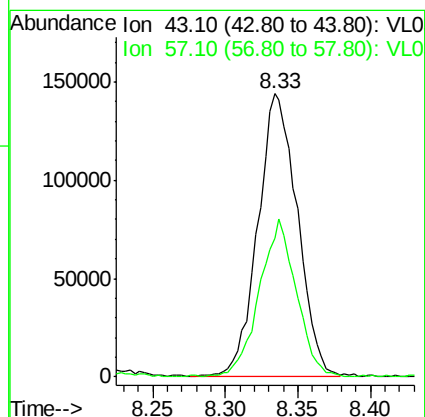
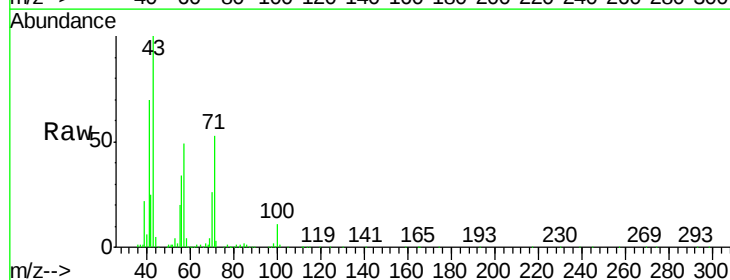
Acq: 5 Jul 2018 23:22

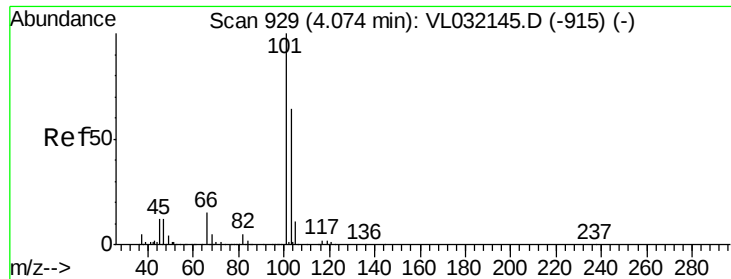
Tgt Ion: 43 Resp: 271657

Ion Ratio Lower Upper

43 100

57 52.9 39.8 59.8

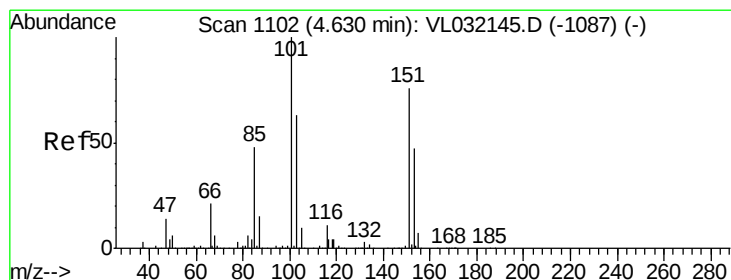
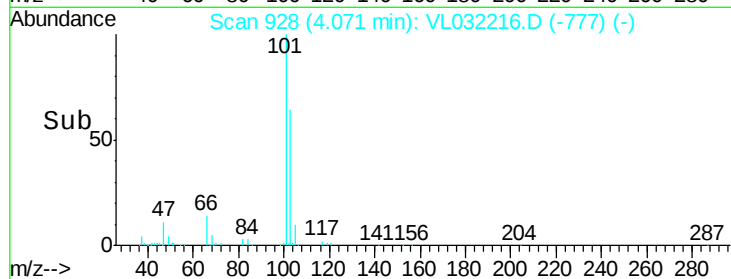
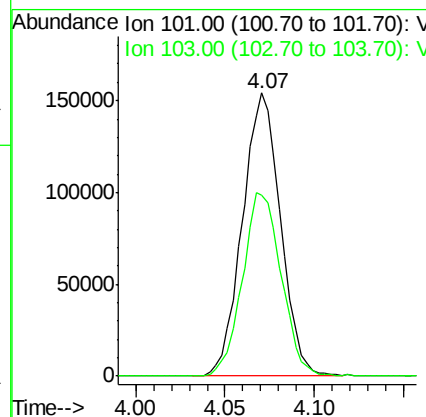
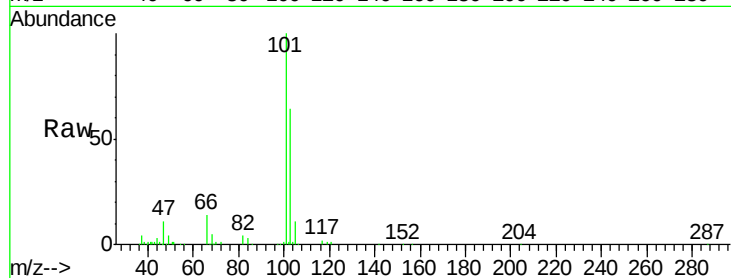




#11
 Trichlorofluoromethane
 Concen: 1.036 ppbv
 RT: 4.07 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

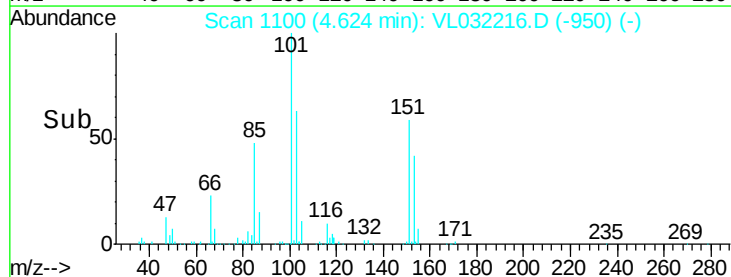
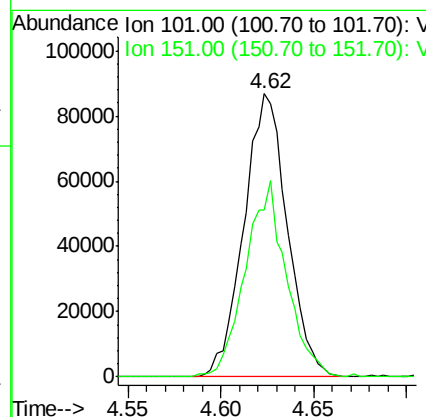
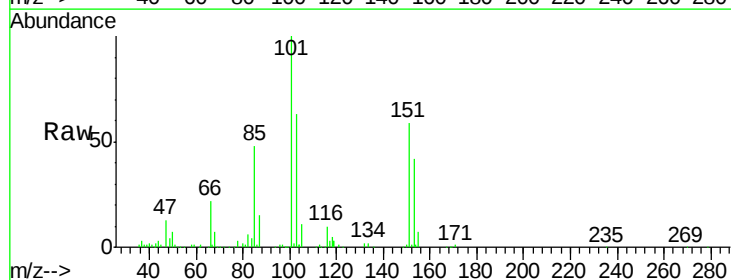
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

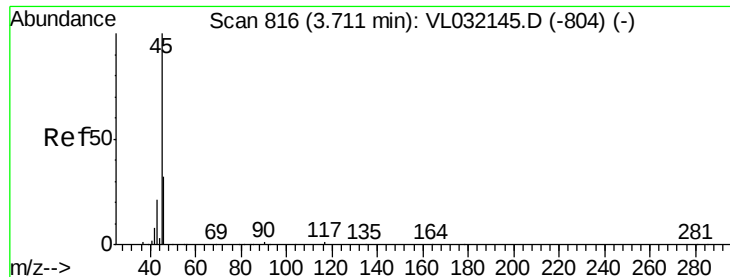
Tgt Ion:101 Resp: 229012
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.955 ppbv
 RT: 4.62 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion:101 Resp: 140682
 Ion Ratio Lower Upper
 101 100
 151 65.4 58.8 88.2





#13

Ethanol

Concen: 0.796 ppbv

RT: 3.72 min Scan# 819

Delta R.T. -0.00 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

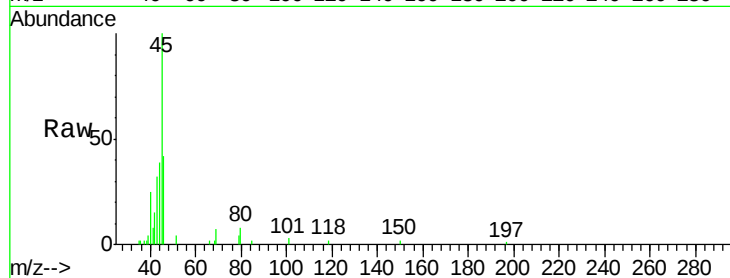
LOQ-AIR-02-QT3-2018

Tgt Ion: 45 Resp: 21317

Ion Ratio Lower Upper

45 100

46 45.0 14.6 58.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.72

12000

10000

8000

6000

4000

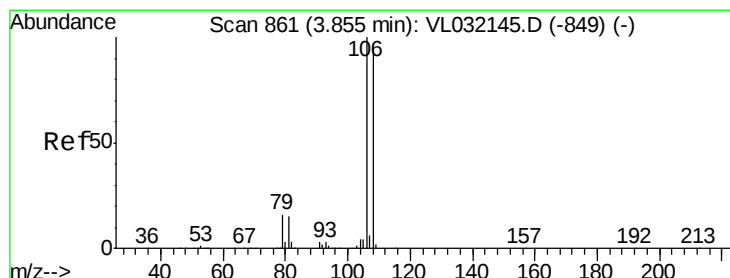
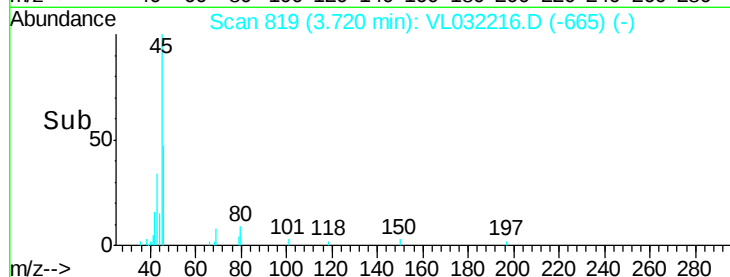
2000

0

Time-->

3.70

3.75



#14

Bromoethene

Concen: 0.899 ppbv

RT: 3.85 min Scan# 859

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

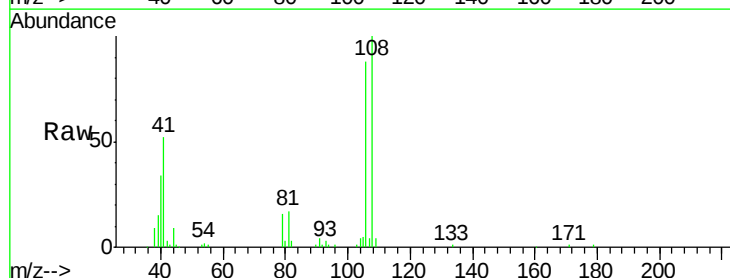
Tgt Ion: 108 Resp: 63008

Ion Ratio Lower Upper

108 100

106 102.7 86.3 129.5

79 19.5 12.7 19.1#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.85

60000

50000

40000

30000

20000

10000

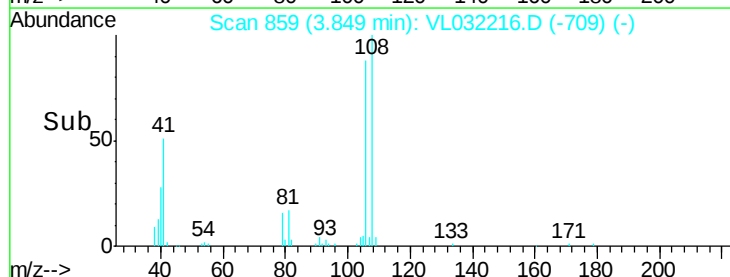
0

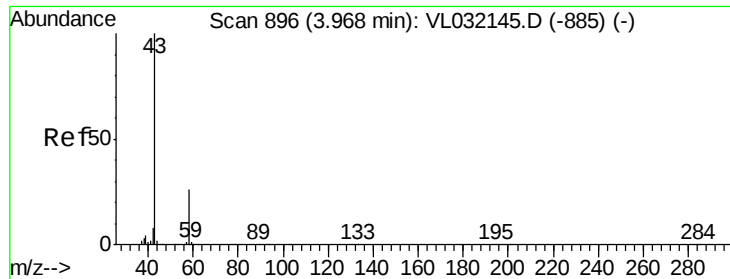
Time-->

3.80

3.85

3.90

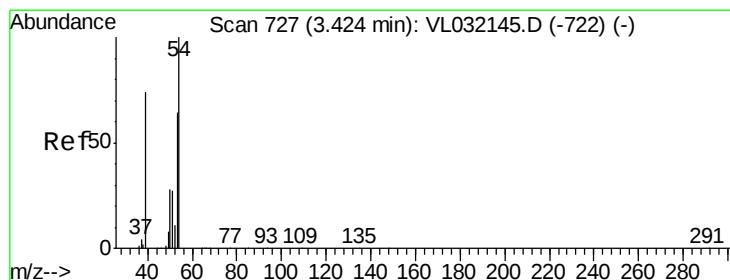
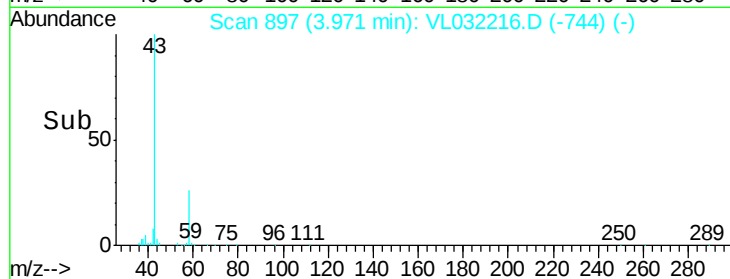
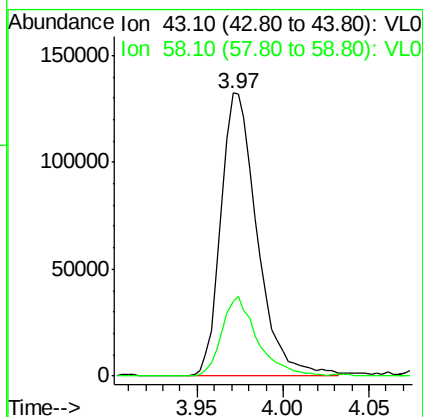
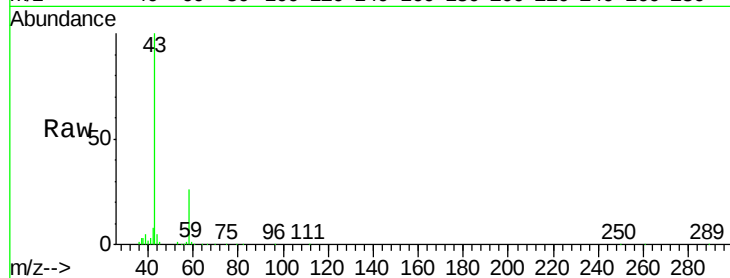




#15
Acetone
Concen: 1.073 ppbv
RT: 3.97 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

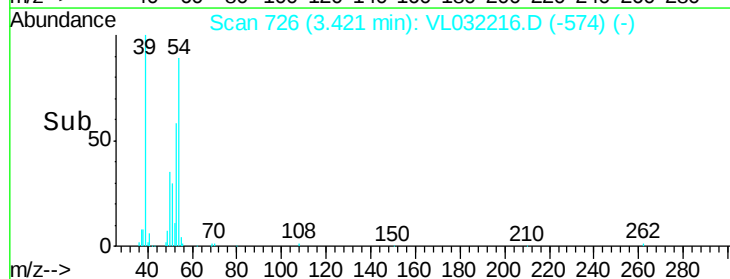
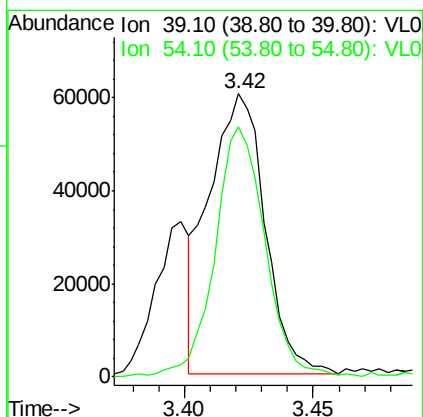
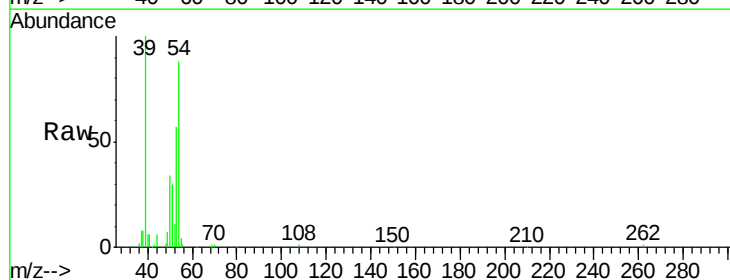
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

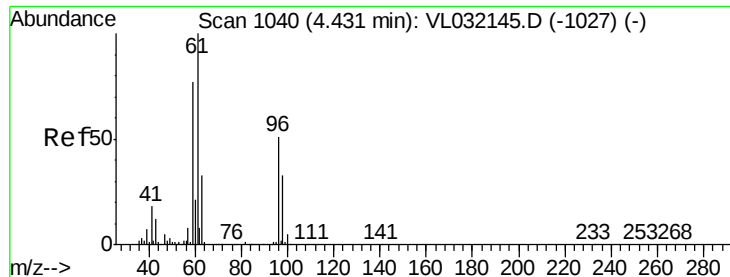
Tgt Ion: 43 Resp: 194697
Ion Ratio Lower Upper
43 100
58 27.9 21.4 32.0



#16
1,3-Butadiene
Concen: 1.048 ppbv
RT: 3.42 min Scan# 726
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion: 39 Resp: 90727
Ion Ratio Lower Upper
39 100
54 80.5 75.8 113.6

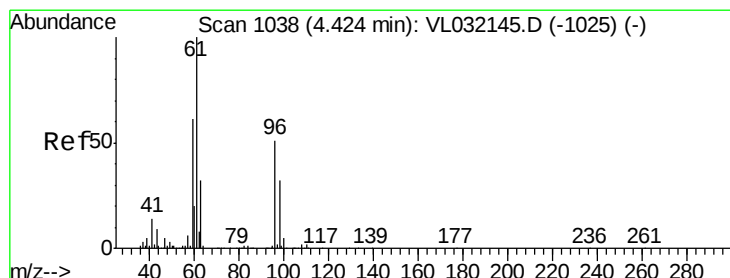
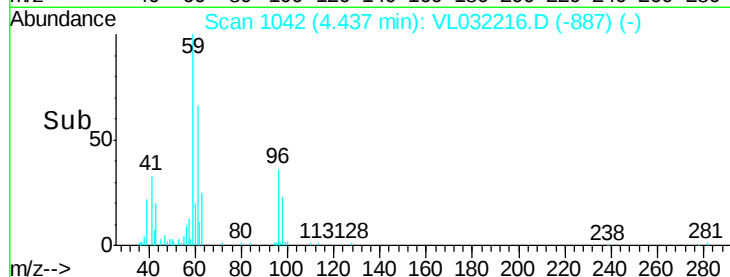
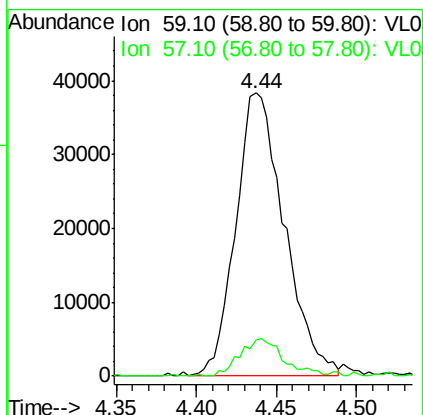
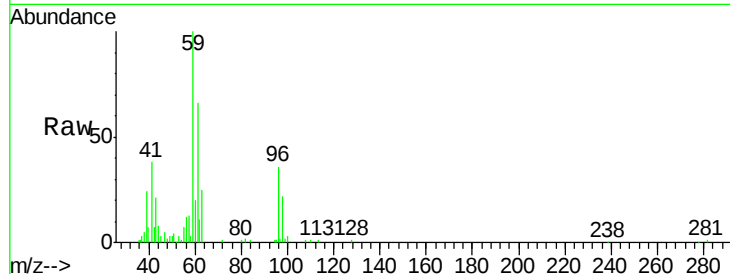




#17
 tert-Butyl alcohol
 Concen: 0.689 ppbv
 RT: 4.44 min Scan# 1042
 Delta R.T. -0.00 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

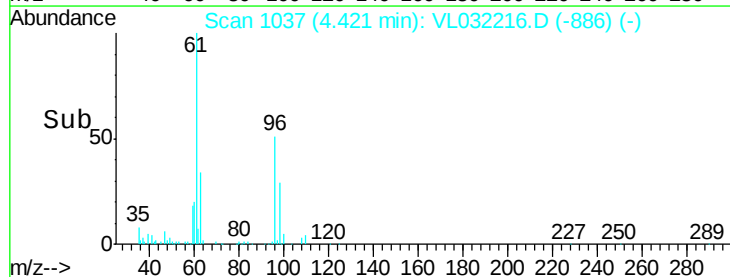
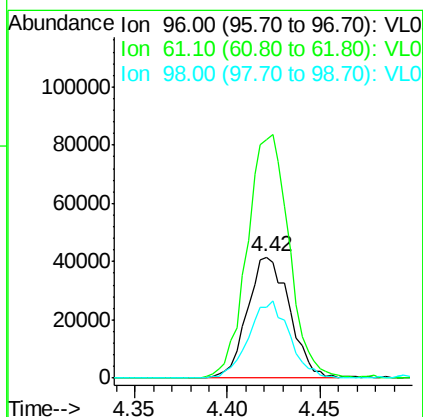
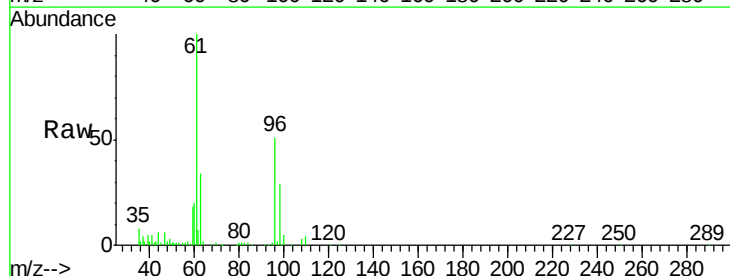
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

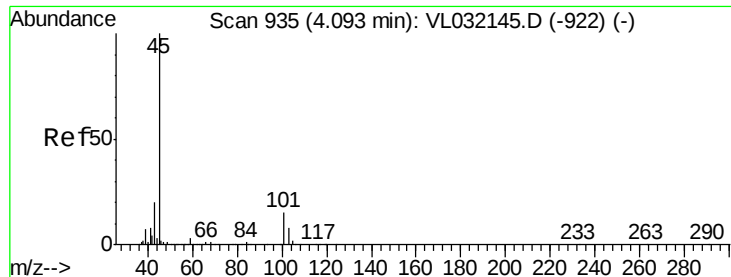
Tgt Ion: 59 Resp: 79551
 Ion Ratio Lower Upper
 59 100
 57 12.2 8.2 12.2



#18
 1,1-Dichloroethene
 Concen: 0.930 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion: 96 Resp: 65472
 Ion Ratio Lower Upper
 96 100
 61 197.8 154.1 231.1
 98 58.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 0.794 ppbv

RT: 4.10 min Scan# 938

Delta R.T. -0.00 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

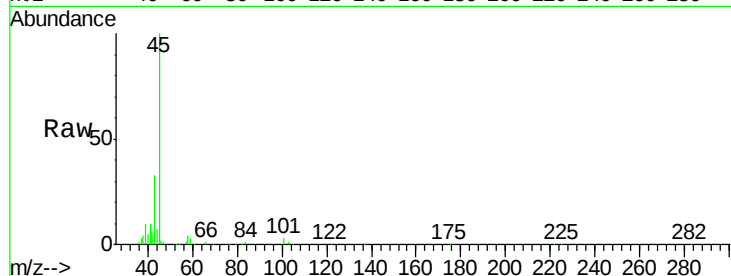
LOQ-AIR-02-QT3-2018

Tgt Ion: 45 Resp: 119748

Ion Ratio Lower Upper

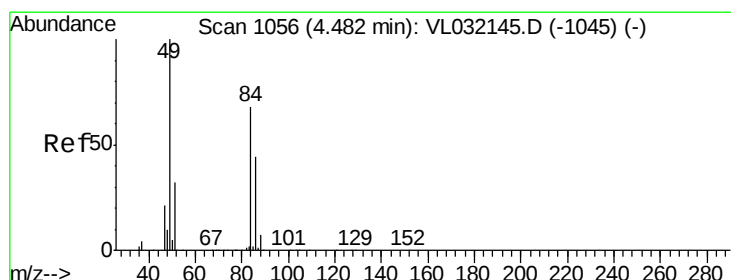
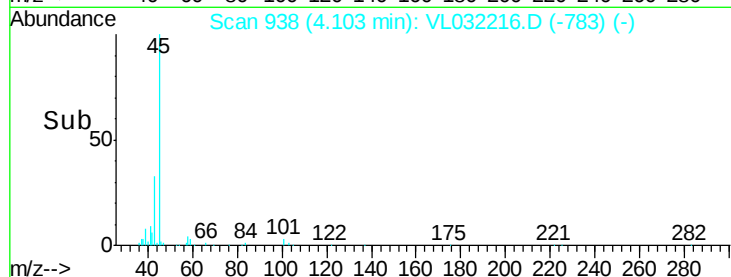
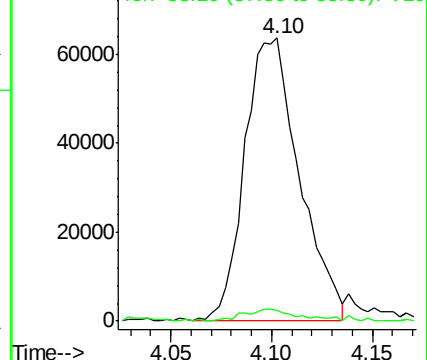
45 100

58 4.9 29.4 44.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.963 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion: 84 Resp: 63845

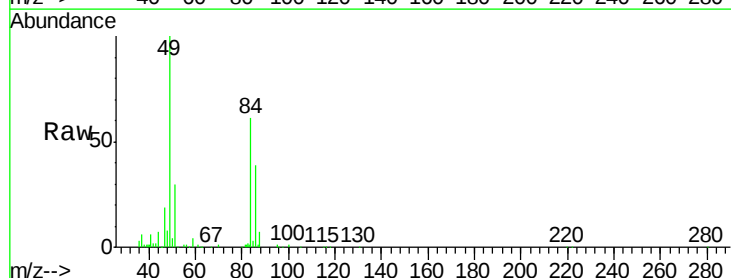
Ion Ratio Lower Upper

84 100

49 160.3 119.6 179.4

51 46.4 36.3 54.5

86 63.3 49.7 74.5

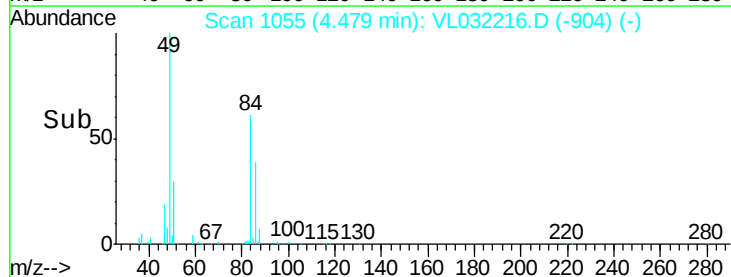
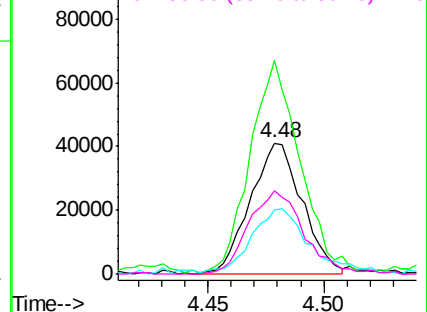


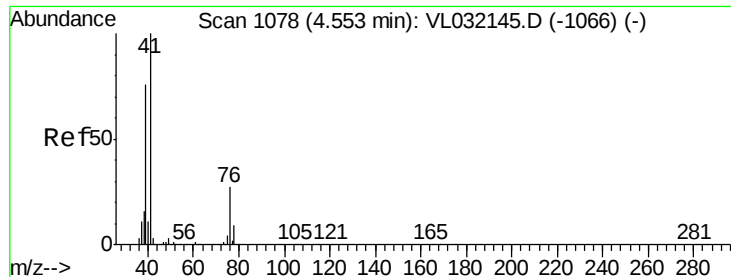
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

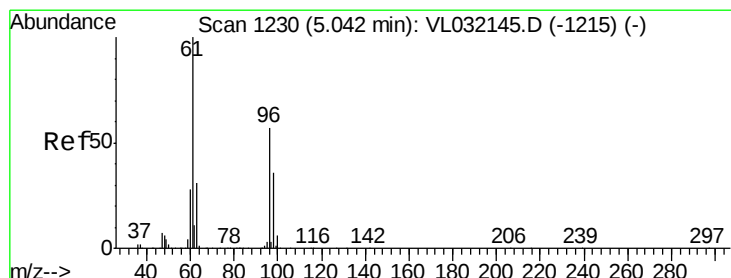
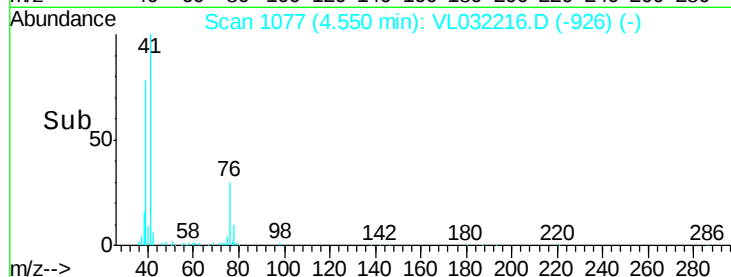
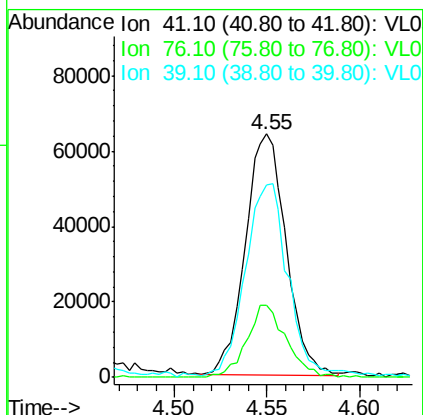
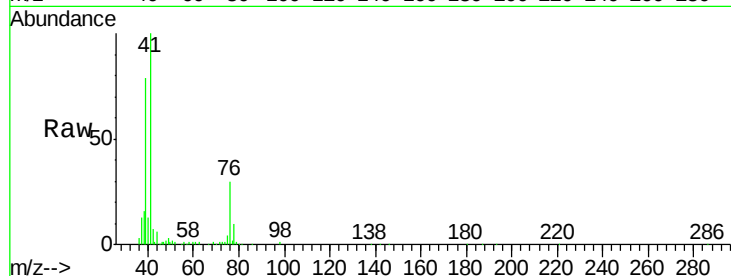




#21
 Allyl Chloride
 Concen: 0.788 ppbv
 RT: 4.55 min Scan# 1077
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

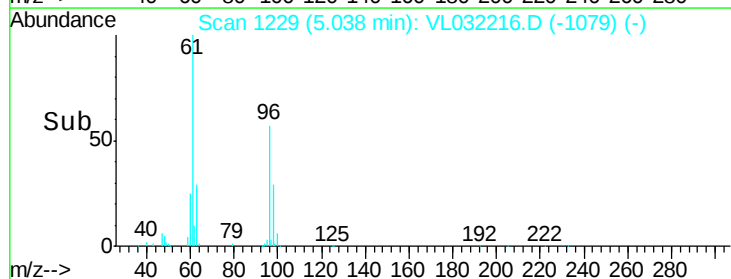
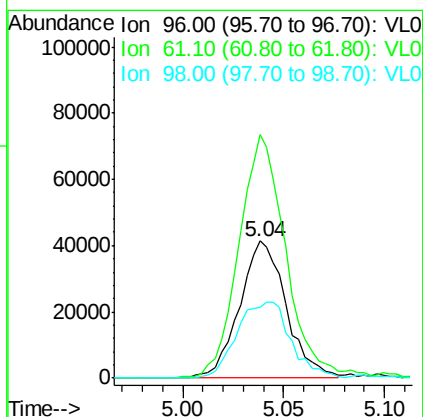
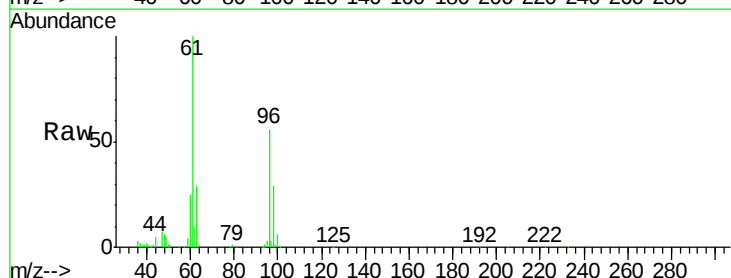
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

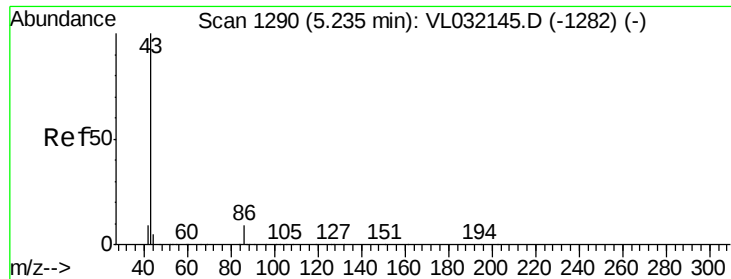
Tgt Ion	Ratio	Lower	Upper
41	100		
76	29.4	22.5	33.7
39	88.2	60.5	90.7



#22
 trans-1,2-Dichloroethene
 Concen: 0.909 ppbv
 RT: 5.04 min Scan# 1229
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.9	135.2	202.8
98	52.2	49.7	74.5

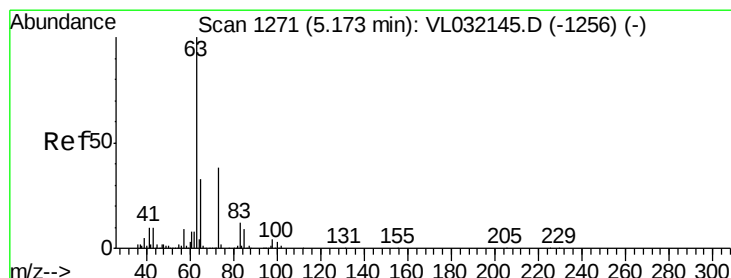
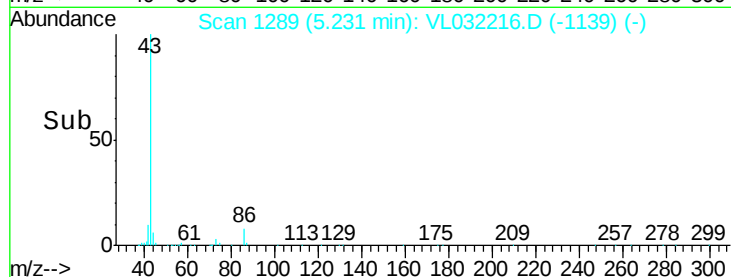
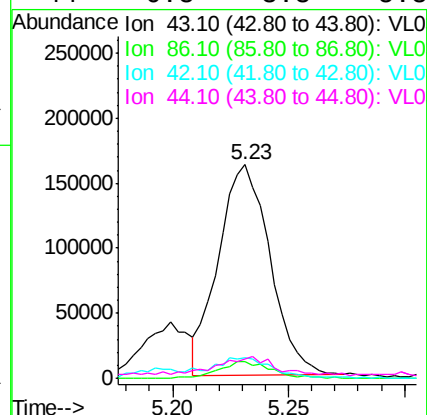
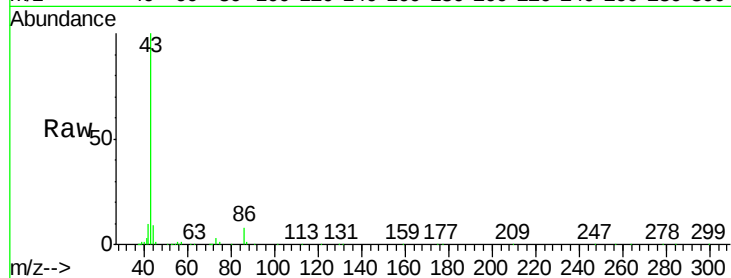




#23
 Vinyl Acetate
 Concen: 0.764 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

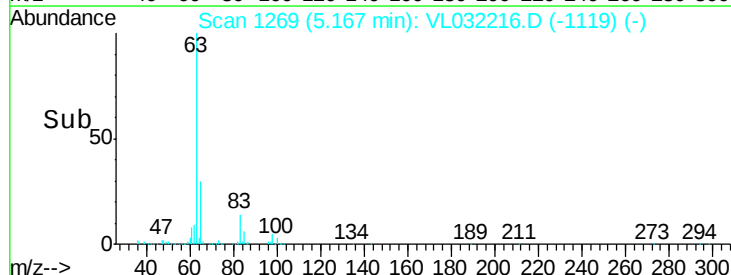
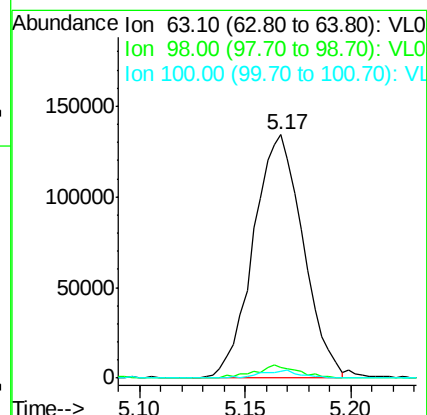
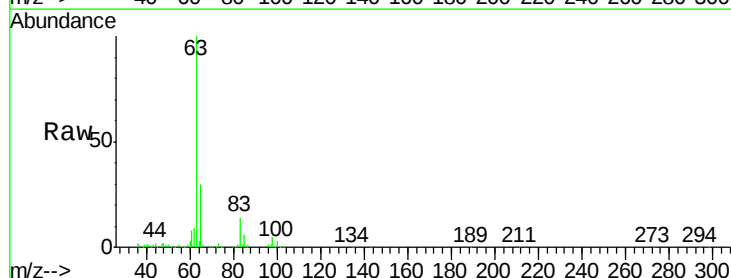
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

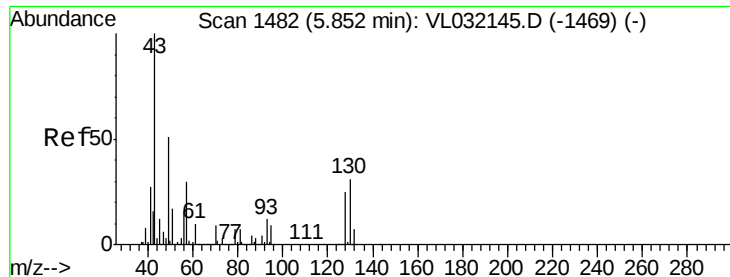
Tgt Ion:	43	Resp:	251274
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.2	9.4
42	9.6	6.9	10.3
44	6.8	3.8	5.8#



#24
 1,1-Dichloroethane
 Concen: 1.042 ppbv
 RT: 5.17 min Scan# 1269
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion:	63	Resp:	219733
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.4	7.2
100	2.9	1.7	5.0

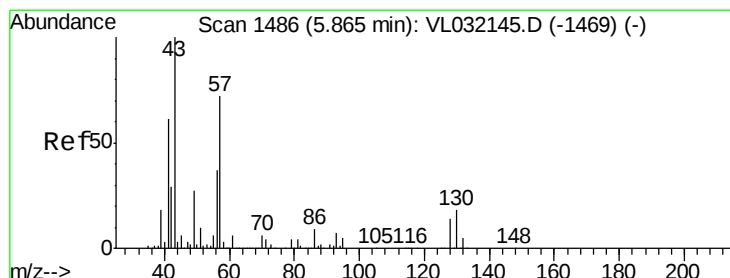
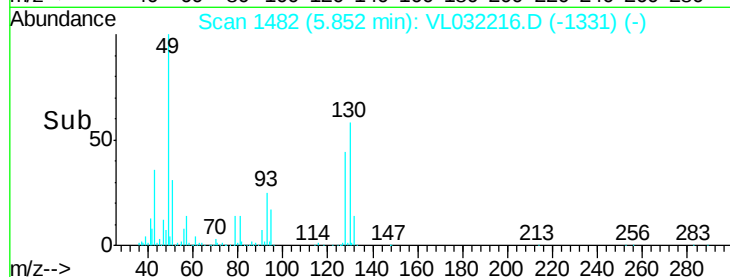
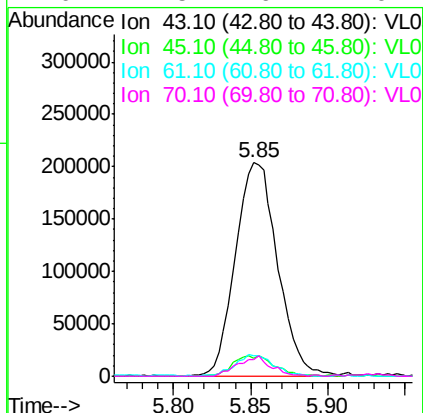
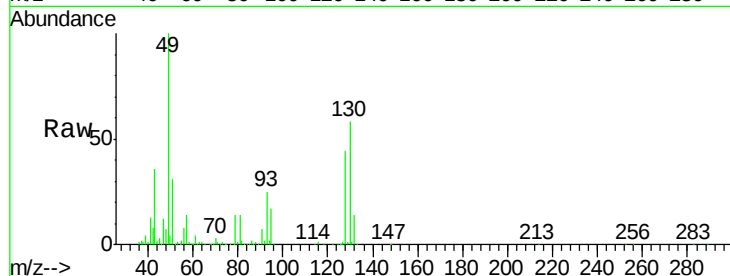




#25
Ethyl Acetate
Concen: 1.032 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

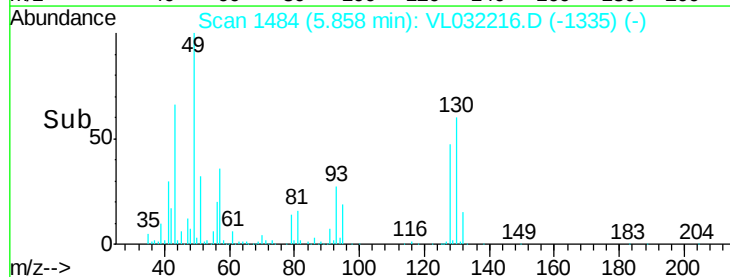
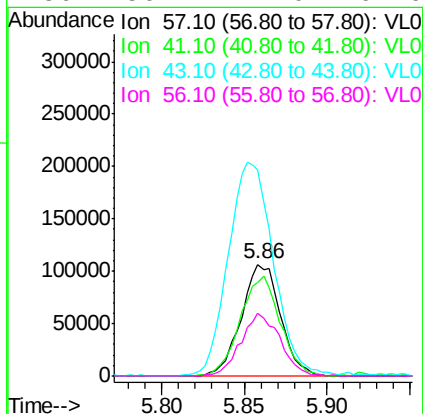
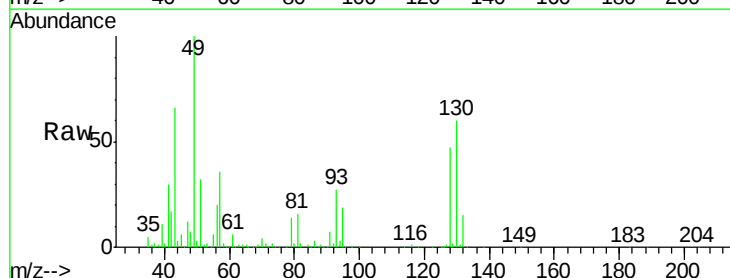
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

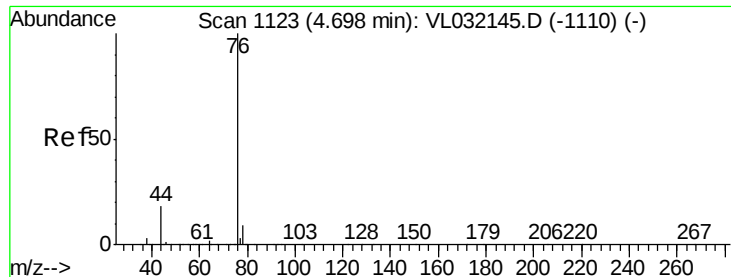
Tgt Ion:	43	Resp:	387271
Ion	Ratio	Lower	Upper
43	100		
45	9.5	7.8	11.8
61	10.2	7.4	11.0
70	7.5	6.1	9.1



#26
Hexane
Concen: 1.012 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion:	57	Resp:	175020
Ion	Ratio	Lower	Upper
57	100		
41	91.7	68.6	103.0
43	222.9	168.6	252.8
56	56.4	41.0	61.6





#27

Carbon Disulfide

Concen: 0.733 ppbv

RT: 4.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

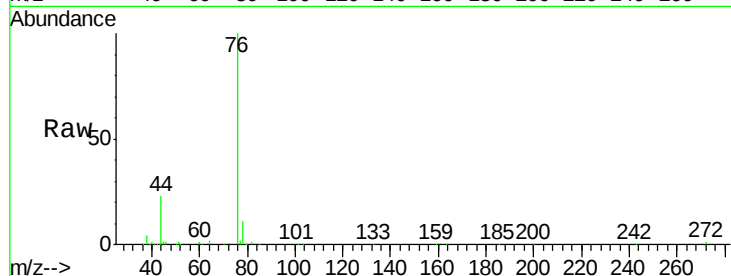
Tgt Ion: 76 Resp: 125942

Ion Ratio Lower Upper

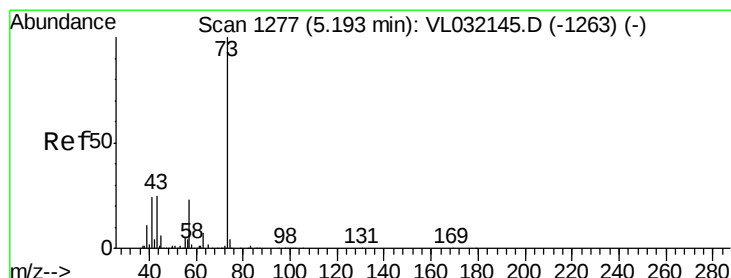
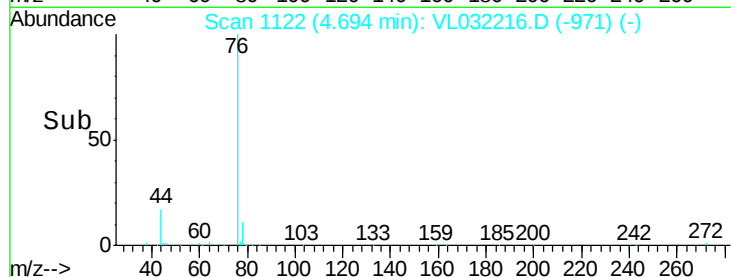
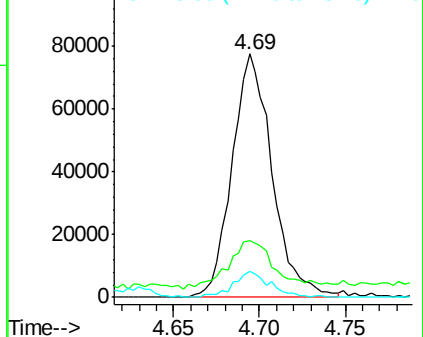
76 100

44 24.1 15.1 22.7#

78 10.0 7.2 10.8



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: 0.843 ppbv

RT: 5.20 min Scan# 1279

Delta R.T. -0.00 min

Lab File: VL032216.D

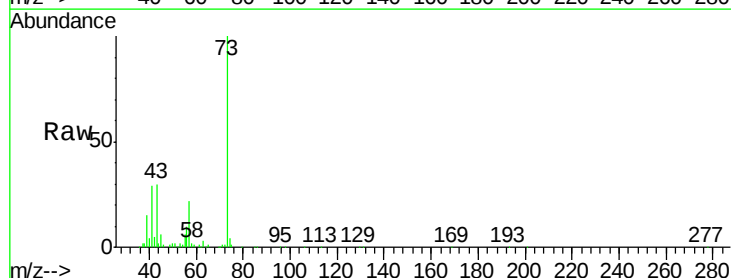
Acq: 5 Jul 2018 23:22

Tgt Ion: 73 Resp: 257435

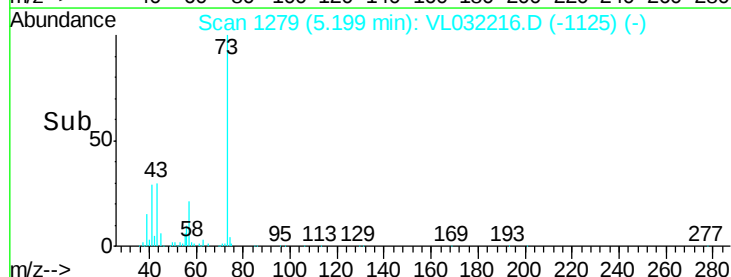
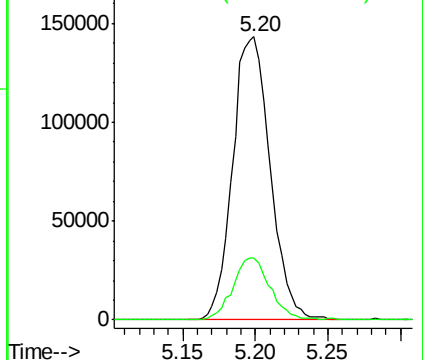
Ion Ratio Lower Upper

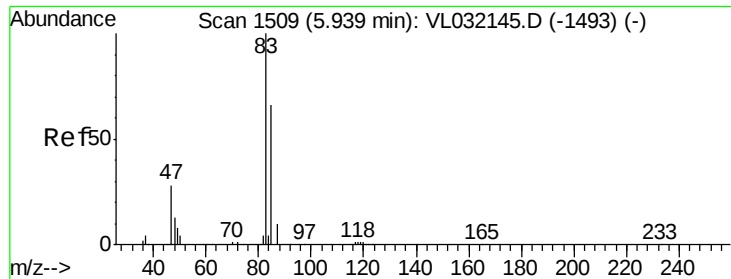
73 100

57 21.8 18.6 27.8



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

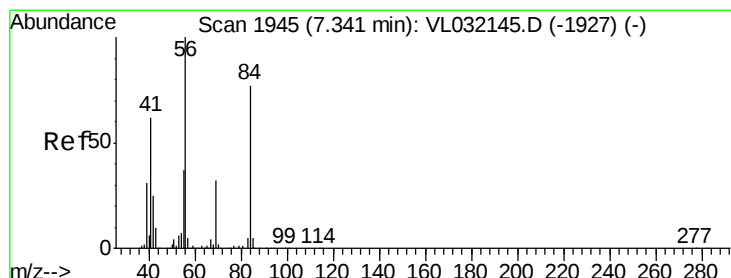
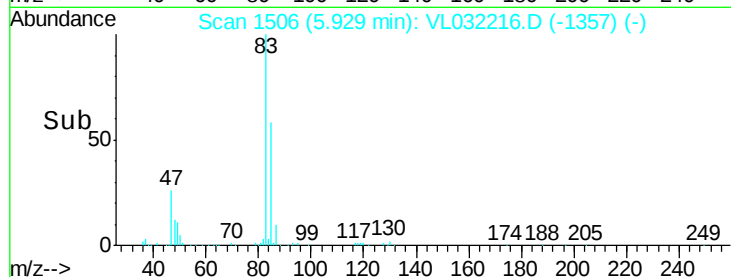
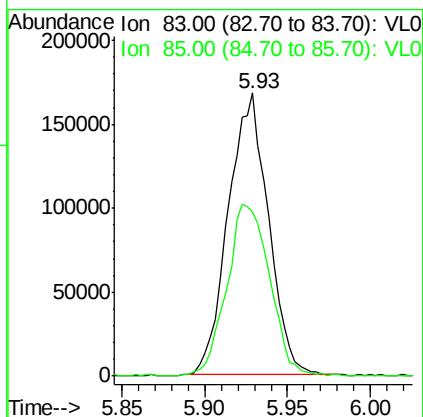
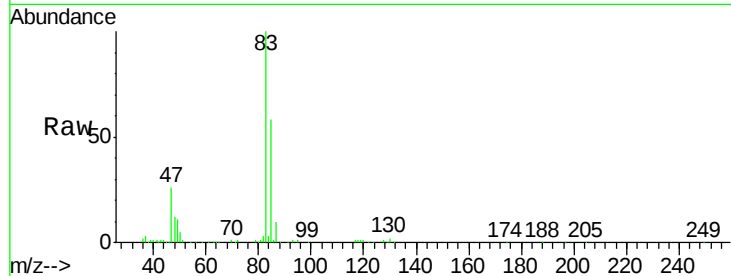




#29
Chloroform
Concen: 1.117 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

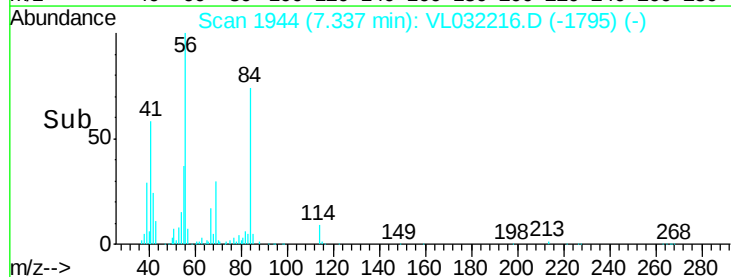
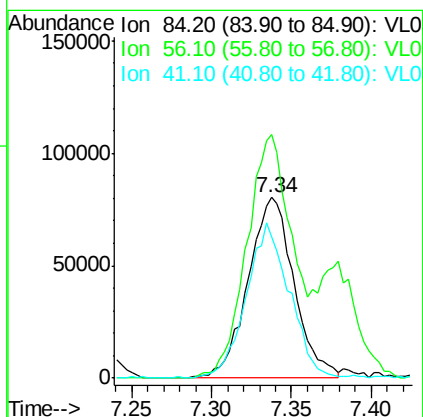
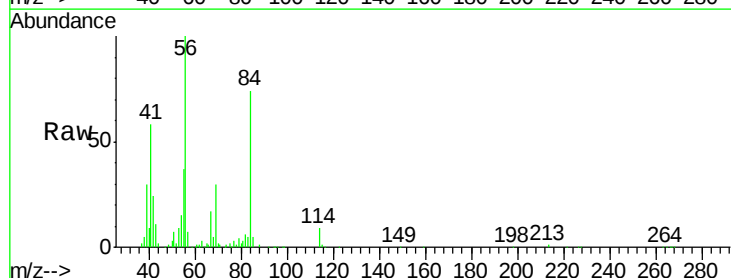
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

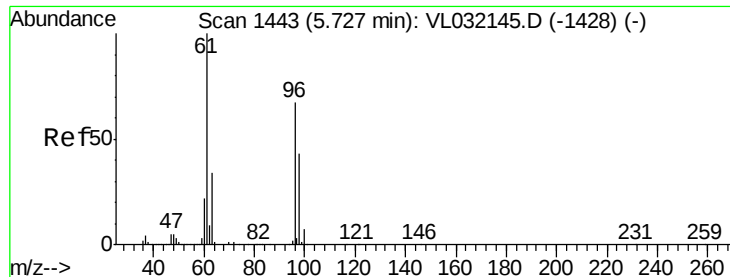
Tgt Ion: 83 Resp: 281132
Ion Ratio Lower Upper
83 100
85 58.2 51.6 77.4



#30
Cyclohexane
Concen: 0.970 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion: 84 Resp: 158002
Ion Ratio Lower Upper
84 100
56 190.1 109.1 163.7#
41 81.5 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 0.906 ppbv

RT: 5.72 min Scan# 1441

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

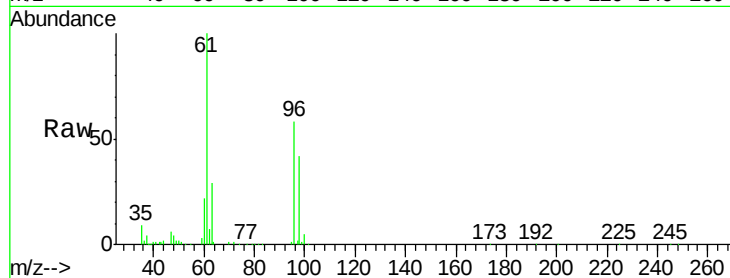
Tgt Ion: 61 Resp: 156582

Ion Ratio Lower Upper

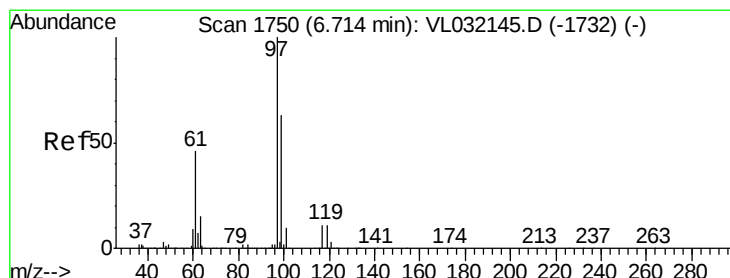
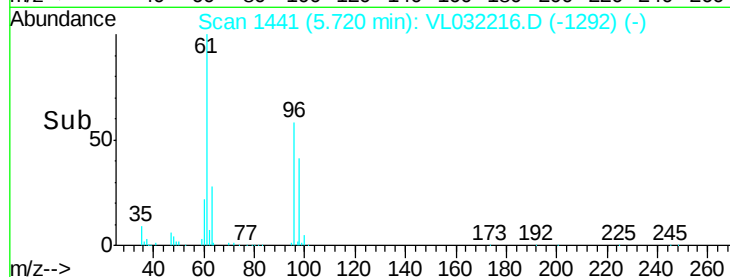
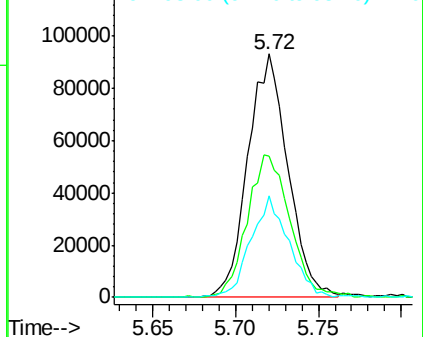
61 100

96 57.2 54.2 81.4

98 41.5 34.6 52.0



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



#32

1,1,1-Trichloroethane

Concen: 1.133 ppbv

RT: 6.70 min Scan# 1746

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

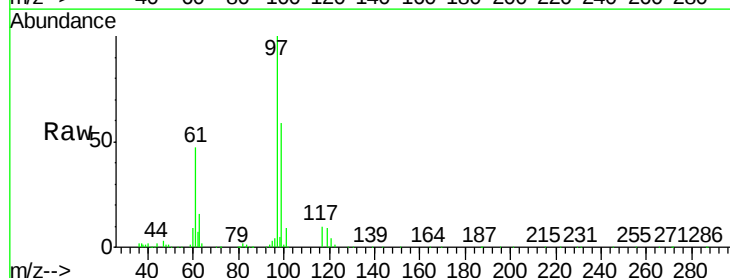
Tgt Ion: 97 Resp: 298903

Ion Ratio Lower Upper

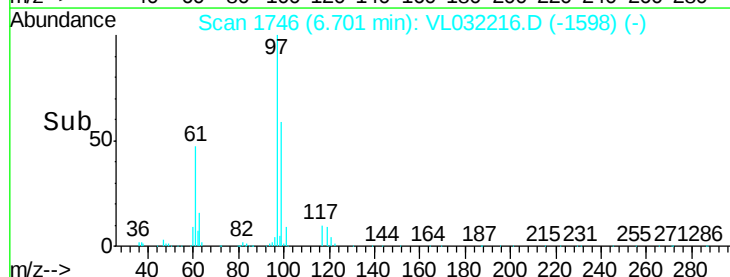
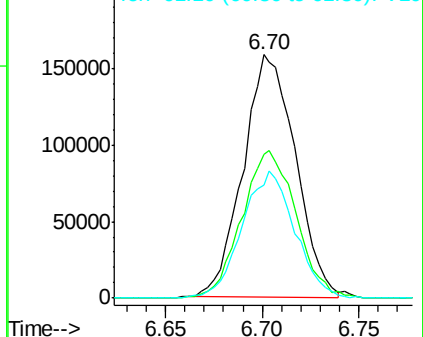
97 100

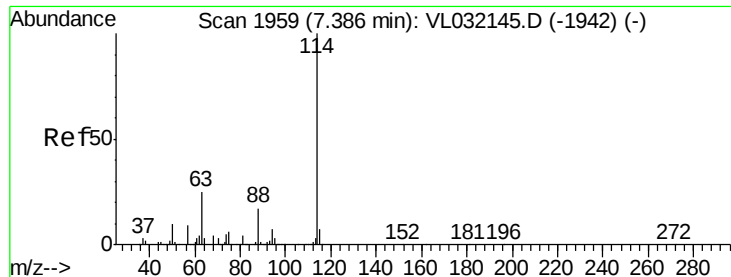
99 62.9 51.3 76.9

61 52.7 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

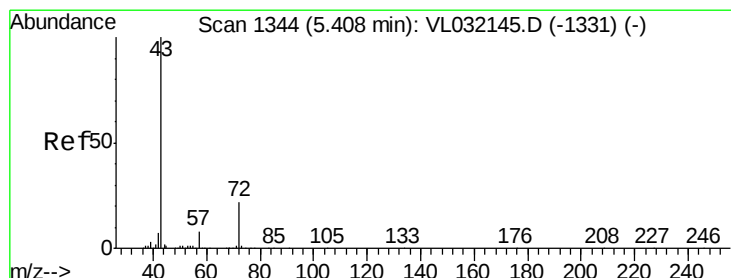
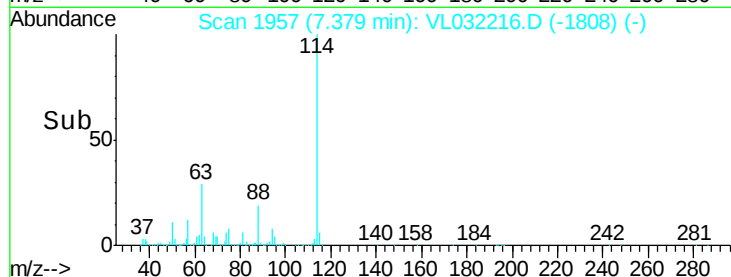
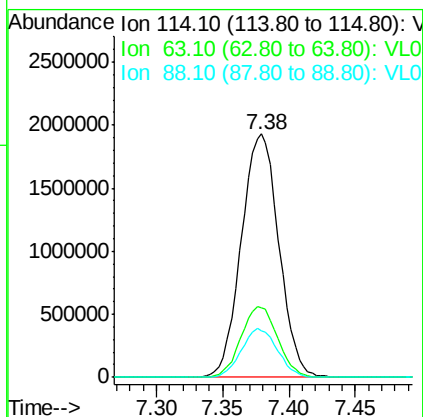
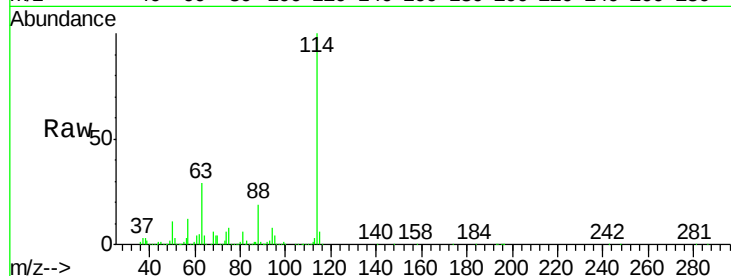




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

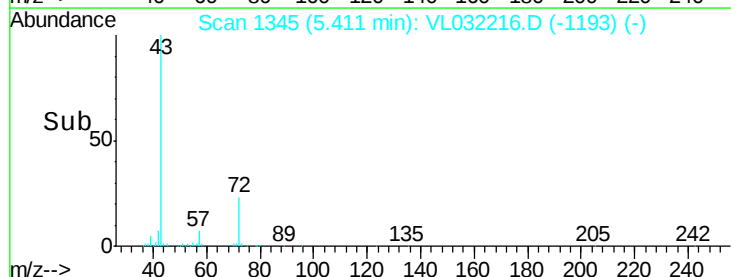
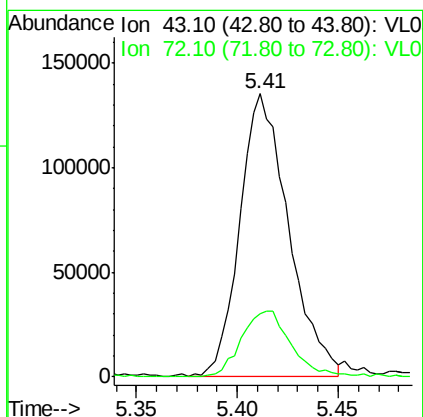
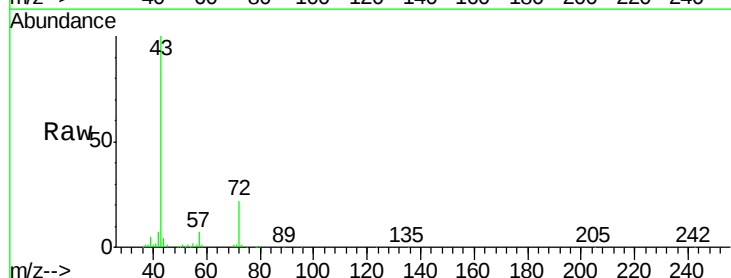
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

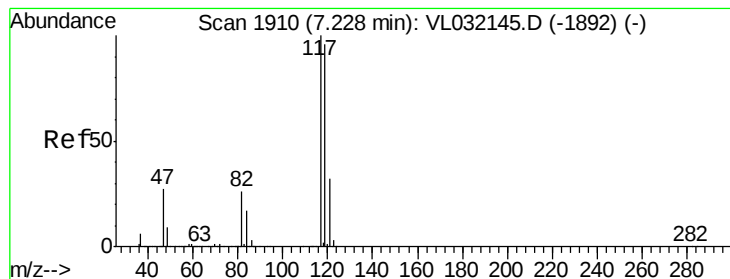
Tgt Ion:114 Resp: 3789977
 Ion Ratio Lower Upper
 114 100
 63 28.5 19.1 28.7
 88 19.4 13.9 20.9



#34
 2-Butanone
 Concen: 0.947 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion: 43 Resp: 227729
 Ion Ratio Lower Upper
 43 100
 72 24.7 18.4 27.6





#35

Carbon Tetrachloride

Concen: 1.135 ppbv

RT: 7.22 min Scan# 1908

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

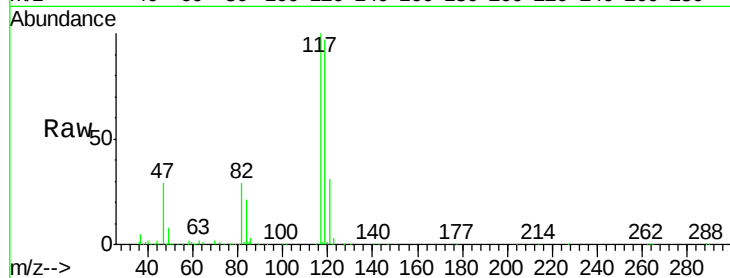
Tgt Ion:117 Resp: 294354

Ion Ratio Lower Upper

117 100

119 96.6 74.8 112.2

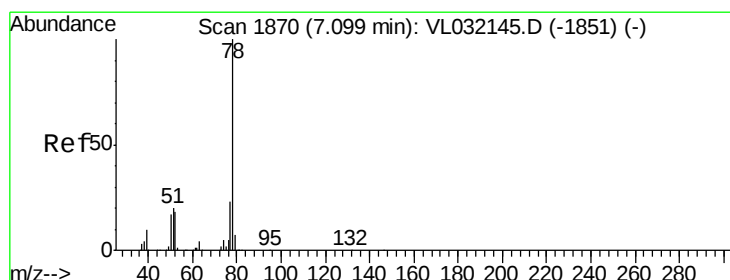
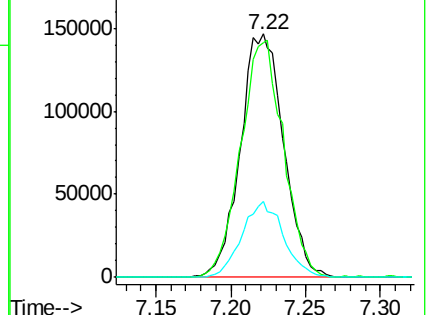
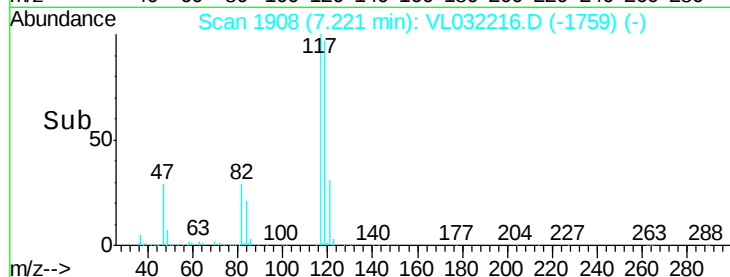
121 31.0 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.132 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

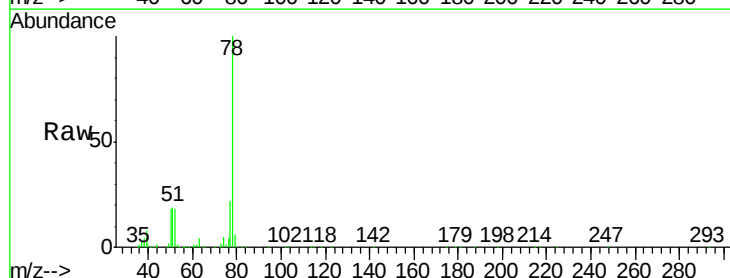
Tgt Ion: 78 Resp: 415223

Ion Ratio Lower Upper

78 100

77 21.8 17.7 26.5

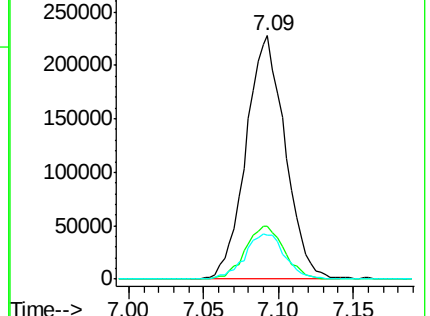
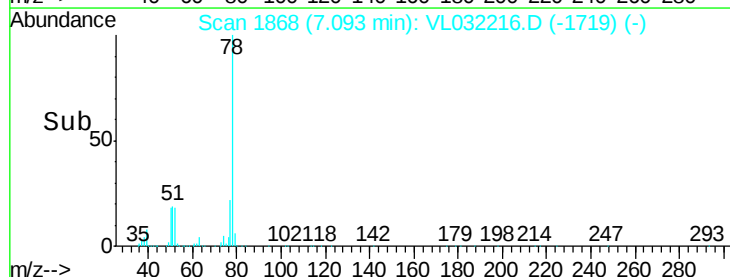
50 18.1 14.0 21.0

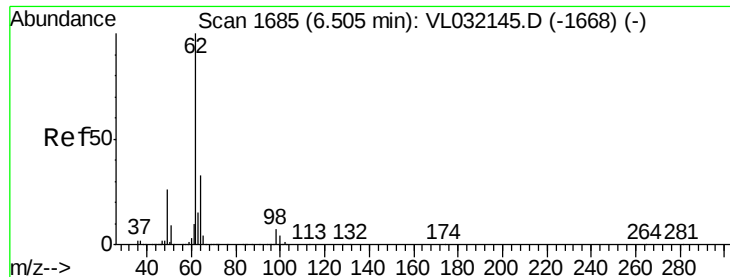


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

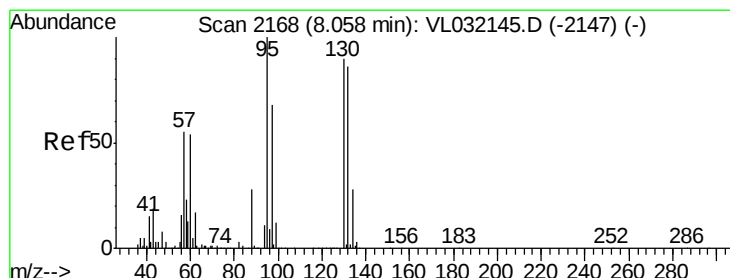
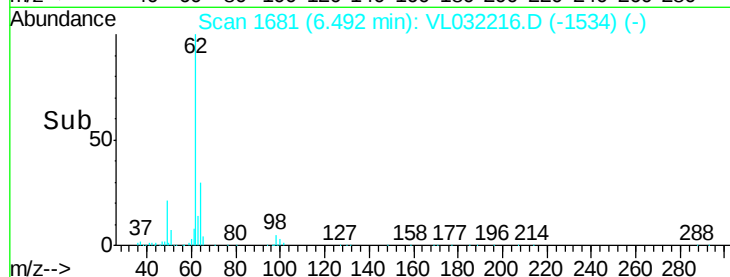
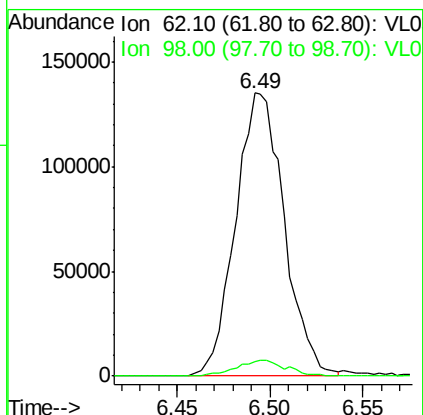
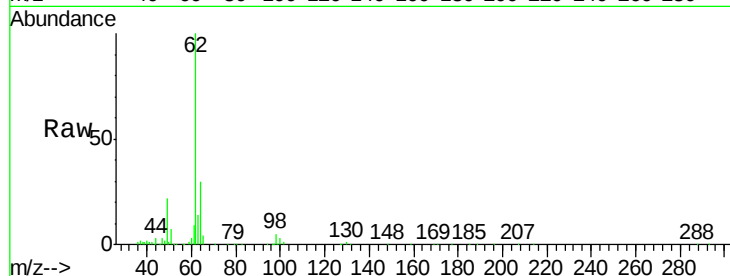




#37
 1,2-Dichloroethane
 Concen: 1.352 ppbv
 RT: 6.49 min Scan# 1681
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

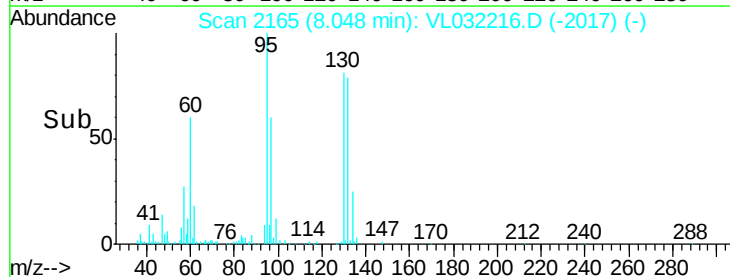
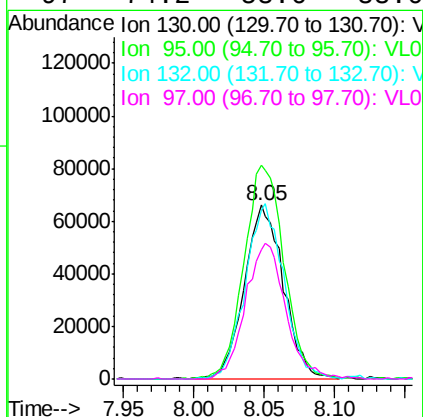
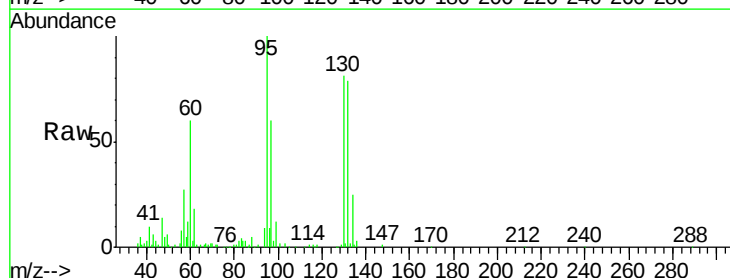
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

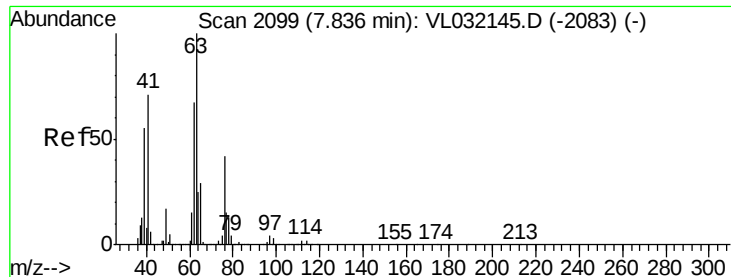
Tgt Ion: 62 Resp: 247062
 Ion Ratio Lower Upper
 62 100
 98 5.8 5.8 8.6



#38
 Trichloroethene
 Concen: 0.896 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion: 130 Resp: 128353
 Ion Ratio Lower Upper
 130 100
 95 122.6 88.1 132.1
 132 96.6 74.6 112.0
 97 74.2 58.6 88.0

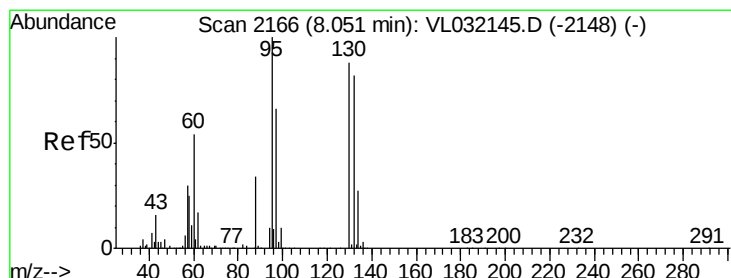
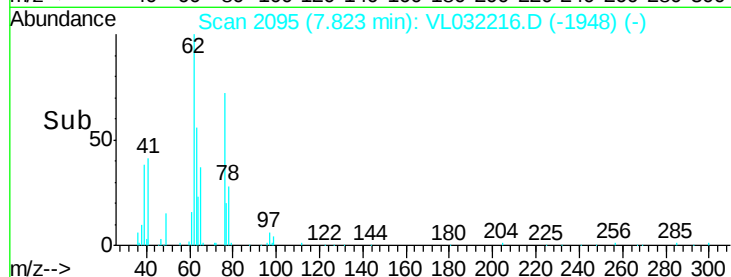
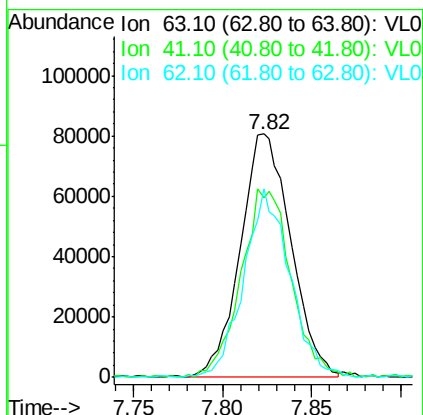
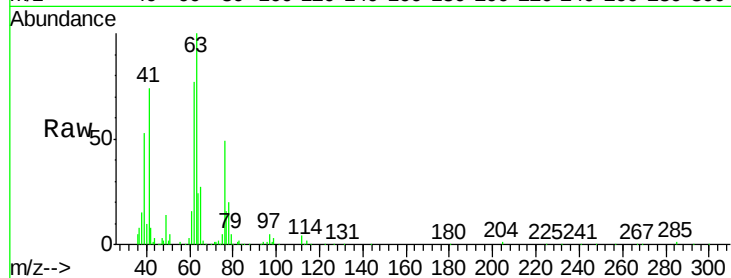




#39
 1,2-Dichloropropane
 Concen: 1.108 ppbv
 RT: 7.82 min Scan# 2095
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

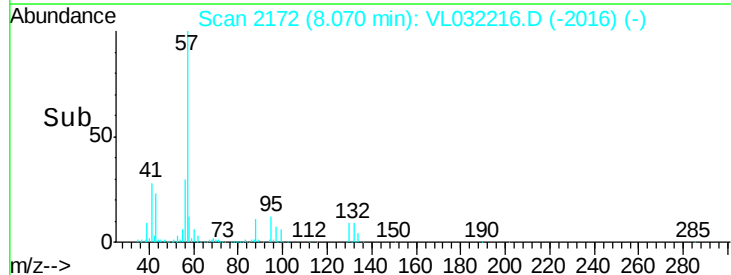
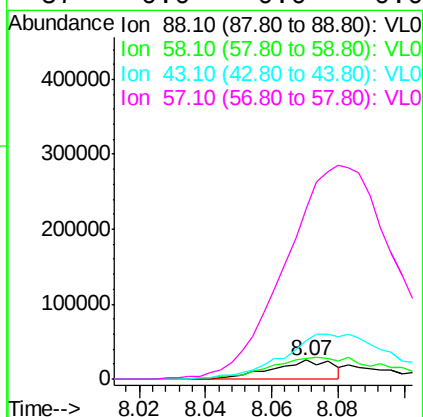
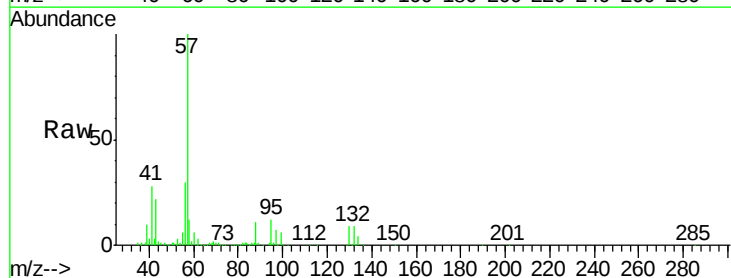
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

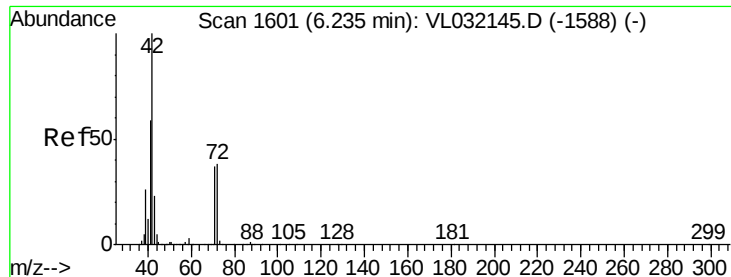
Tgt Ion	Ratio	Lower	Upper
63	100		
41	72.4	53.3	79.9
62	76.7	54.8	82.2



#40
 1,4-Dioxane
 Concen: 0.560 ppbv
 RT: 8.07 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	47.4	71.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.875 ppbv

RT: 6.25 min Scan# 1605

Delta R.T. -0.00 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

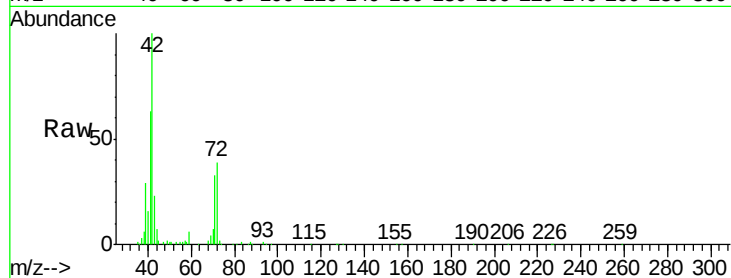
Tgt Ion: 42 Resp: 126135

Ion Ratio Lower Upper

42 100

72 39.1 31.1 46.7

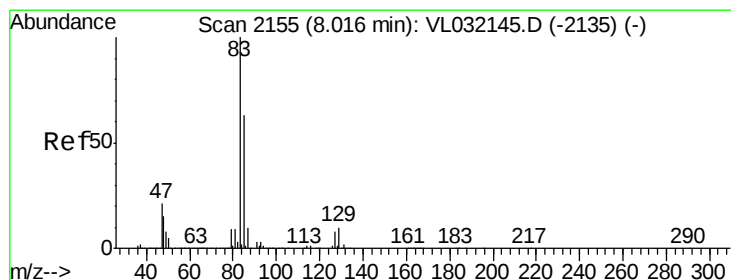
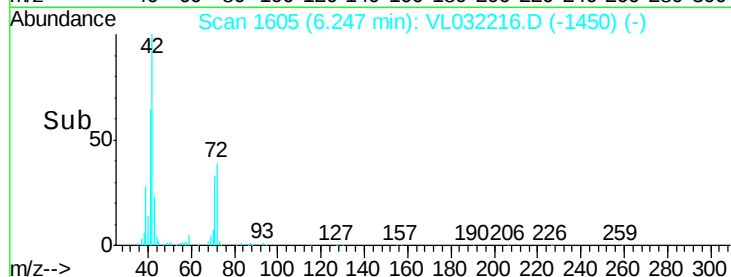
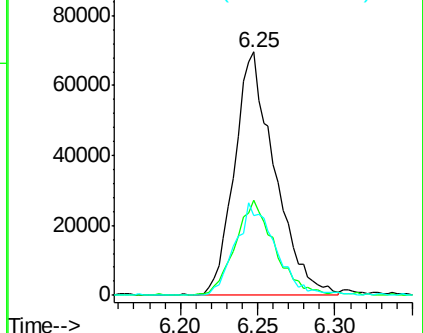
71 37.9 29.5 44.3



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: 0.993 ppbv

RT: 8.01 min Scan# 2152

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

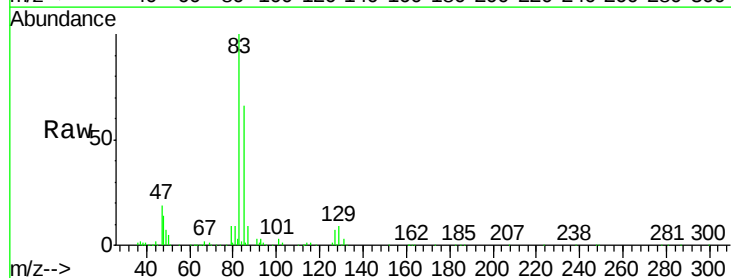
Tgt Ion: 83 Resp: 284373

Ion Ratio Lower Upper

83 100

85 65.7 52.6 79.0

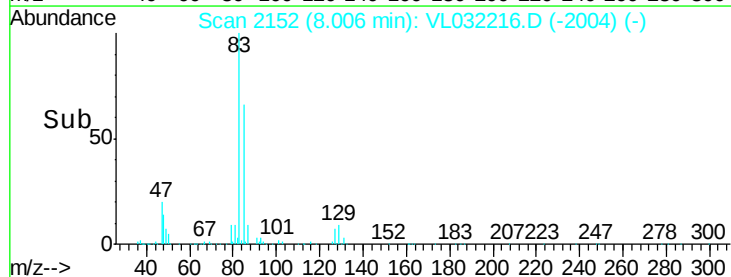
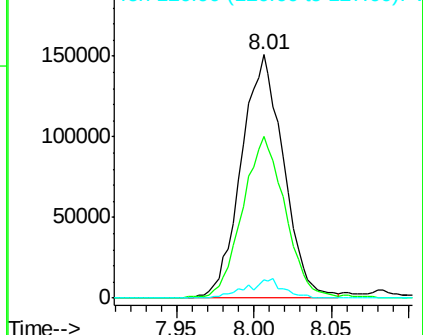
127 7.4 6.5 9.7

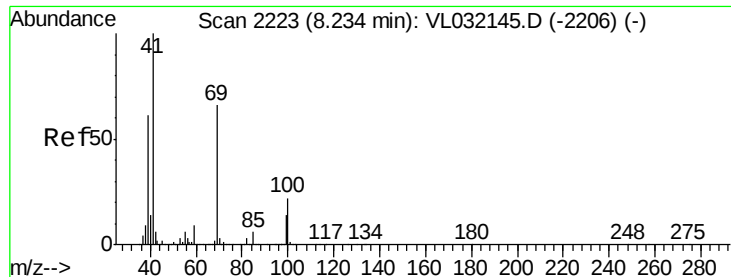


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

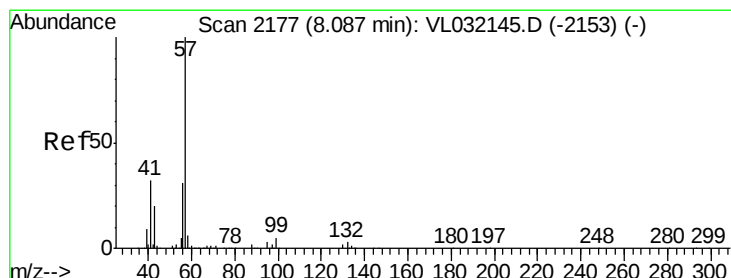
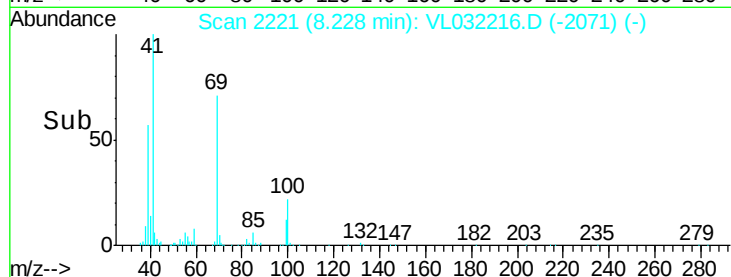
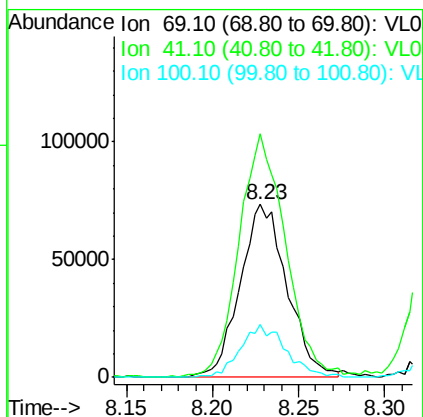
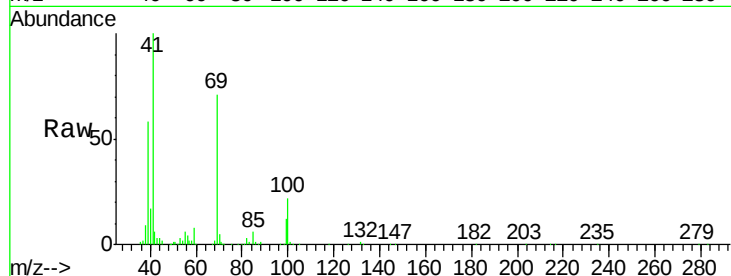




#43
Methyl Methacrylate
Concen: 0.909 ppbv
RT: 8.23 min Scan# 2221
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

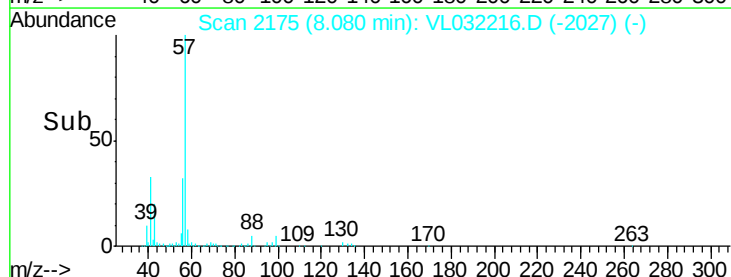
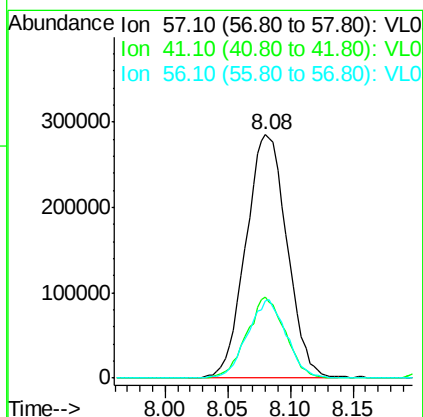
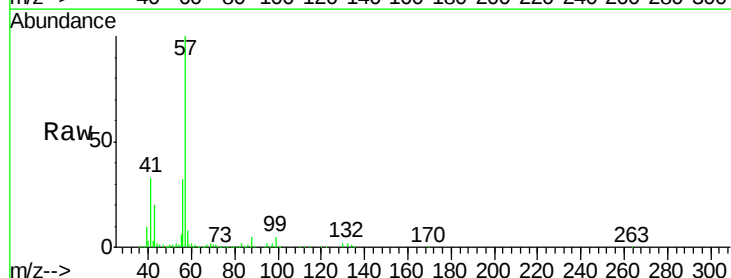
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

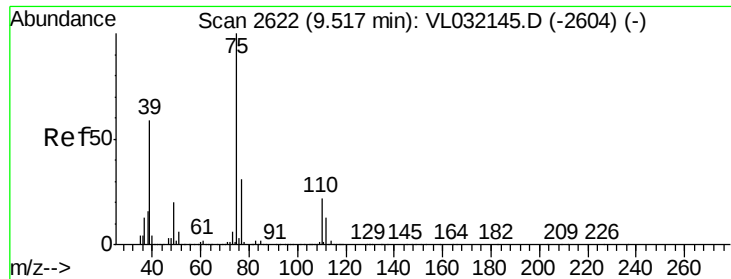
Tgt Ion: 69 Resp: 138145
Ion Ratio Lower Upper
69 100
41 140.0 118.2 177.4
100 29.7 27.4 41.2



#44
2,2,4-Trimethylpentane
Concen: 1.016 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion: 57 Resp: 652004
Ion Ratio Lower Upper
57 100
41 31.1 24.3 36.5
56 30.5 25.1 37.7

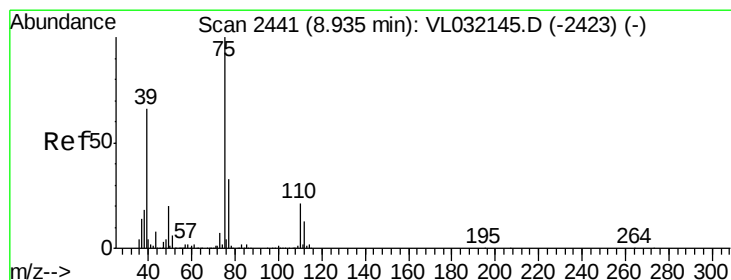
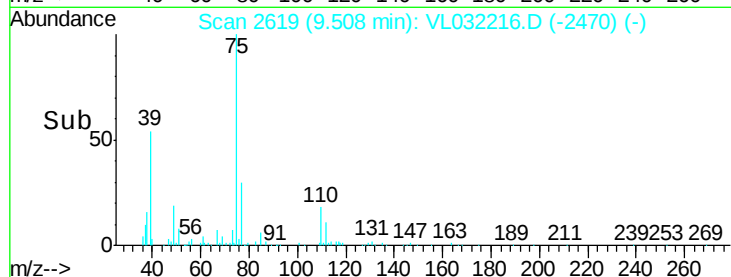
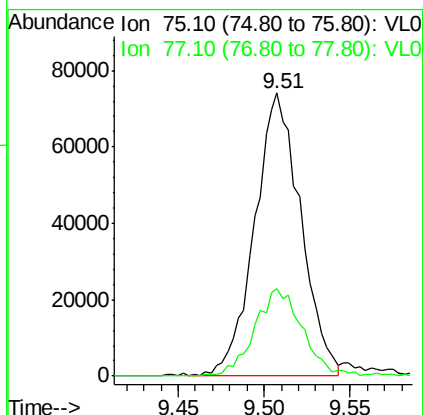
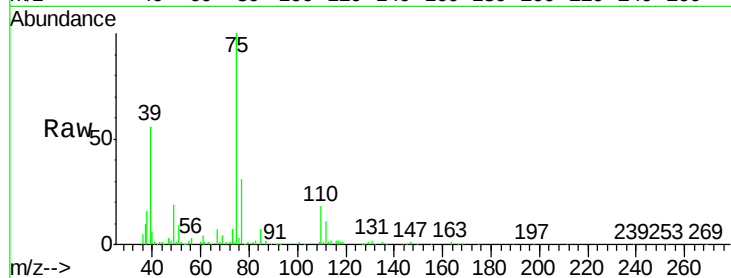




#45
 t-1,3-Dichloropropene
 Concen: 0.728 ppbv
 RT: 9.51 min Scan# 2619
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

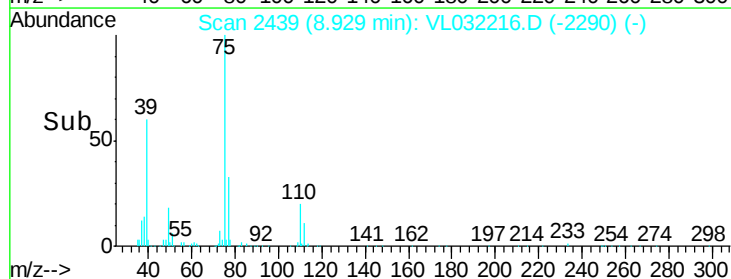
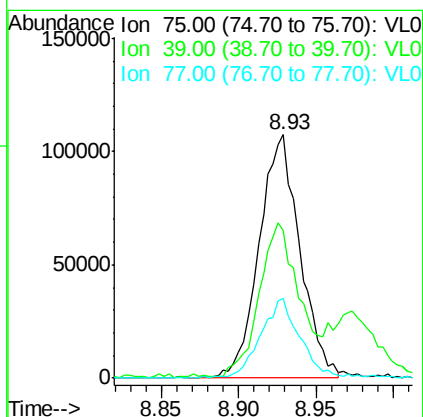
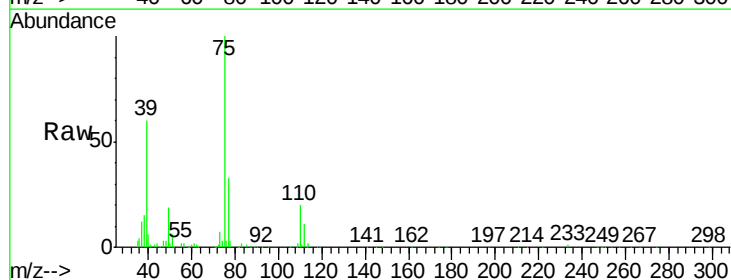
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

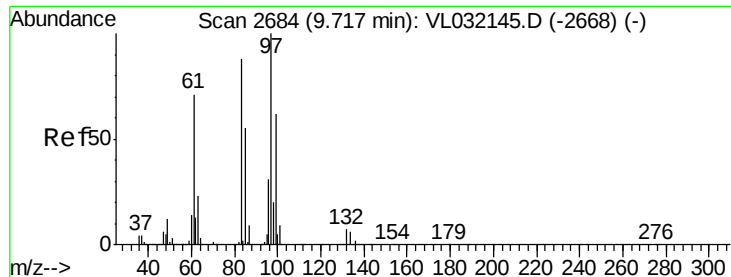
Tgt Ion: 75 Resp: 137094
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.6 38.4



#46
 cis-1,3-Dichloropropene
 Concen: 0.876 ppbv
 RT: 8.93 min Scan# 2439
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion: 75 Resp: 196948
 Ion Ratio Lower Upper
 75 100
 39 59.7 51.9 77.9
 77 32.7 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 1.203 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tgt Ion: 97 Resp: 180964

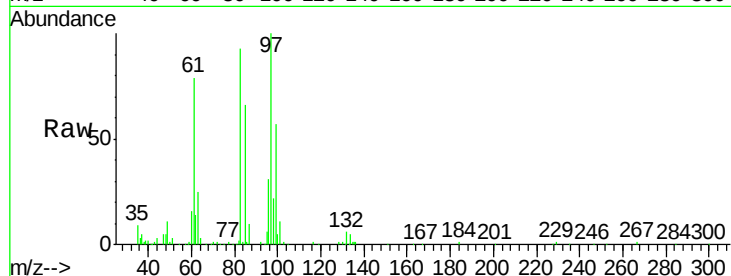
Ion Ratio Lower Upper

97 100

83 92.3 71.0 106.4

85 64.7 44.2 66.4

99 56.5 49.2 73.8

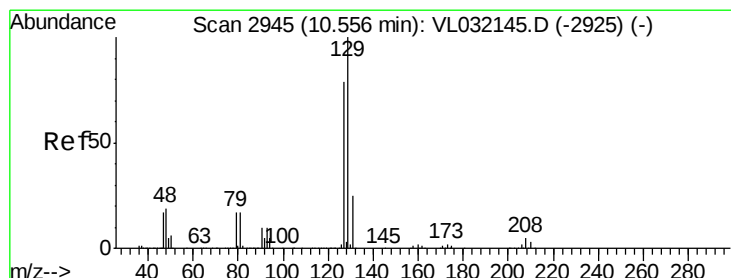
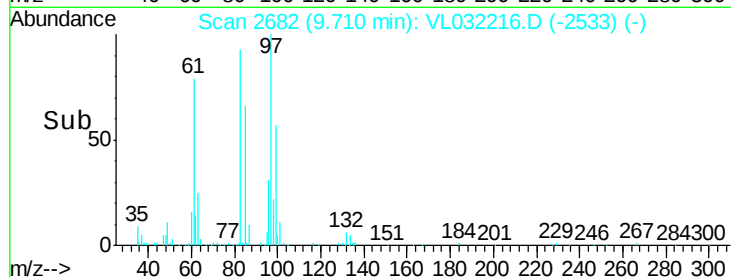
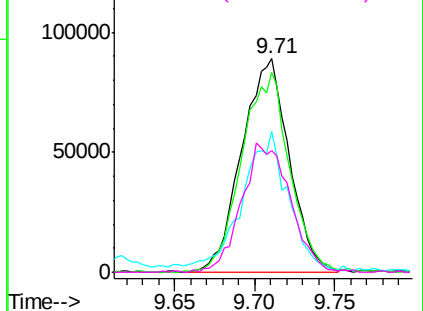


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 1.085 ppbv

RT: 10.54 min Scan# 2941

Delta R.T. -0.03 min

Lab File: VL032216.D

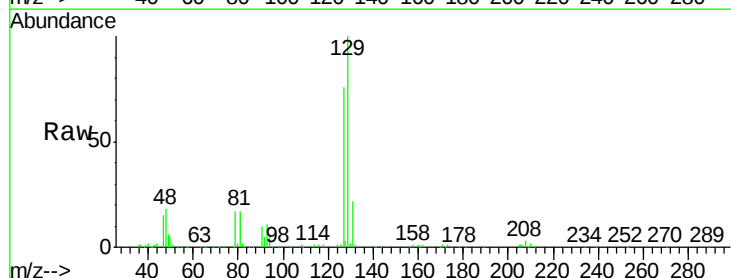
Acq: 5 Jul 2018 23:22

Tgt Ion: 129 Resp: 252516

Ion Ratio Lower Upper

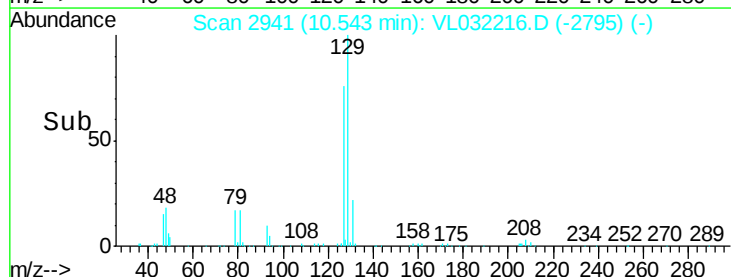
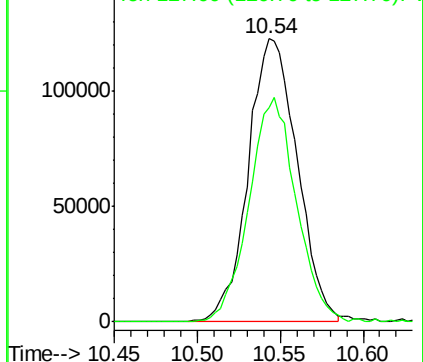
129 100

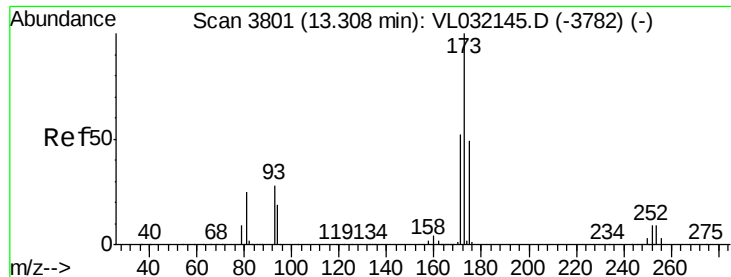
127 77.0 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.986 ppbv

RT: 13.30 min Scan# 3797

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

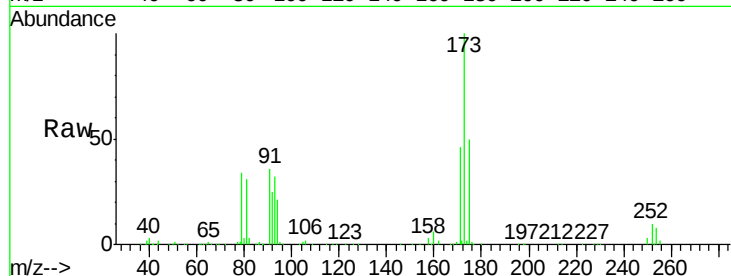
Tgt Ion: 173 Resp: 192167

Ion Ratio Lower Upper

173 100

175 48.6 39.4 59.0

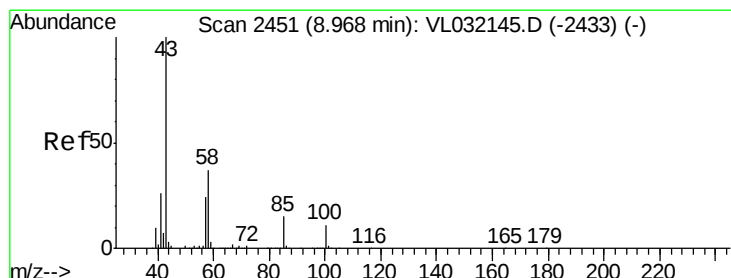
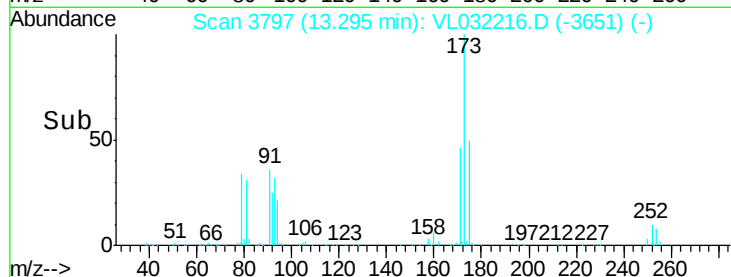
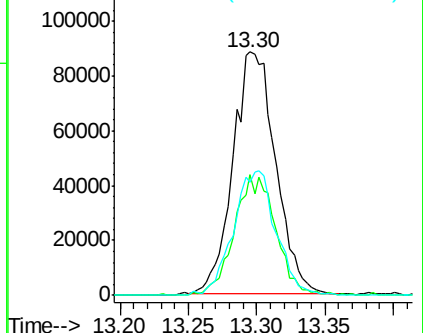
171 51.7 41.8 62.8



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: 0.980 ppbv

RT: 8.97 min Scan# 2452

Delta R.T. -0.01 min

Lab File: VL032216.D

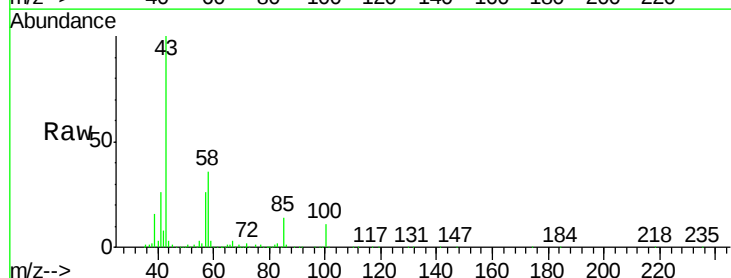
Acq: 5 Jul 2018 23:22

Tgt Ion: 43 Resp: 386316

Ion Ratio Lower Upper

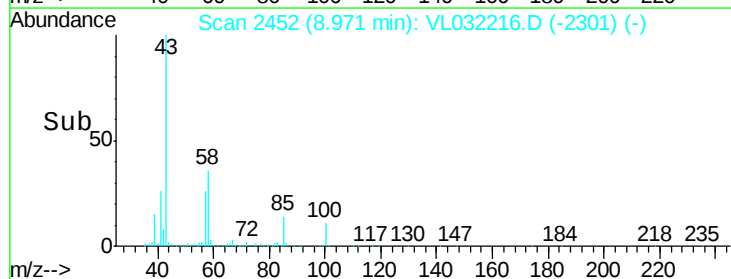
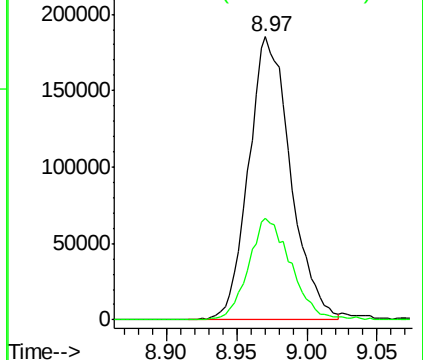
43 100

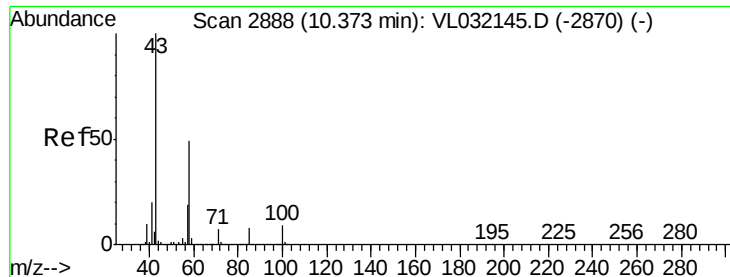
58 36.5 29.8 44.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 1.123 ppbv

RT: 10.38 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

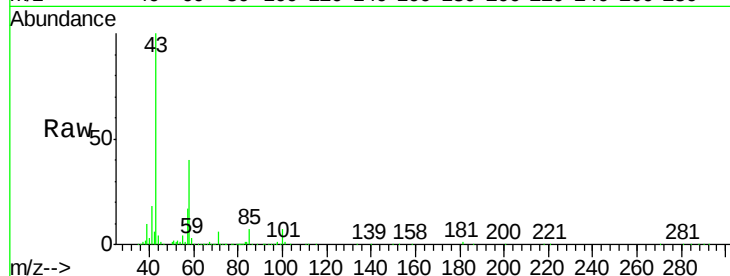
Tgt Ion: 43 Resp: 366929

Ion Ratio Lower Upper

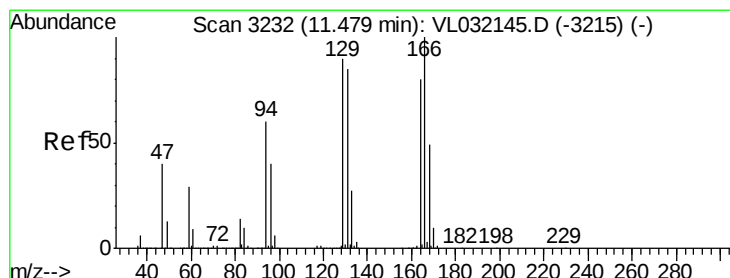
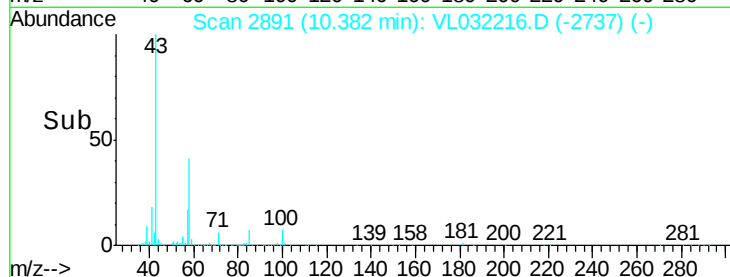
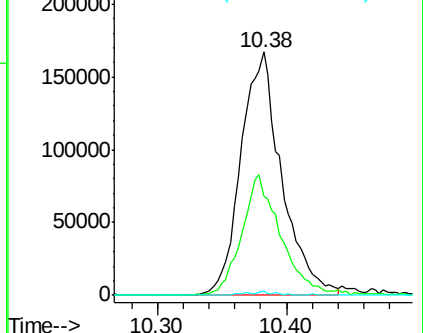
43 100

58 48.3 40.6 60.8

98 1.1 0.1 0.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 1.026 ppbv

RT: 11.47 min Scan# 3229

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion: 164 Resp: 136918

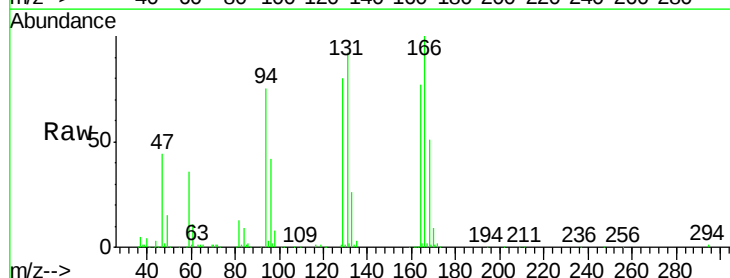
Ion Ratio Lower Upper

164 100

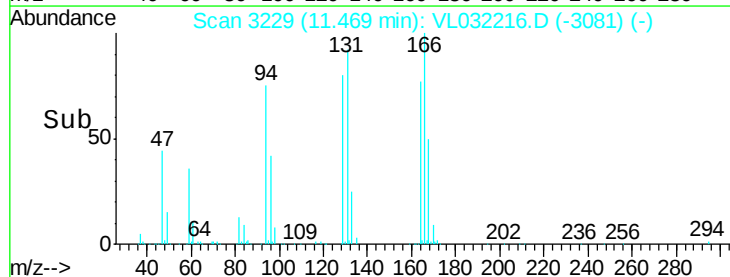
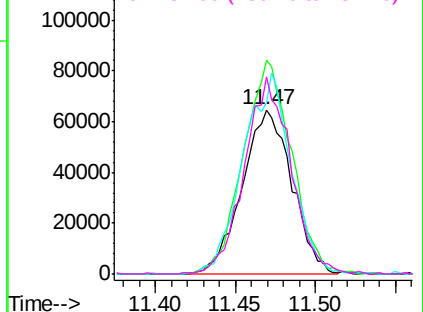
166 129.3 100.6 151.0

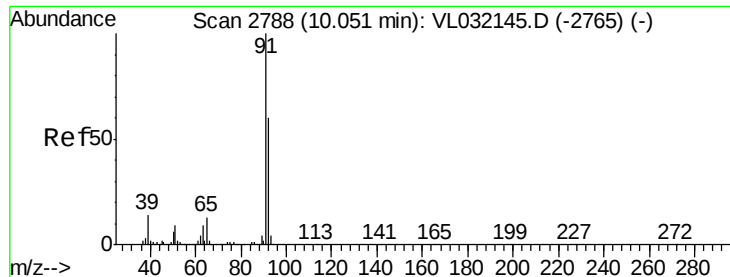
129 103.5 84.0 126.0

131 119.3 82.7 124.1



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.017 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

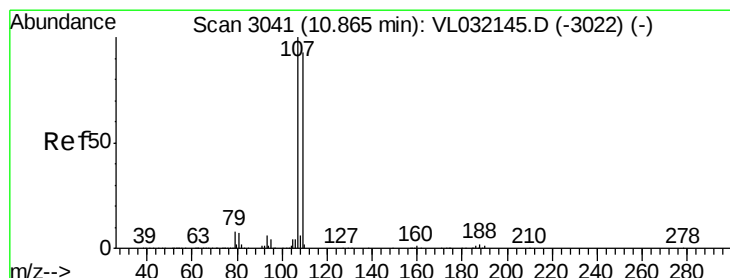
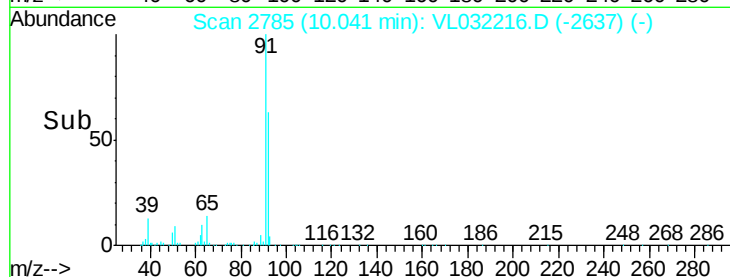
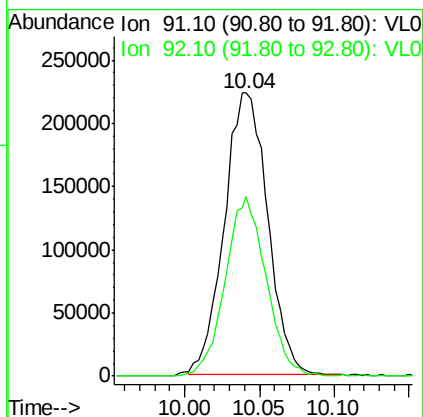
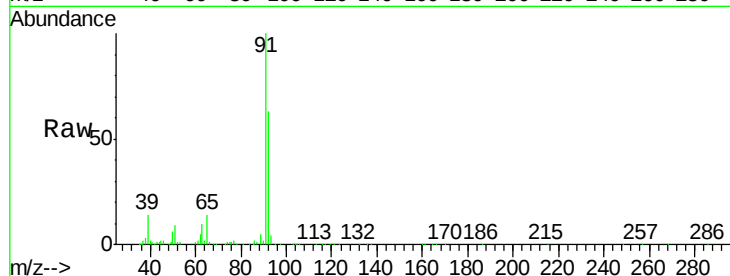
LOQ-AIR-02-QT3-2018

Tgt Ion: 91 Resp: 450754

Ion Ratio Lower Upper

91 100

92 59.9 49.2 73.8



#54

1,2-Dibromoethane

Concen: 1.176 ppbv

RT: 10.85 min Scan# 3038

Delta R.T. -0.02 min

Lab File: VL032216.D

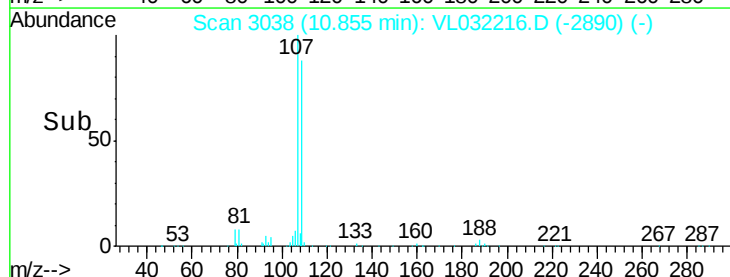
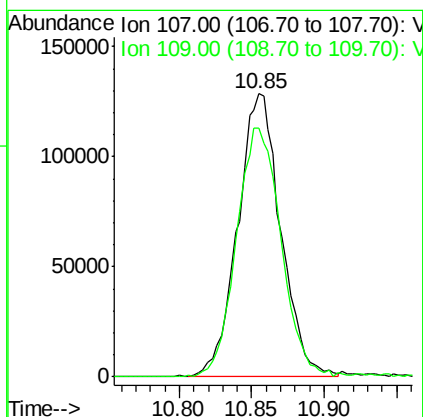
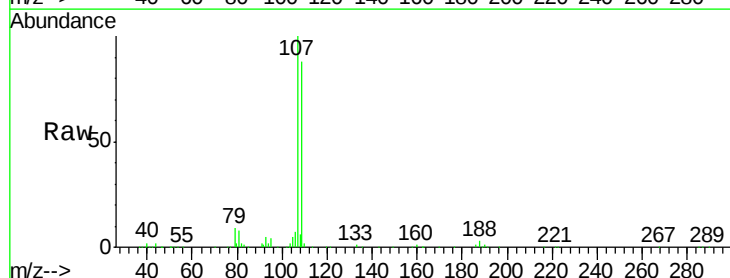
Acq: 5 Jul 2018 23:22

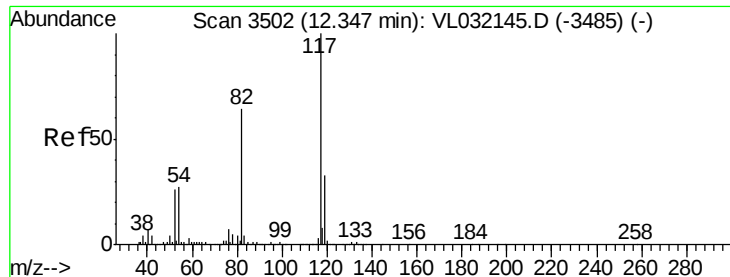
Tgt Ion: 107 Resp: 265785

Ion Ratio Lower Upper

107 100

109 87.6 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3499

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

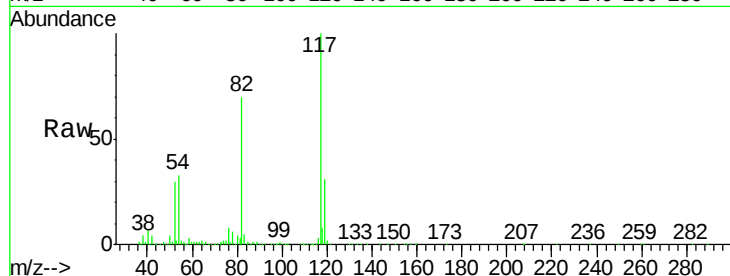
Tgt Ion:117 Resp: 3919796

Ion Ratio Lower Upper

117 100

82 68.7 47.8 71.8

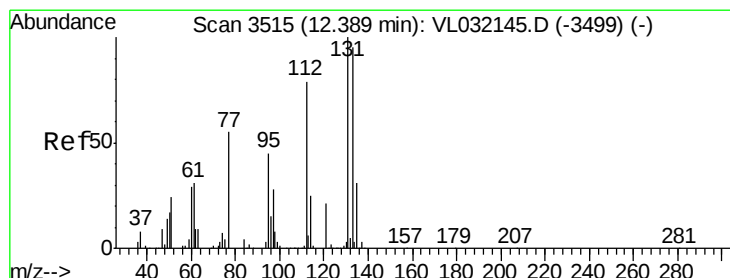
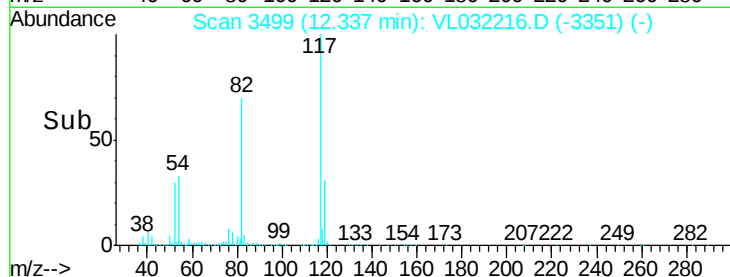
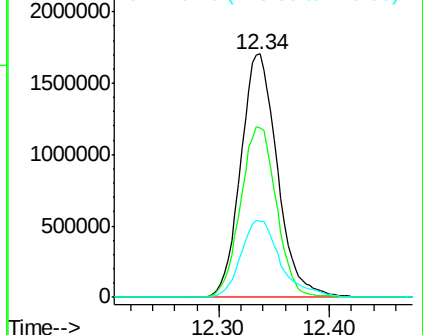
119 34.3 43.3 64.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 1.148 ppbv

RT: 12.38 min Scan# 3513

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

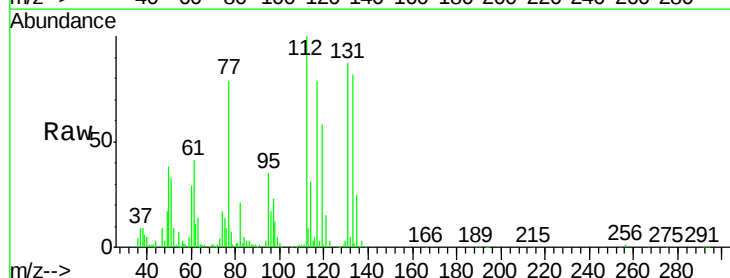
Tgt Ion:131 Resp: 200948

Ion Ratio Lower Upper

131 100

133 96.9 75.5 113.3

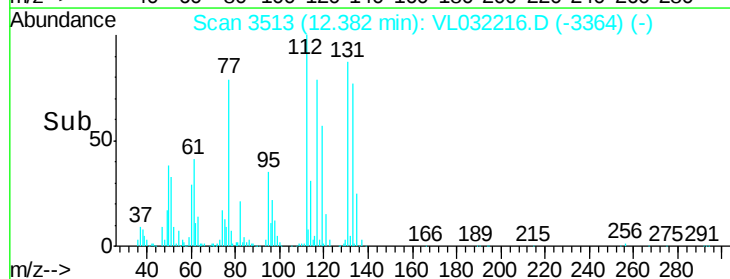
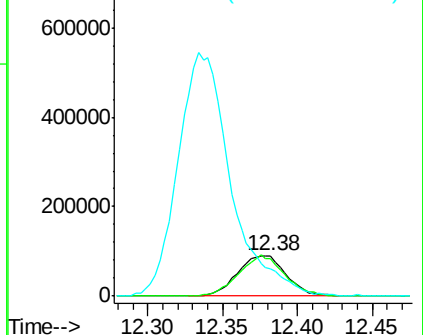
119 669.5 118.4 177.6#

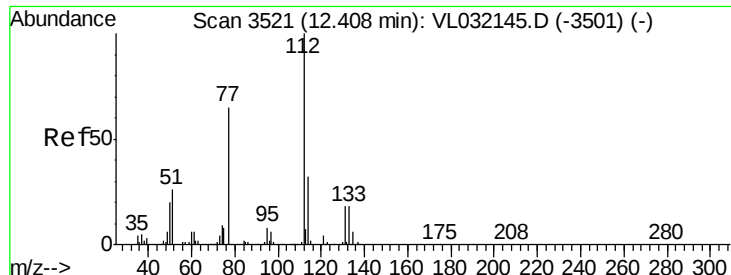


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 1.179 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

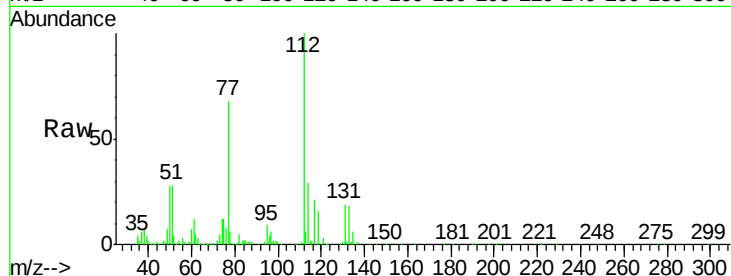
Tgt Ion: 112 Resp: 400399

Ion Ratio Lower Upper

112 100

77 66.9 52.6 78.8

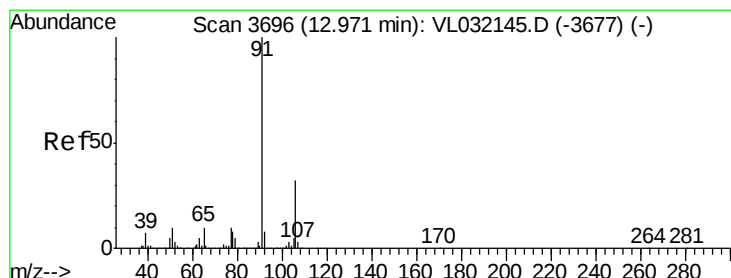
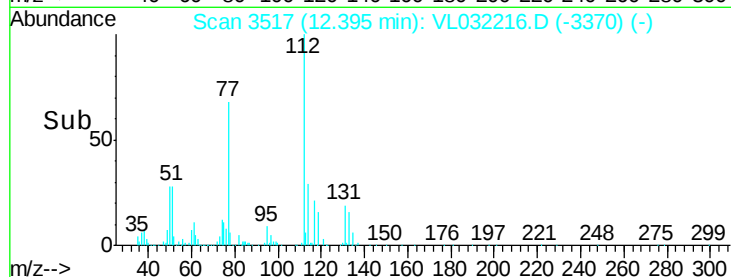
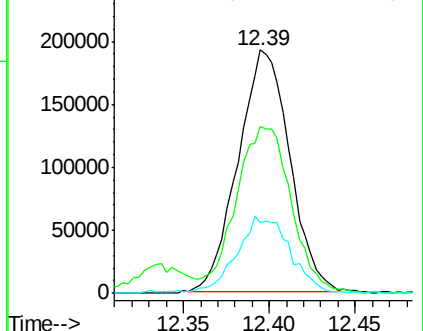
114 28.4 27.9 34.1



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: 1.056 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. -0.02 min

Lab File: VL032216.D

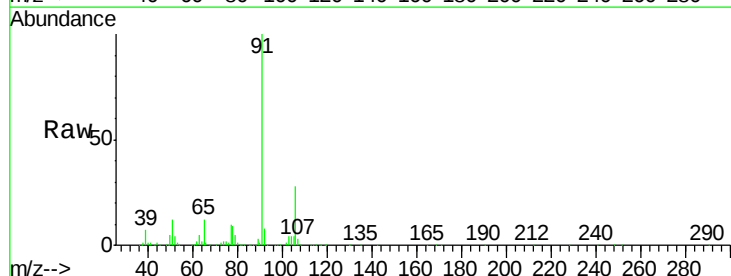
Acq: 5 Jul 2018 23:22

Tgt Ion: 91 Resp: 666813

Ion Ratio Lower Upper

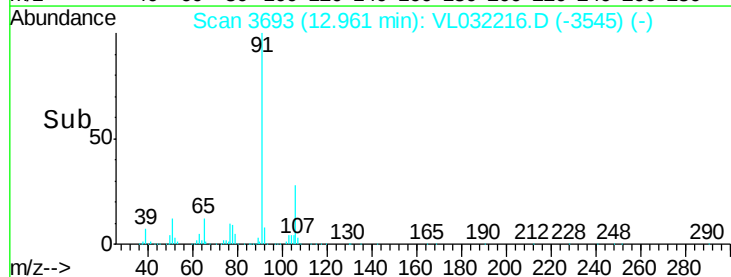
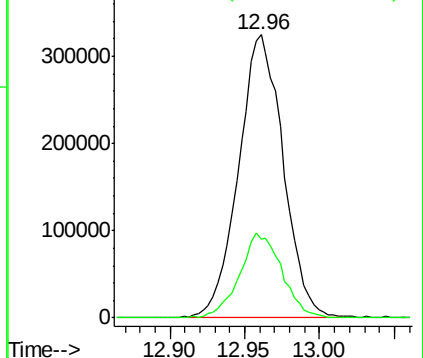
91 100

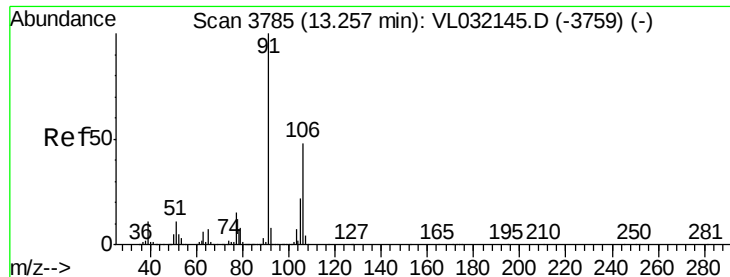
106 27.9 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.718 ppbv

RT: 13.25 min Scan# 3782

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

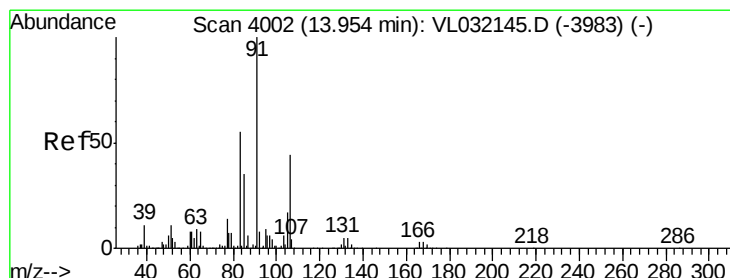
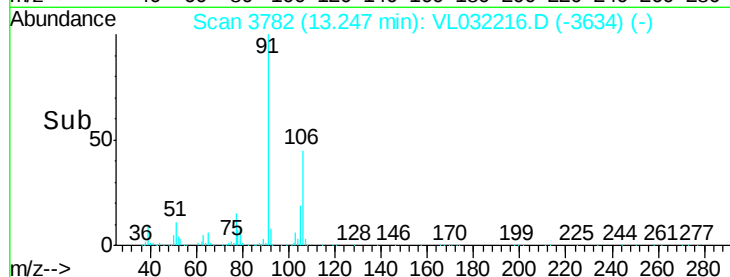
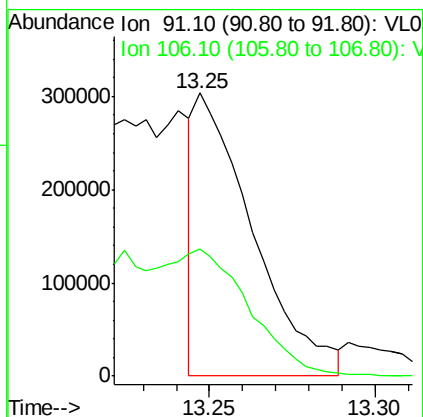
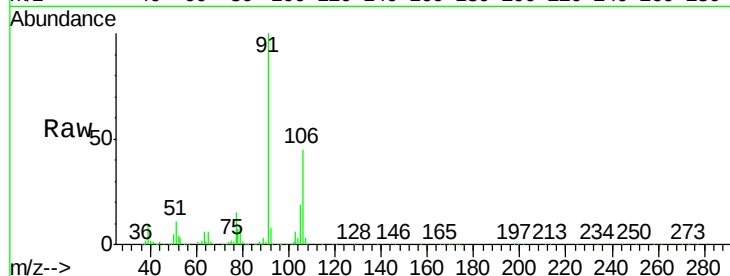
LOQ-AIR-02-QT3-2018

Tgt Ion: 91 Resp: 363476

Ion Ratio Lower Upper

91 100

106 137.2 38.6 58.0#



#60

o-Xylene

Concen: 1.131 ppbv

RT: 13.94 min Scan# 3999

Delta R.T. -0.03 min

Lab File: VL032216.D

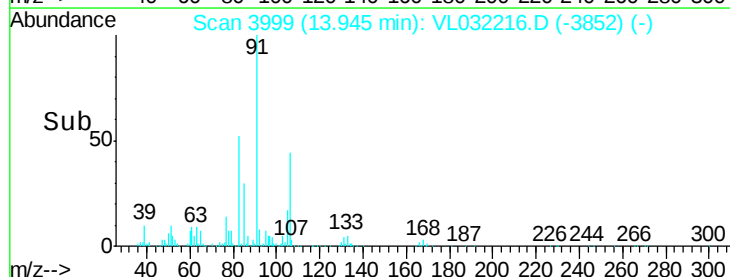
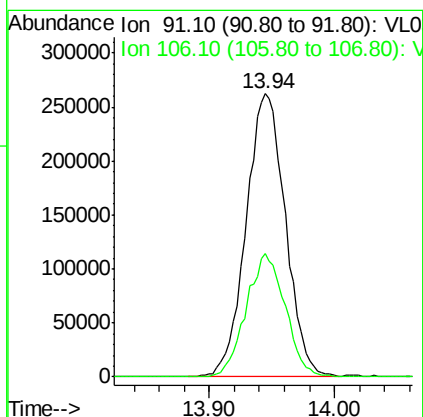
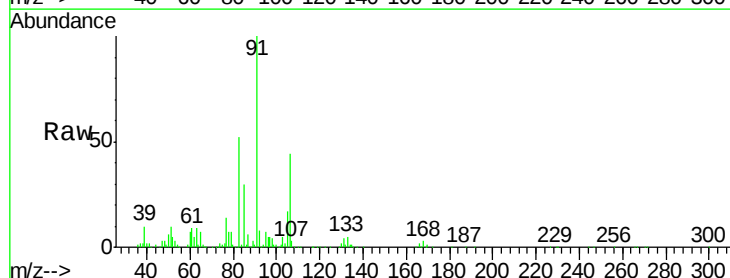
Acq: 5 Jul 2018 23:22

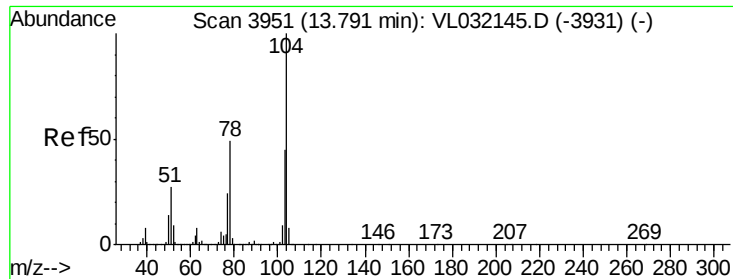
Tgt Ion: 91 Resp: 570992

Ion Ratio Lower Upper

91 100

106 43.6 23.3 69.8





#61

Styrene

Concen: 0.963 ppbv

RT: 13.78 min Scan# 3948

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

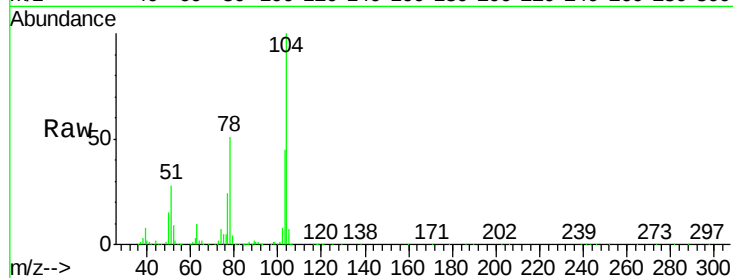
Tgt Ion:104 Resp: 398374

Ion Ratio Lower Upper

104 100

78 55.2 37.9 56.9

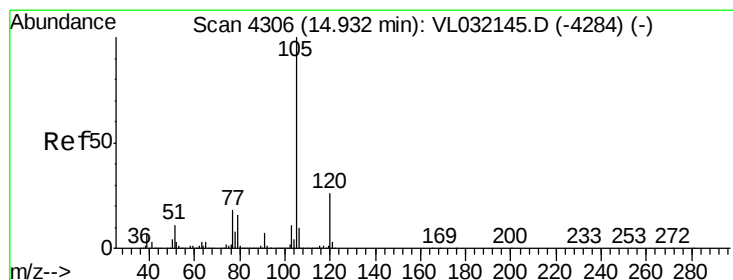
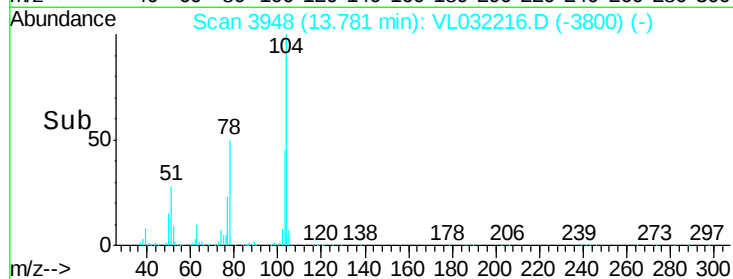
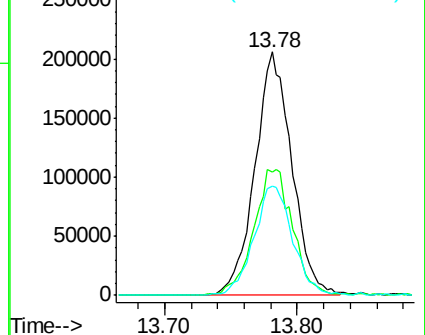
103 47.1 36.6 55.0



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: 1.014 ppbv

RT: 14.92 min Scan# 4303

Delta R.T. -0.03 min

Lab File: VL032216.D

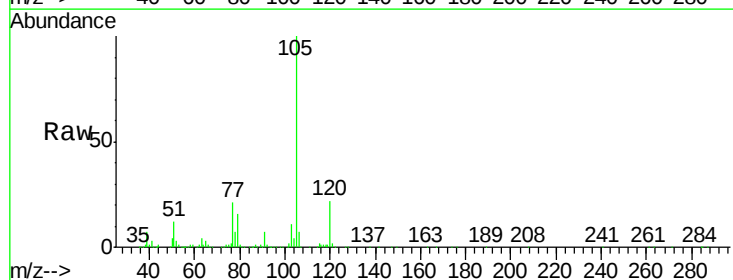
Acq: 5 Jul 2018 23:22

Tgt Ion:105 Resp: 787735

Ion Ratio Lower Upper

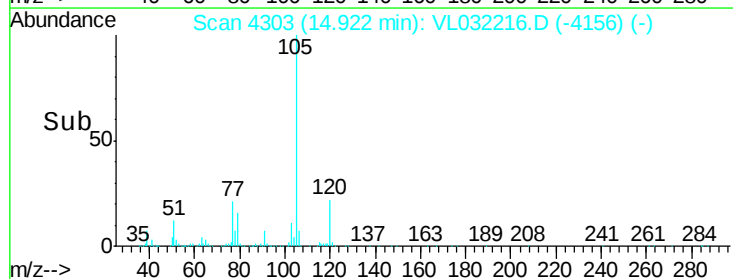
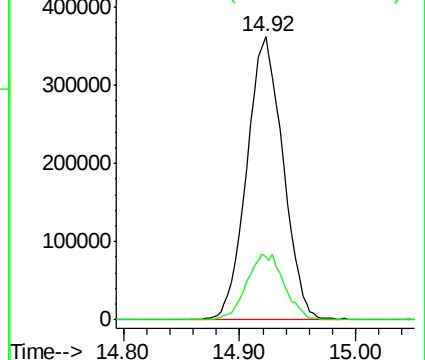
105 100

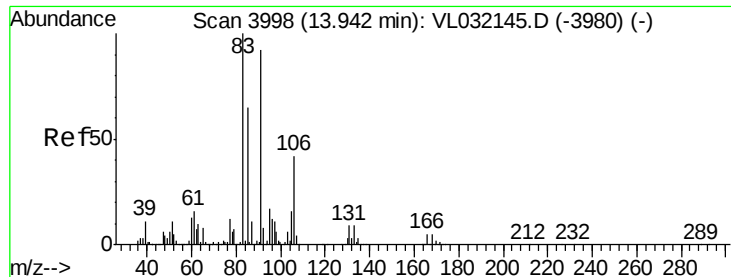
120 23.9 21.0 31.4



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: 1.189 ppbv

RT: 13.93 min Scan# 3995

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

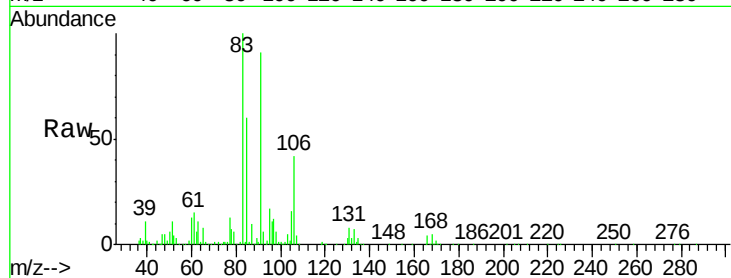
Tgt Ion: 83 Resp: 464823

Ion Ratio Lower Upper

83 100

131 8.6 4.6 13.8

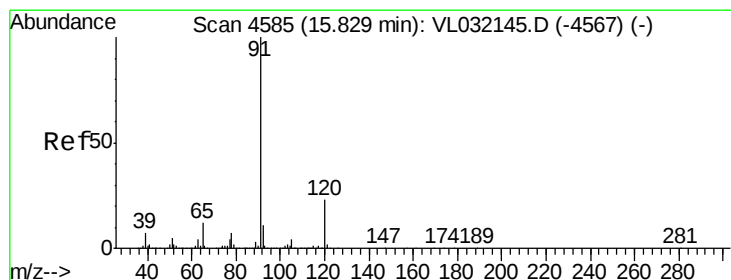
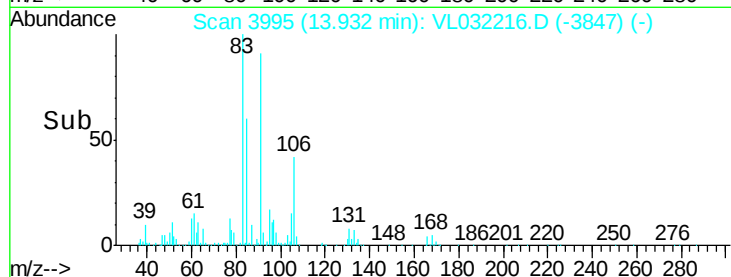
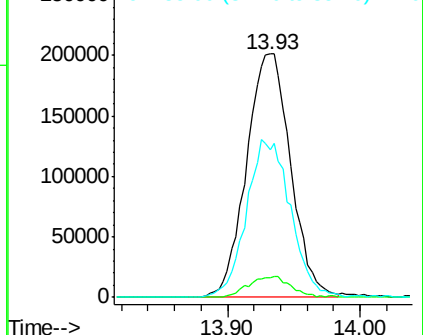
85 65.3 32.4 97.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.948 ppbv

RT: 15.82 min Scan# 4581

Delta R.T. -0.03 min

Lab File: VL032216.D

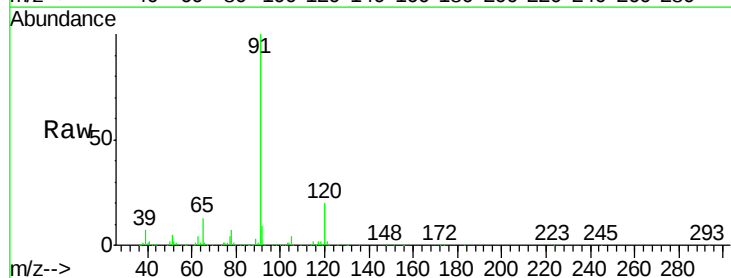
Acq: 5 Jul 2018 23:22

Tgt Ion: 120 Resp: 190452

Ion Ratio Lower Upper

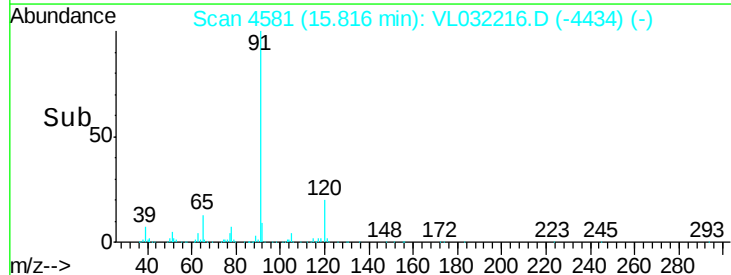
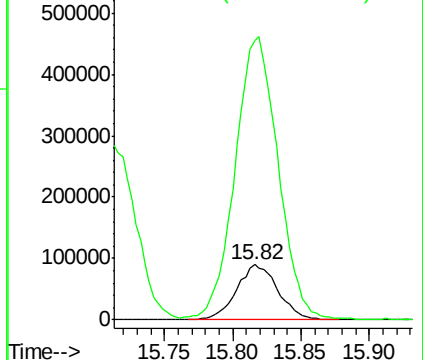
120 100

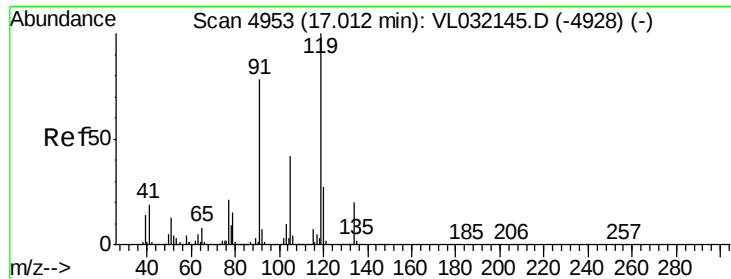
91 528.3 357.4 536.0



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

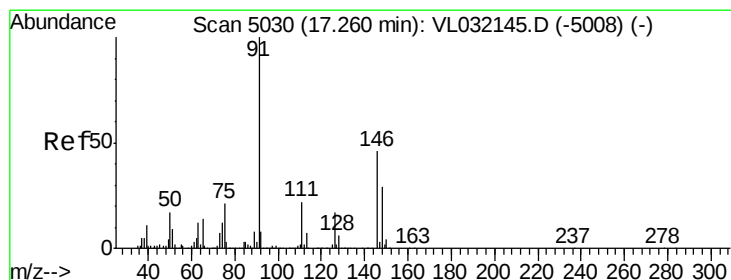
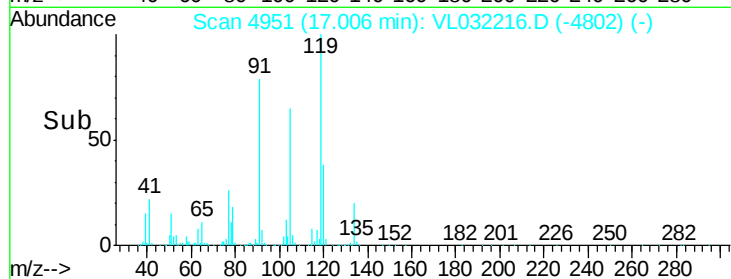
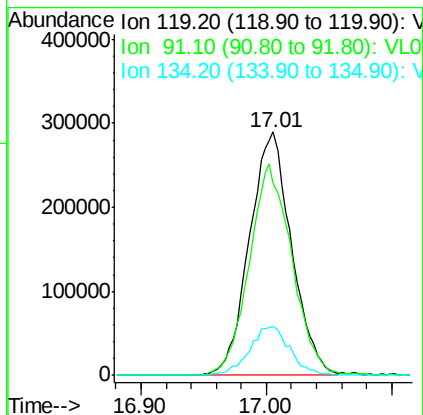
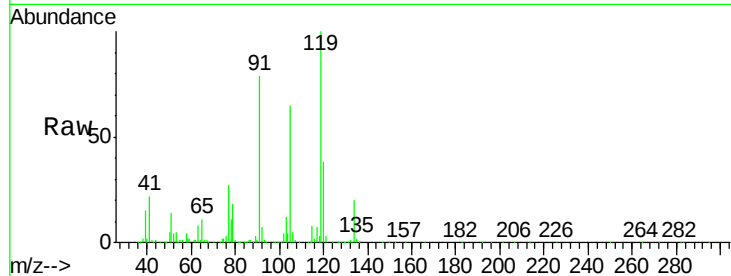




#65
 tert-Butylbenzene
 Concen: 0.987 ppbv
 RT: 17.01 min Scan# 4951
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

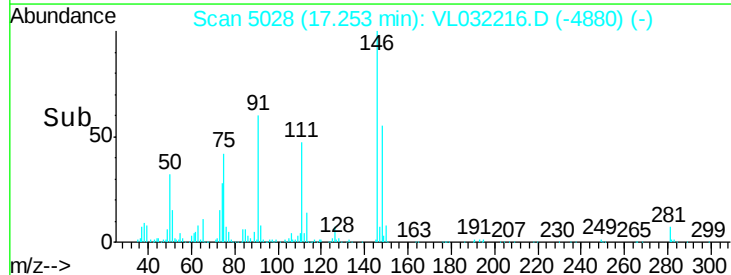
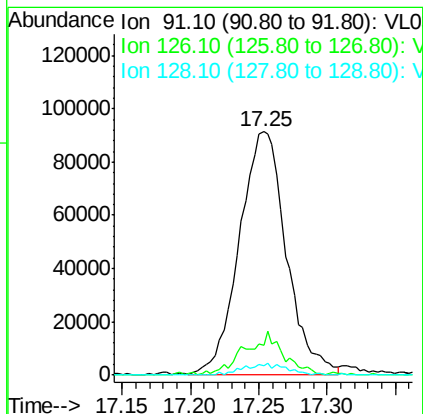
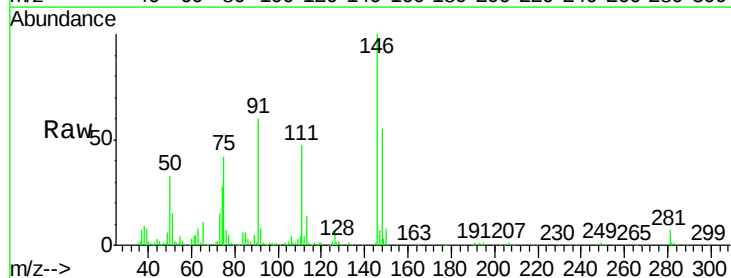
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

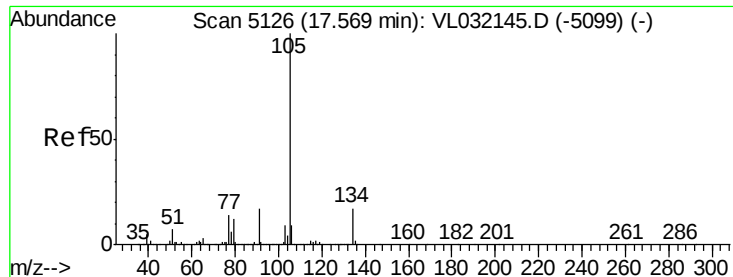
Tgt Ion: 119 Resp: 673344
 Ion Ratio Lower Upper
 119 100
 91 88.5 62.2 93.2
 134 19.3 16.2 24.2



#66
 Benzyl Chloride
 Concen: 0.520 ppbv
 RT: 17.25 min Scan# 5028
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion: 91 Resp: 219020
 Ion Ratio Lower Upper
 91 100
 126 15.5 15.7 23.5#
 128 4.7 5.2 7.8#

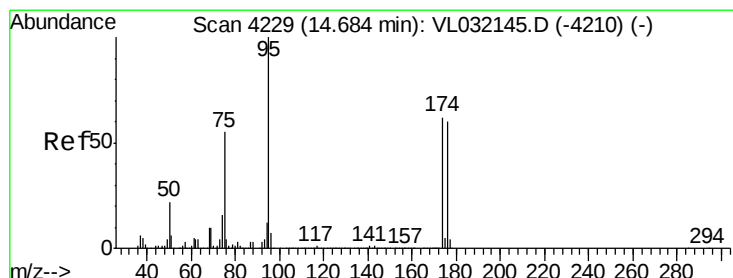
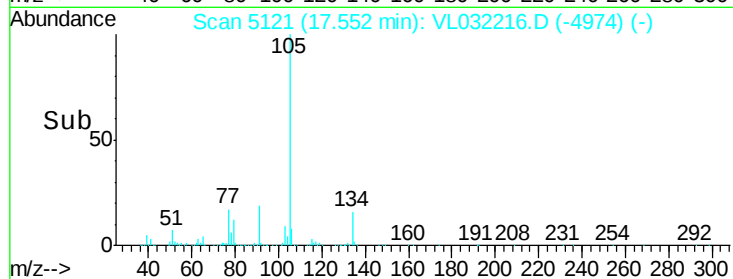
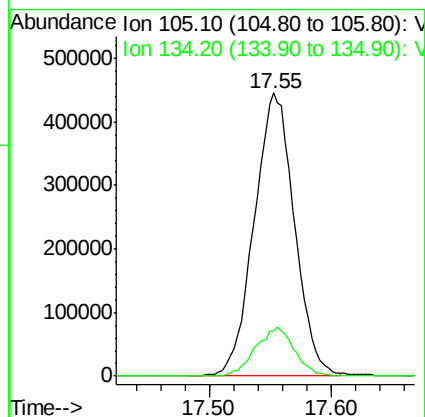
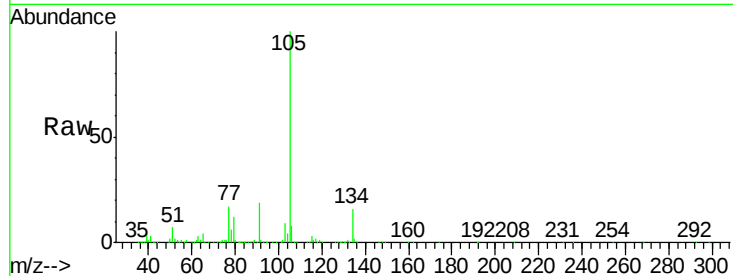




#67
 sec-Butylbenzene
 Concen: 1.017 ppbv
 RT: 17.55 min Scan# 5121
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

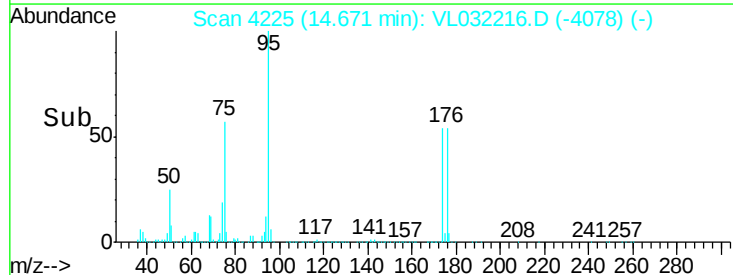
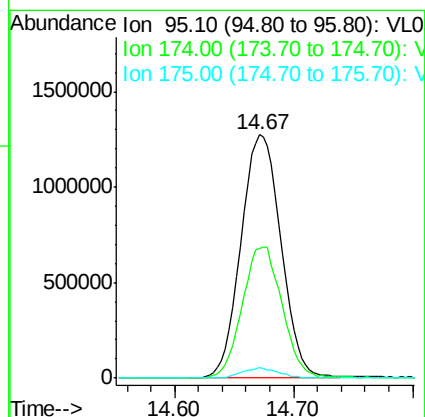
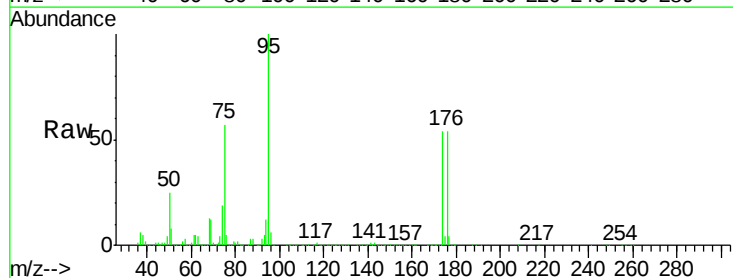
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

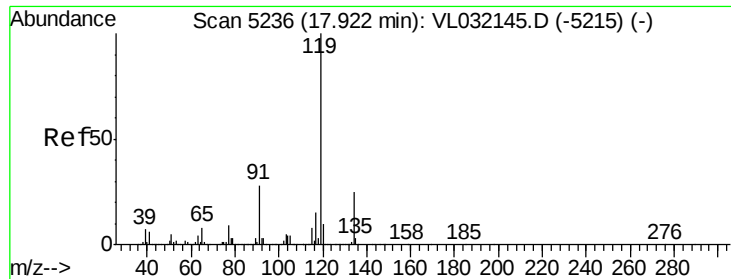
Tgt Ion: 105 Resp: 1016421
 Ion Ratio Lower Upper
 105 100
 134 16.8 14.7 22.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.911 ppbv
 RT: 14.67 min Scan# 4225
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion: 95 Resp: 2969703
 Ion Ratio Lower Upper
 95 100
 174 54.3 52.1 78.1
 175 3.9 4.0 6.0#

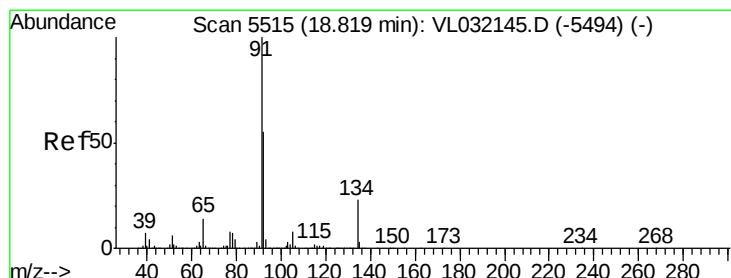
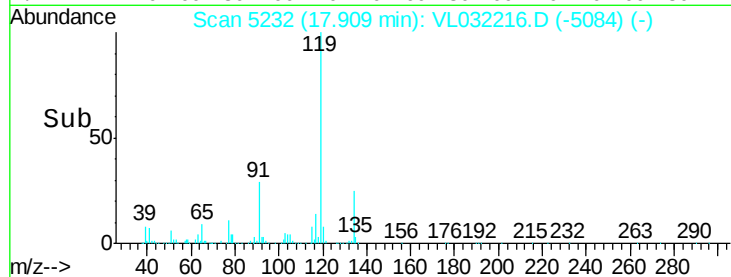
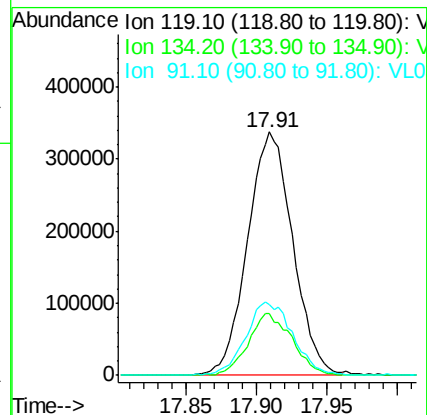
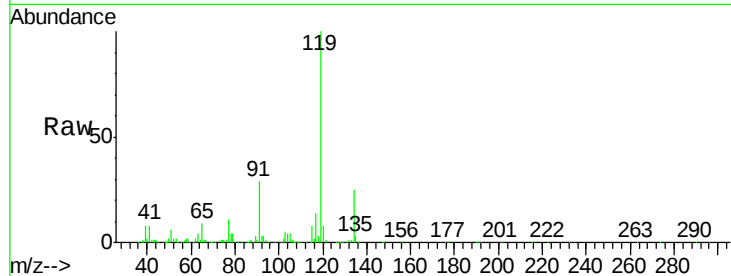




#69
 p-Isopropyltoluene
 Concen: 0.942 ppbv
 RT: 17.91 min Scan# 5232
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

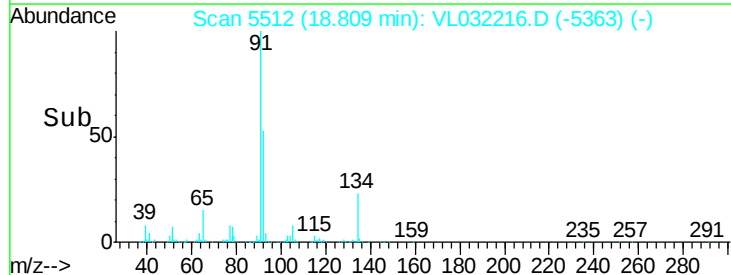
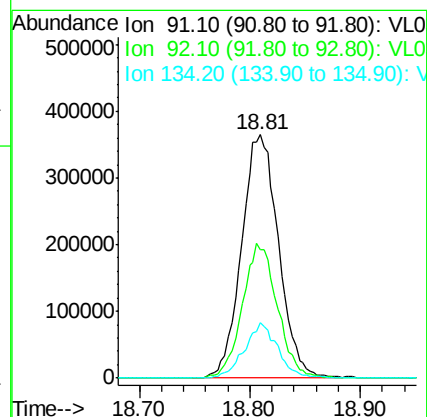
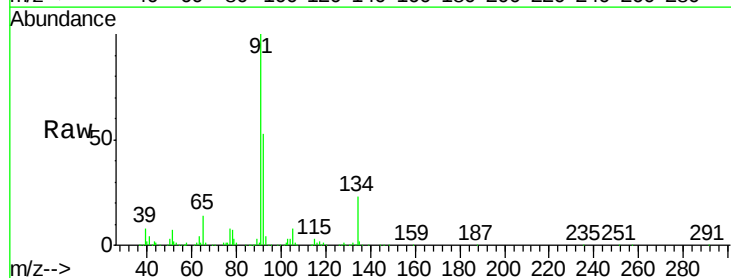
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

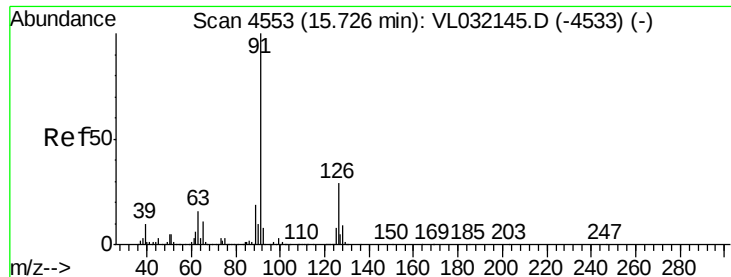
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.7	31.1
91	31.8	21.8	32.8



#70
 n-Butylbenzene
 Concen: 1.011 ppbv
 RT: 18.81 min Scan# 5512
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	43.7	65.5
134	20.4	18.9	28.3





#71

2-Chlorotoluene

Concen: 1.015 ppbv

RT: 15.71 min Scan# 4549

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

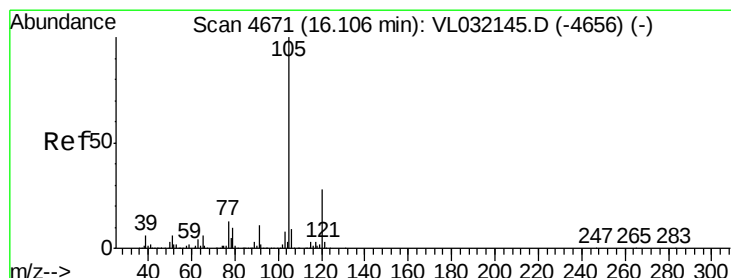
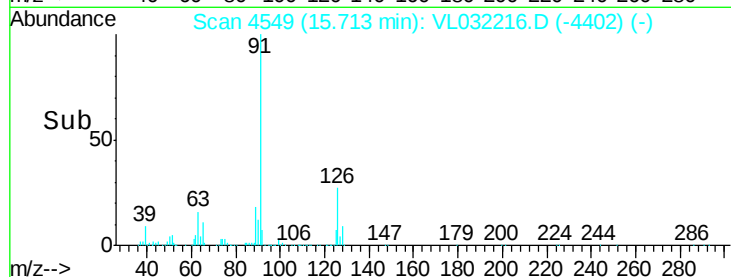
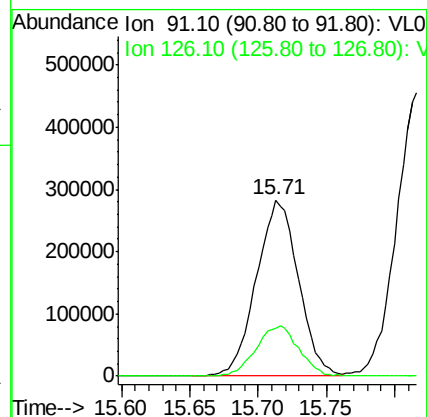
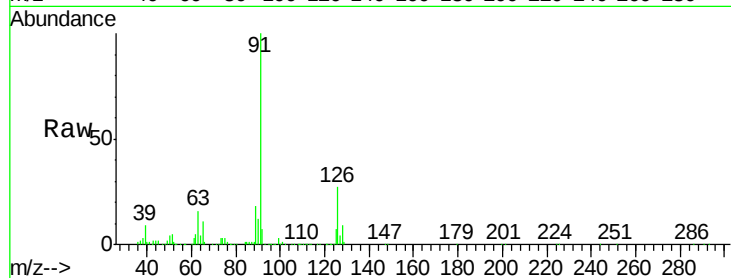
LOQ-AIR-02-QT3-2018

Tgt Ion: 91 Resp: 607066

Ion Ratio Lower Upper

91 100

126 29.2 12.8 51.0



#72

4-Ethyltoluene

Concen: 0.940 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion: 105 Resp: 613102

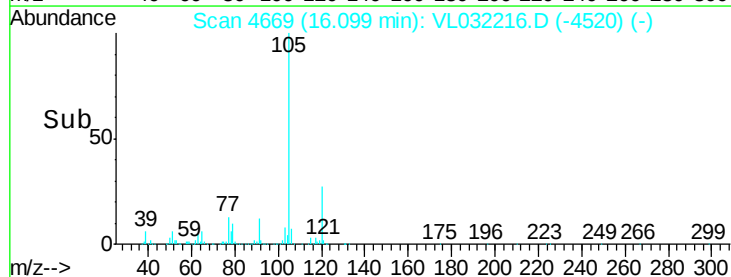
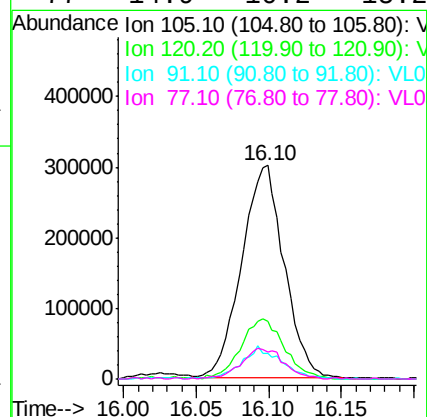
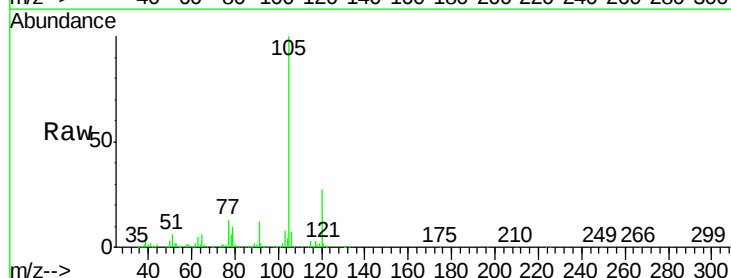
Ion Ratio Lower Upper

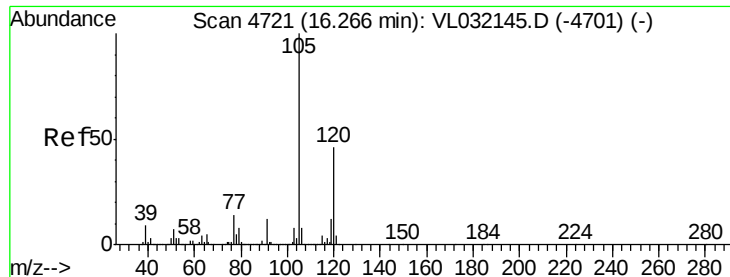
105 100

120 29.1 24.3 36.5

91 14.2 9.4 14.0#

77 14.9 10.2 15.2

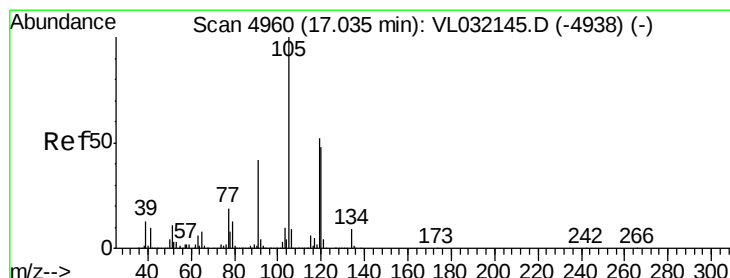
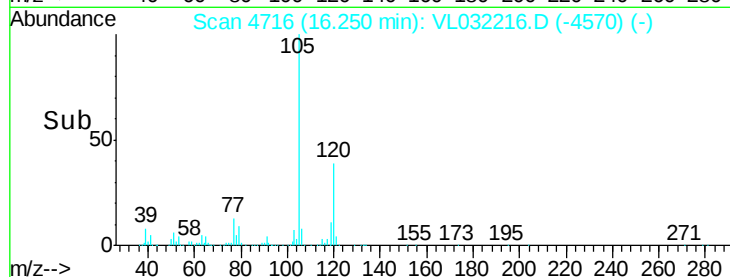
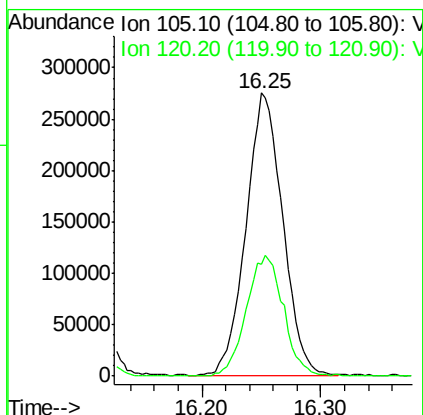
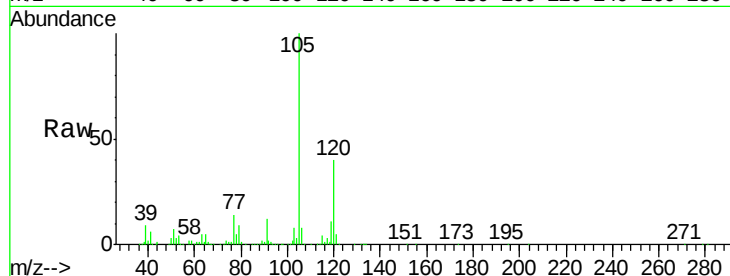




#73
 1,3,5-Trimethylbenzene
 Concen: 0.963 ppbv
 RT: 16.25 min Scan# 4716
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

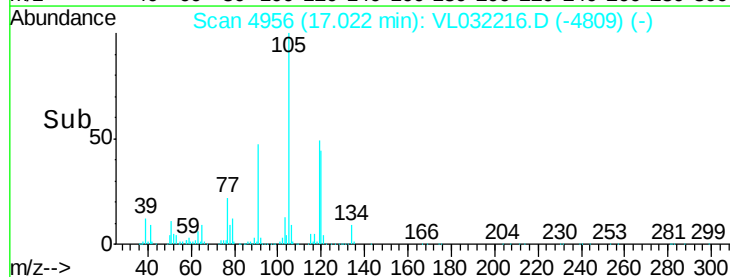
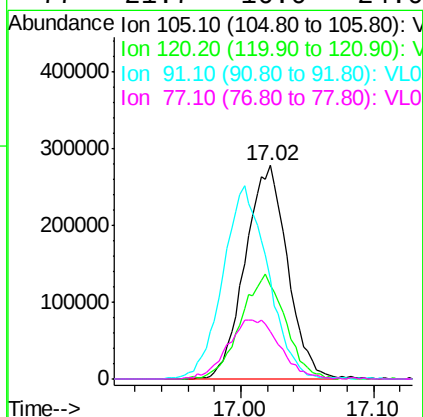
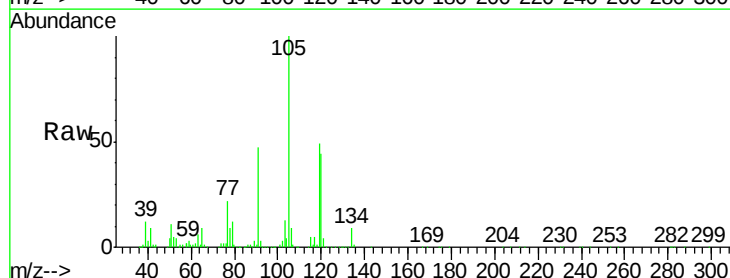
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

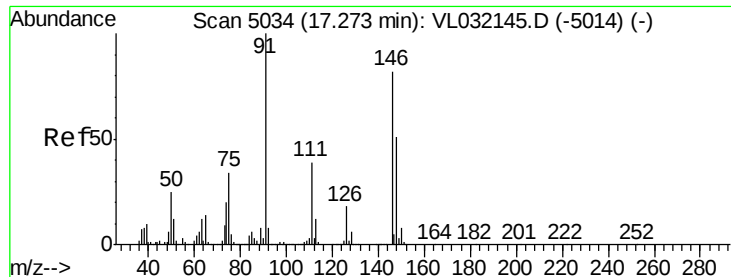
Tgt Ion:105 Resp: 591434
 Ion Ratio Lower Upper
 105 100
 120 39.7 38.6 57.8



#74
 1,2,4-Trimethylbenzene
 Concen: 0.995 ppbv
 RT: 17.02 min Scan# 4956
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion:105 Resp: 617014
 Ion Ratio Lower Upper
 105 100
 120 43.2 38.8 58.2
 91 46.4 33.6 50.4
 77 21.7 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 1.053 ppbv

RT: 17.26 min Scan# 5030

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

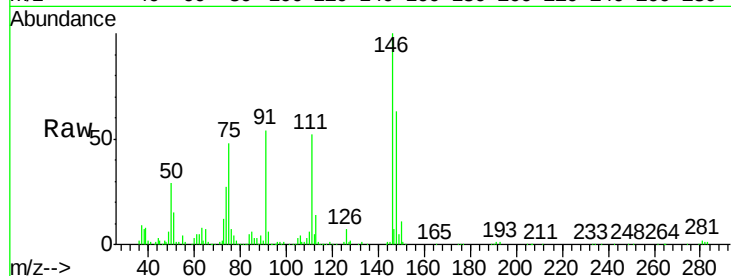
Tgt Ion:146 Resp: 371339

Ion Ratio Lower Upper

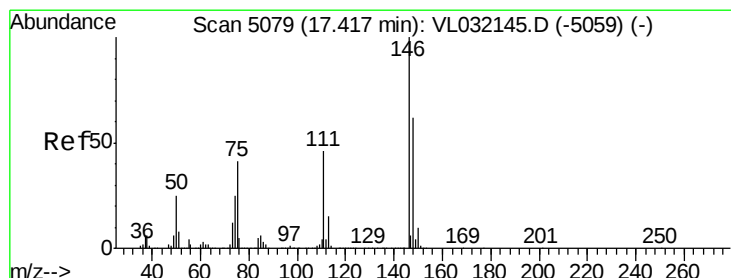
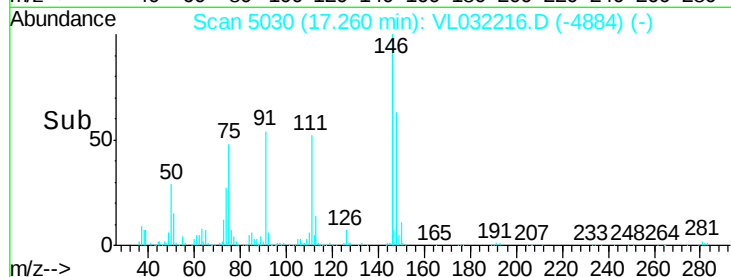
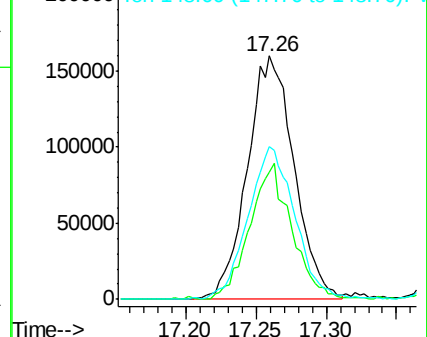
146 100

111 50.6 22.9 68.8

148 63.0 31.7 95.1



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: 0.979 ppbv

RT: 17.40 min Scan# 5075

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

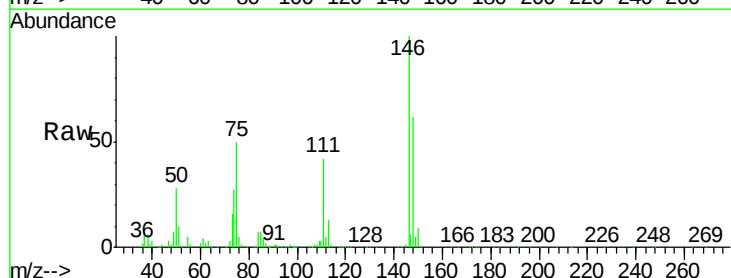
Tgt Ion:146 Resp: 350254

Ion Ratio Lower Upper

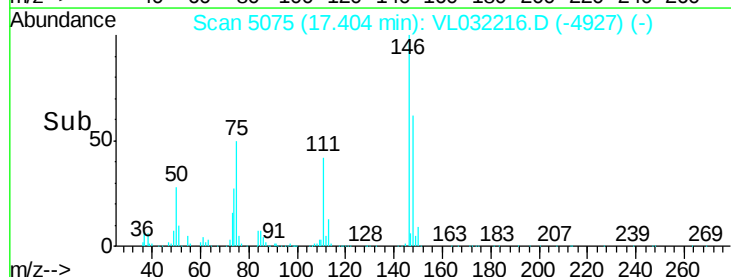
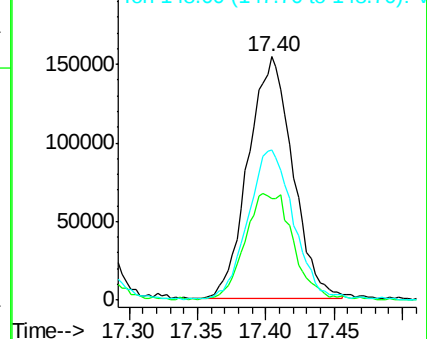
146 100

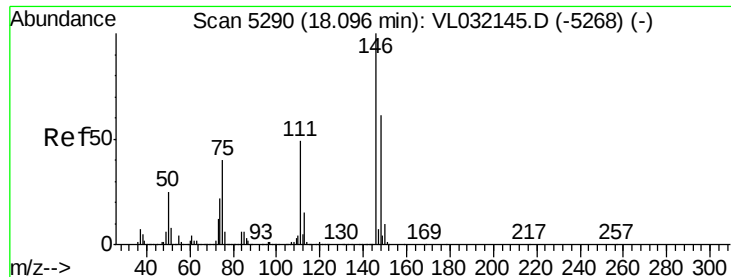
111 47.9 21.9 65.8

148 64.2 32.1 96.5



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

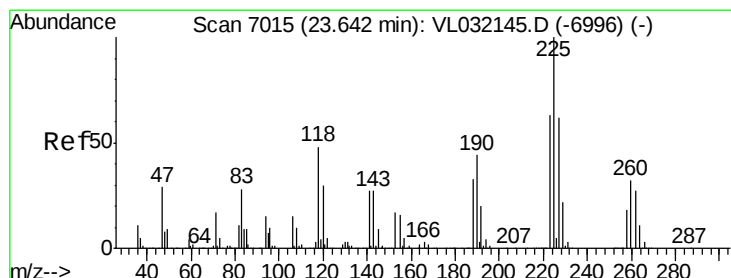
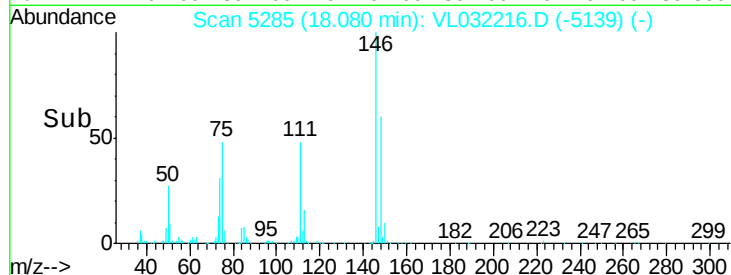
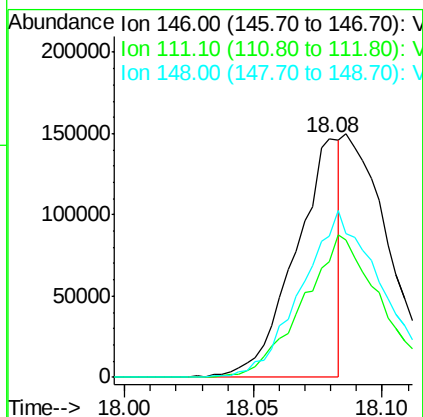
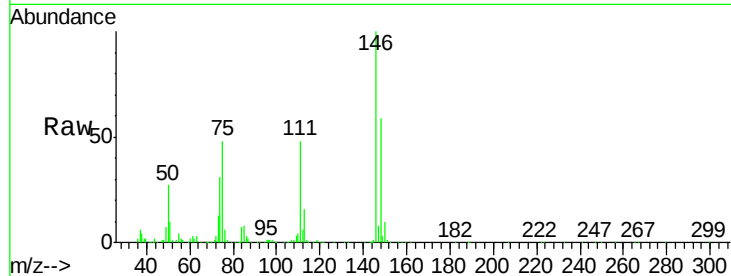




#77
 1,2-Dichlorobenzene
 Concen: 0.500 ppbv
 RT: 18.08 min Scan# 5285
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

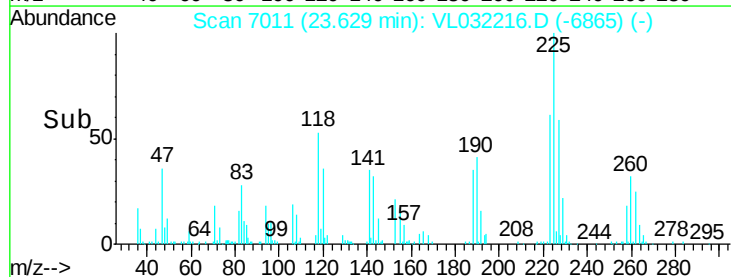
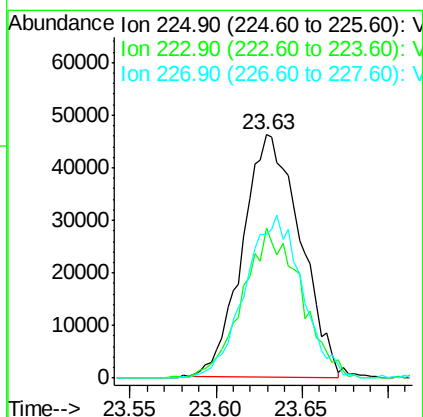
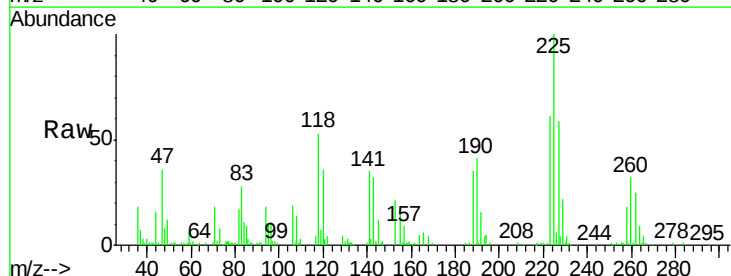
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

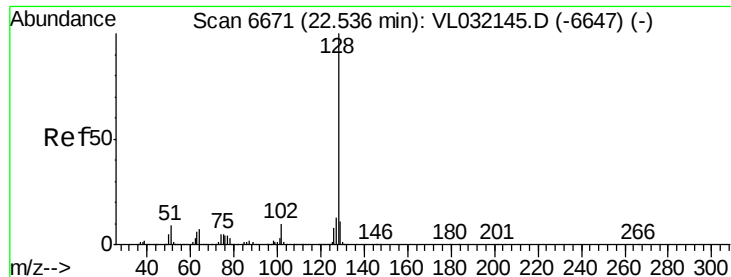
Tgt Ion:146 Resp: 176203
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.4 70.3#
 148 0.0 32.0 96.0#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.881 ppbv
 RT: 23.63 min Scan# 7011
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion:225 Resp: 108124
 Ion Ratio Lower Upper
 225 100
 223 62.0 51.0 76.4
 227 65.9 51.4 77.0

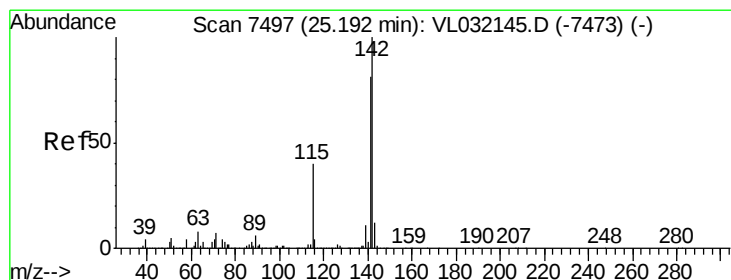
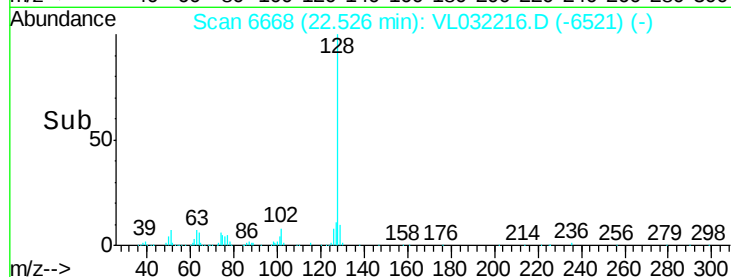
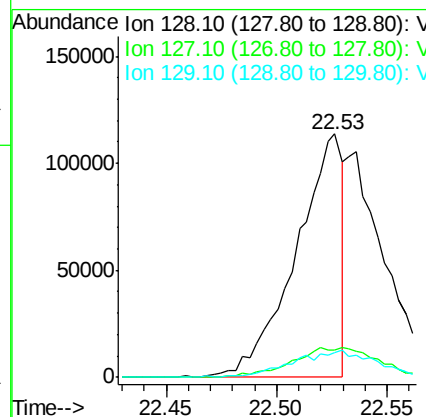
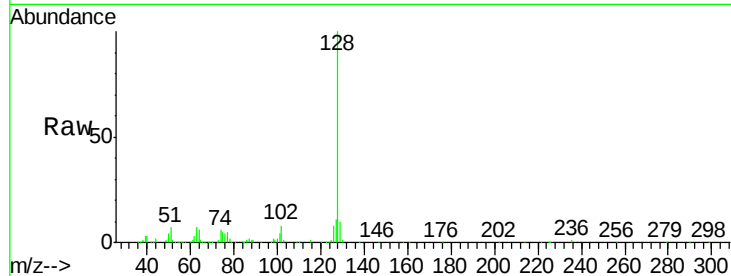




#79
Naphthalene
Concen: 0.296 ppbv
RT: 22.53 min Scan# 6668
Delta R.T. -0.03 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

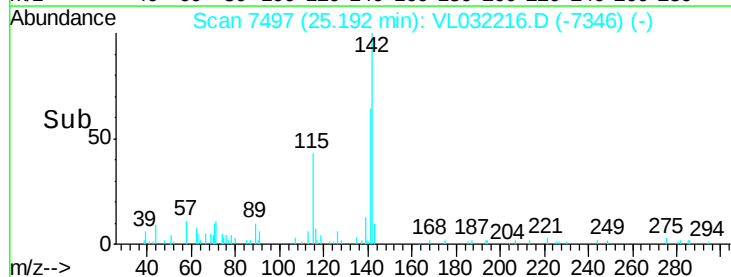
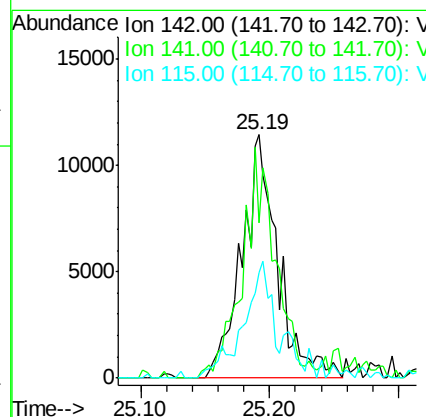
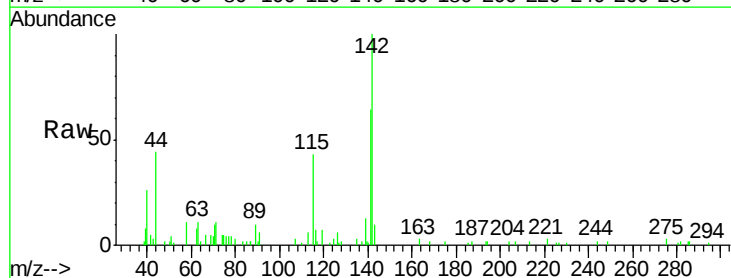
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

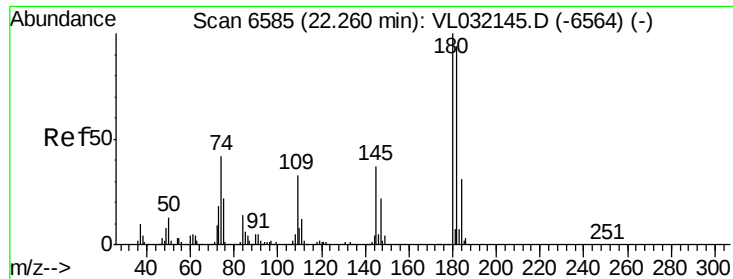
Tgt Ion:128 Resp: 166928
Ion Ratio Lower Upper
128 100
127 11.2 10.5 15.7
129 9.9 9.0 13.6



#80
Naphthalene, 2-methyl-
Concen: 0.108 ppbv
RT: 25.19 min Scan# 7497
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion:142 Resp: 22022
Ion Ratio Lower Upper
142 100
141 89.6 65.8 98.6
115 46.7 29.4 44.0#

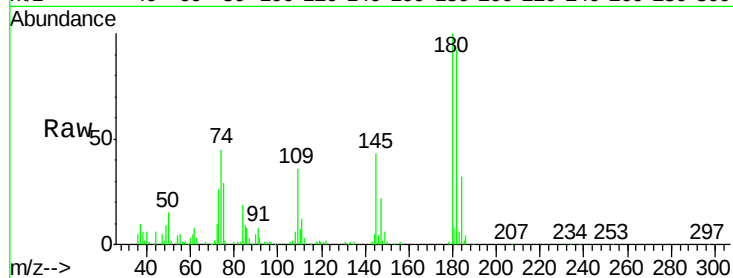




#81
 1,2,4-Trichlorobenzene
 Concen: 0.401 ppbv
 RT: 22.25 min Scan# 6582
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tgt Ion:180 Resp: 101952
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.2 114.4#
 184 51.7 24.4 36.6#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

