

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031884.D
 Acq On : 19 Apr 2018 19:08
 Operator : SY/AP
 Sample : J2133-14 1 PPBV
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2018

Manual Integrations
 APPROVED

sam
 4/23/2018 12:49:58 PM

Quant Time: Apr 20 08:35:11 2018

Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1173565	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2733814	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2679570	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	2211823	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.16	85	284042	1.17	ppbv	100
3) Chlorodifluoromethane	3.10	51	154127	1.13	ppbv	100
4) Chloromethane	3.26	50	81036	1.16	ppbv	93
5) Vinyl Chloride	3.38	62	84055	1.07	ppbv	90
6) Bromomethane	3.61	94	61228	1.19	ppbv	96
7) Chloroethane	3.70	64	35333	1.13	ppbv	94
8) Dichlorotetrafluoroethane	3.31	85	230492	1.16	ppbv	99
9) Propene	3.12	41	42396	0.90	ppbv	93
10) Heptane	8.39	43	164135	1.07	ppbv	100
11) Trichlorofluoromethane	4.11	101	276368	1.16	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	178509	1.16	ppbv	100
13) Ethanol	3.76	45	18232	1.14	ppbv	95
14) Bromoethene	3.89	108	65608	1.13	ppbv	99
15) Acetone	4.01	43	217822	1.21	ppbv	97
16) 1,3-Butadiene	3.46	39	74020	1.11	ppbv	96
17) tert-Butyl alcohol	4.49	59	84276	1.13	ppbv	97
18) 1,1-Dichloroethene	4.47	96	71172	1.07	ppbv	97
19) Isopropyl Alcohol	4.14	45	107438m	1.06	ppbv	
20) Methylene Chloride	4.52	84	70328	1.07	ppbv	96
21) Allyl Chloride	4.59	41	109265	1.06	ppbv	98
22) trans-1,2-Dichloroethene	5.08	96	78457	1.14	ppbv	97
23) Vinyl Acetate	5.27	43	180612	0.99	ppbv #	95
24) 1,1-Dichloroethane	5.21	63	194024	1.06	ppbv	99
25) Ethyl Acetate	5.90	43	306189	1.09	ppbv	99
26) Hexane	5.91	57	136238	1.04	ppbv	88
27) Carbon Disulfide	4.74	76	178669	1.05	ppbv	95
28) Methyl tert-Butyl Ether	5.25	73	156540m	0.97	ppbv	
29) Chloroform	5.97	83	250495	1.13	ppbv	100
30) Cyclohexane	7.38	84	94654	1.01	ppbv #	63
31) cis-1,2-Dichloroethene	5.76	61	113533	0.95	ppbv	97
32) 1,1,1-Trichloroethane	6.75	97	240961	1.11	ppbv	99
34) 2-Butanone	5.46	43	195302	1.03	ppbv	98
35) Carbon Tetrachloride	7.27	117	248642	1.05	ppbv	95
36) Benzene	7.14	78	245659	1.00	ppbv	96
37) 1,2-Dichloroethane	6.54	62	199183	1.09	ppbv	99
38) Trichloroethene	8.10	130	99767	1.00	ppbv	95
39) 1,2-Dichloropropane	7.87	63	94704	1.04	ppbv	93
40) 1,4-Dioxane	8.13	88	40390m	1.09	ppbv	
41) Tetrahydrofuran	6.29	42	74488	0.85	ppbv	96
42) Bromodichloromethane	8.05	83	239186	1.09	ppbv	96
43) Methyl Methacrylate	8.28	69	75722	0.88	ppbv	87

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Manual Integrations
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 4/23/2018 12:49:58 PM

Quant Time: Apr 20 08:35:11 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	462671	1.09	ppbv	96
45) t-1,3-Dichloropropene	9.56	75	95696	0.85	ppbv	98
46) cis-1,3-Dichloropropene	8.97	75	132671	0.92	ppbv #	86
47) 1,1,2-Trichloroethane	9.76	97	117413	1.08	ppbv	92
48) Dibromochloromethane	10.59	129	187483	1.07	ppbv	100
49) Bromoform	13.35	173	143591	1.06	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	230004m	1.06	ppbv	
51) 2-Hexanone	10.43	43	196600m	1.04	ppbv	
52) Tetrachloroethene	11.52	164	92823	0.97	ppbv	93
53) Toluene	10.09	91	264689	0.97	ppbv	98
54) 1,2-Dibromoethane	10.91	107	158996	1.01	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	145204	1.15	ppbv #	1
57) Chlorobenzene	12.45	112	262393	1.15	ppbv #	97
58) Ethyl Benzene	13.01	91	387945	1.04	ppbv	99
59) m/p-Xylene	13.30	91	726313m	2.25	ppbv	
60) o-Xylene	13.99	91	352348	1.09	ppbv	99
61) Styrene	13.83	104	47673m	0.78	ppbv	
62) Isopropylbenzene	14.97	105	459718	1.11	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	278768	1.12	ppbv	99
64) n-propylbenzene	15.87	120	112275	1.11	ppbv	95
65) tert-Butylbenzene	17.05	119	402572	1.13	ppbv	96
66) Benzyl Chloride	17.31	91	31775m	0.99	ppbv	
67) sec-Butylbenzene	17.61	105	602920	1.17	ppbv	98
69) p-Isopropyltoluene	17.96	119	453216	1.14	ppbv	99
70) n-Butylbenzene	18.86	91	473175	1.14	ppbv	99
71) 2-Chlorotoluene	15.77	91	316873	1.06	ppbv	99
72) 4-Ethyltoluene	16.15	105	337894	1.02	ppbv	97
73) 1,3,5-Trimethylbenzene	16.30	105	318345	1.05	ppbv	96
74) 1,2,4-Trimethylbenzene	17.07	105	384699	1.14	ppbv #	90
75) 1,3-Dichlorobenzene	17.31	146	253472m	1.23	ppbv	
76) 1,4-Dichlorobenzene	17.45	146	236441m	1.18	ppbv	
77) 1,2-Dichlorobenzene	18.14	146	245849	1.21	ppbv	98
78) Hexachloro-1,3-Butadiene	23.68	225	100468m	1.28	ppbv	
79) Naphthalene	22.59	128	171610	0.90	ppbv #	96
80) Naphthalene, 2-methyl-	25.24	142	22818	0.62	ppbv	94
81) 1,2,4-Trichlorobenzene	22.31	180	107033m	1.02	ppbv	

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

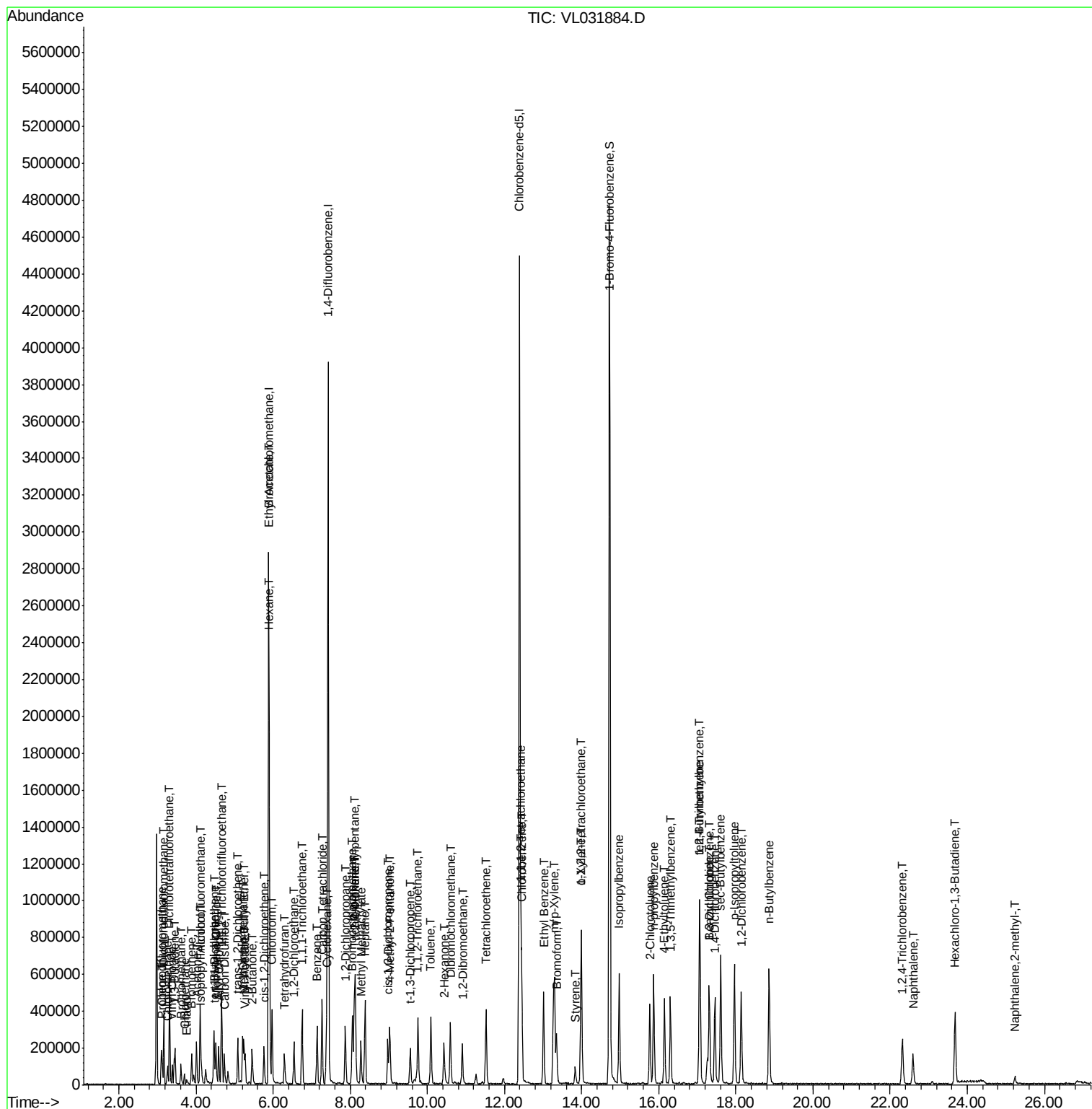
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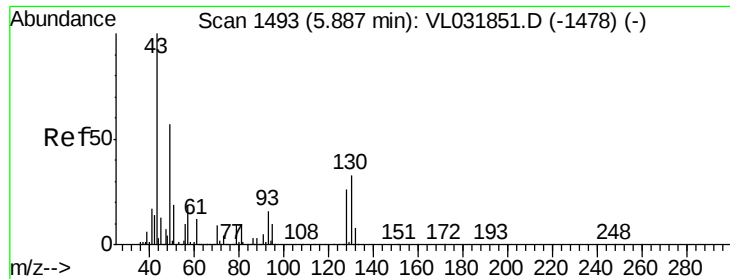
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Manual Integrations APPROVED

4/23/2018 12:49:58 PM

Quant Time: Apr 20 08:35:11 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Apr
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 49 Resp: 1173565

Ion Ratio Lower Upper

49 100

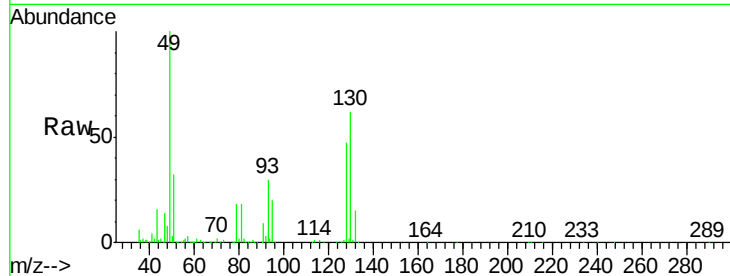
128 48.8 23.9 71.7

130 62.6 30.9 92.7

Manual Integrations
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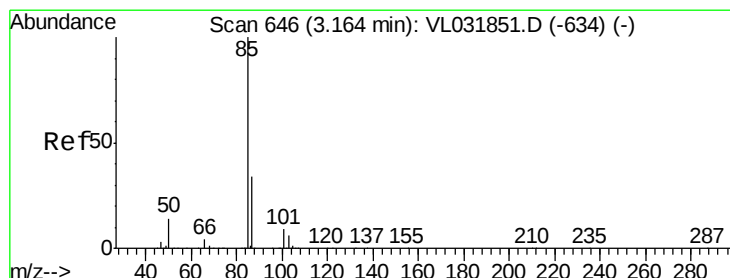
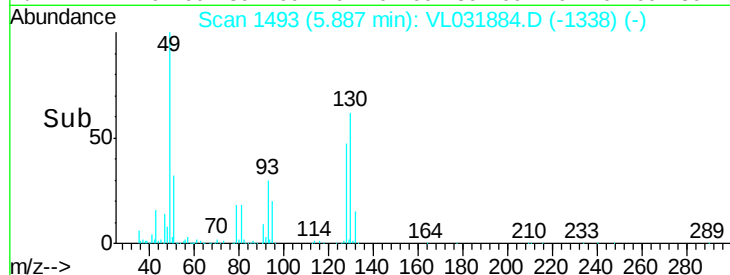
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.89

Time-->



#2

Dichlorodifluoromethane

Concen: 1.17 ppbv

RT: 3.16 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL031884.D

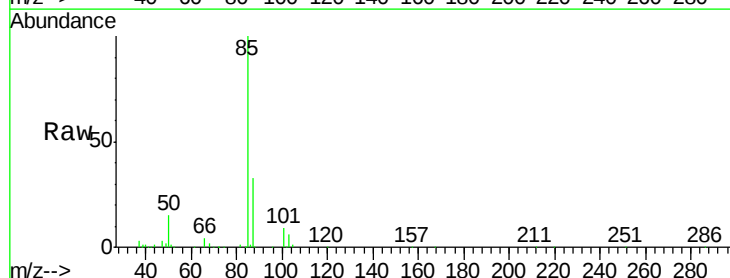
Acq: 19 Apr 2018 19:08

Tgt Ion: 85 Resp: 284042

Ion Ratio Lower Upper

85 100

87 32.5 25.9 38.9

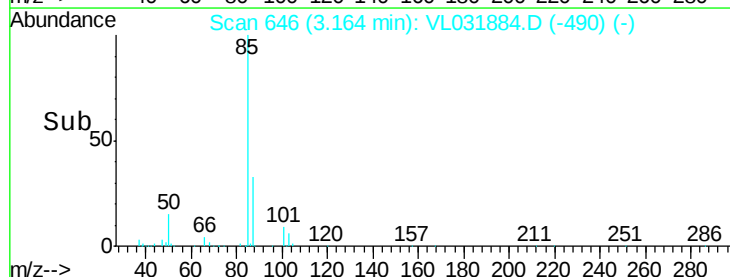


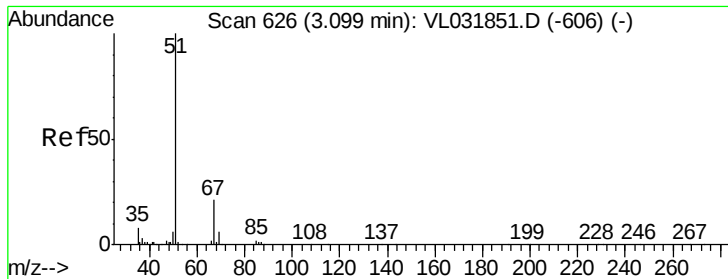
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.16

Time-->





#3

Chlorodifluoromethane

Concen: 1.13 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

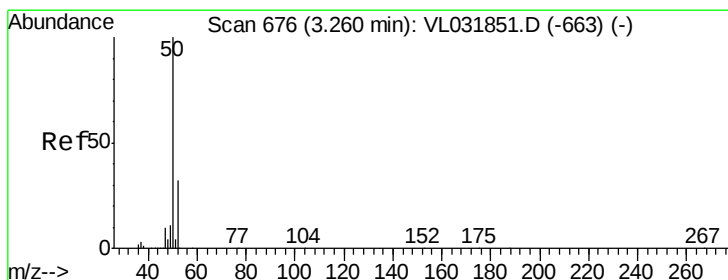
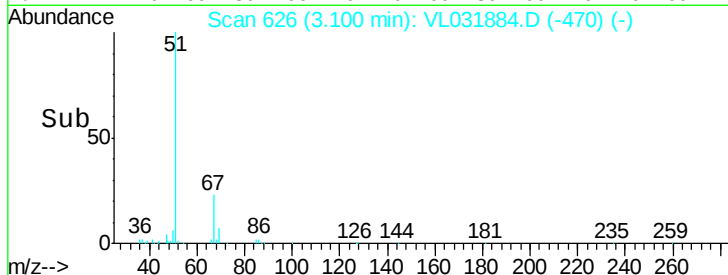
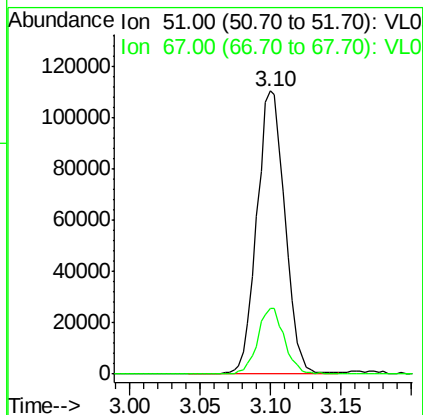
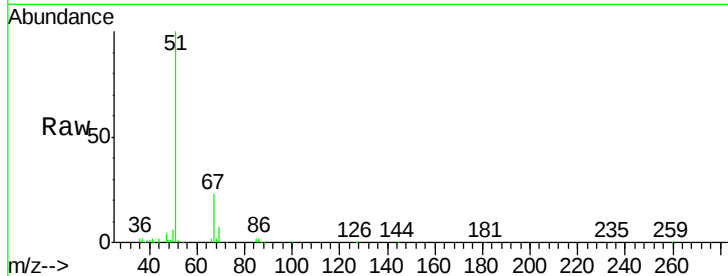
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion	Ion	Ratio	Lower	Upper
51	51	100		
67	67	22.1	17.5	26.3

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#4

Chloromethane

Concen: 1.16 ppbv

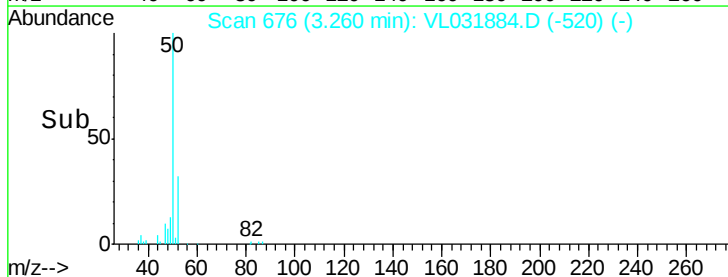
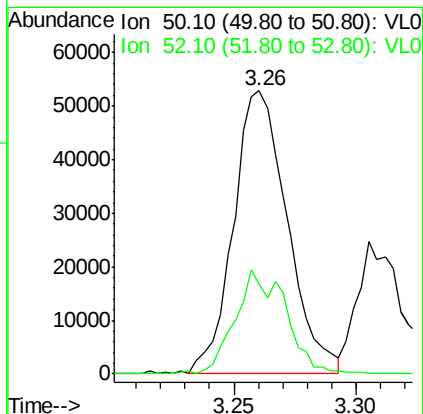
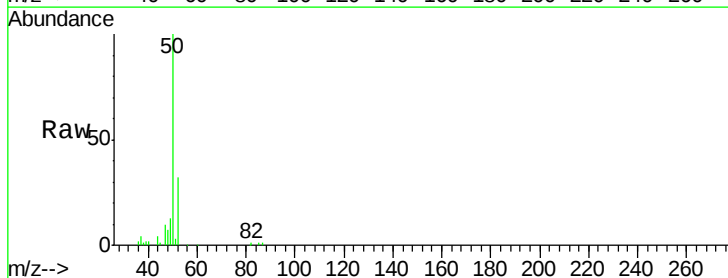
RT: 3.26 min Scan# 676

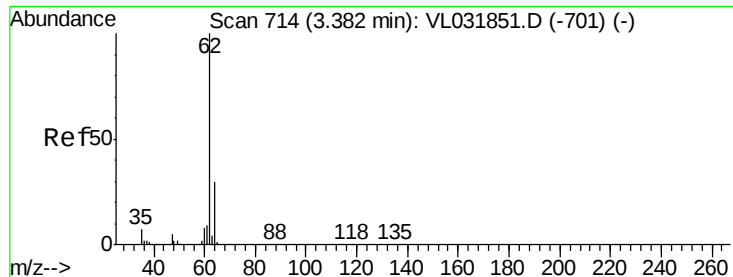
Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion	Ion	Ratio	Lower	Upper
50	50	100		
52	52	30.8	28.1	42.1





#5

Vinyl Chloride

Concen: 1.07 ppbv

RT: 3.38 min Scan# 714

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 62 Resp: 84055

Ion Ratio Lower Upper

62 100

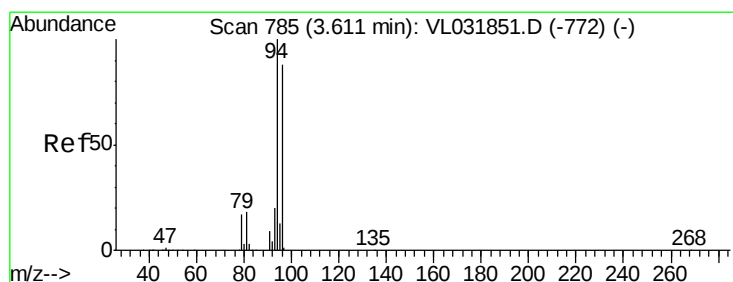
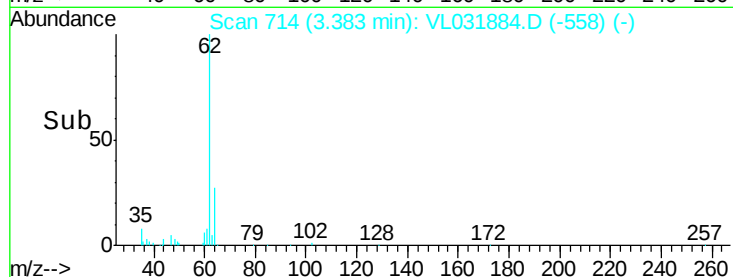
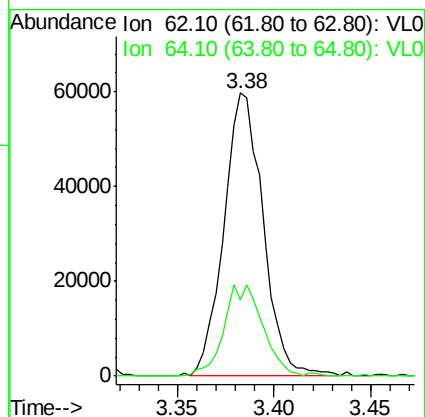
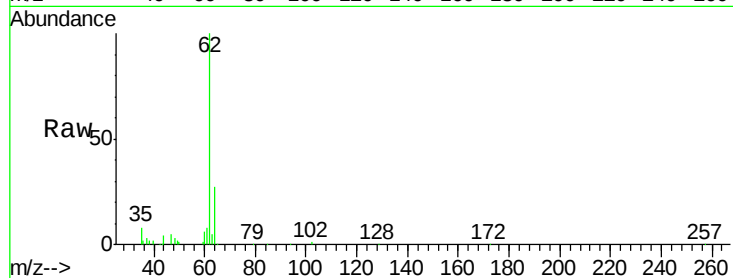
64 26.9 25.9 38.9

Manual Integrations

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#6

Bromomethane

Concen: 1.19 ppbv

RT: 3.61 min Scan# 785

Delta R.T. 0.00 min

Lab File: VL031884.D

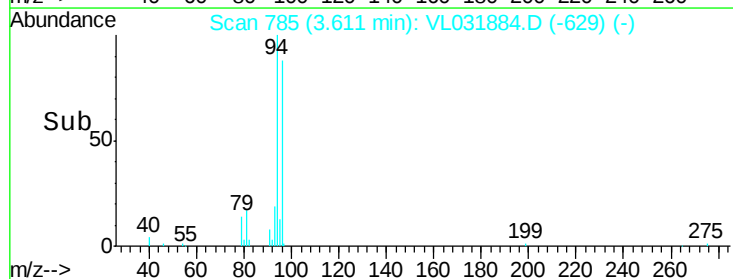
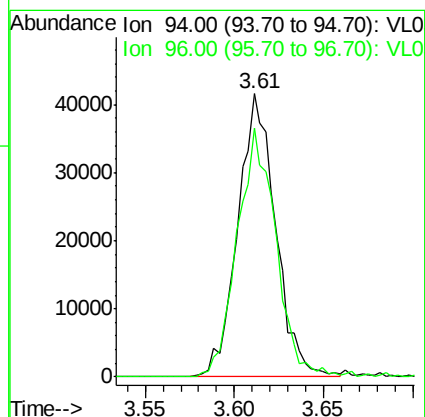
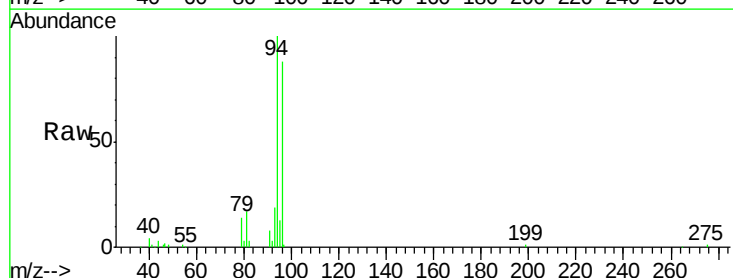
Acq: 19 Apr 2018 19:08

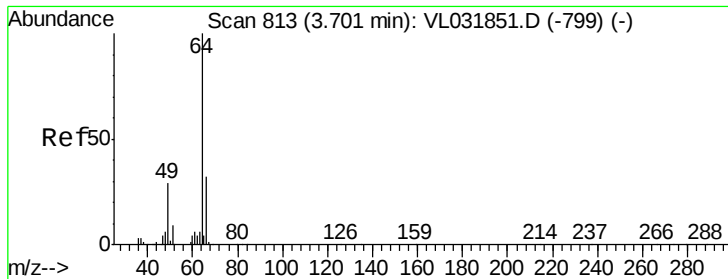
Tgt Ion: 94 Resp: 61228

Ion Ratio Lower Upper

94 100

96 88.1 73.8 110.6





#7

Chloroethane

Concen: 1.13 ppbv

RT: 3.70 min Scan# 813

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 64 Resp: 35333

Ion Ratio Lower Upper

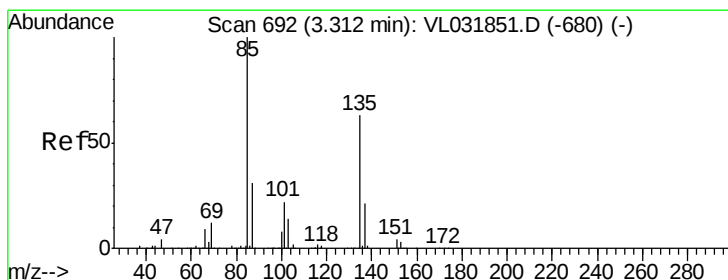
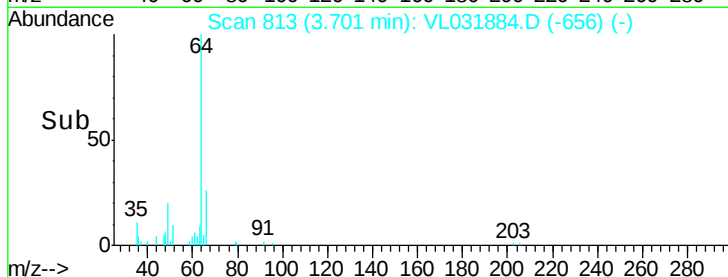
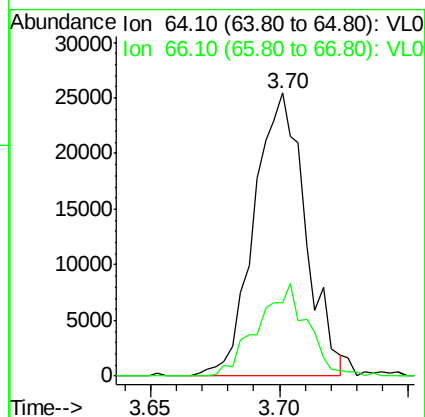
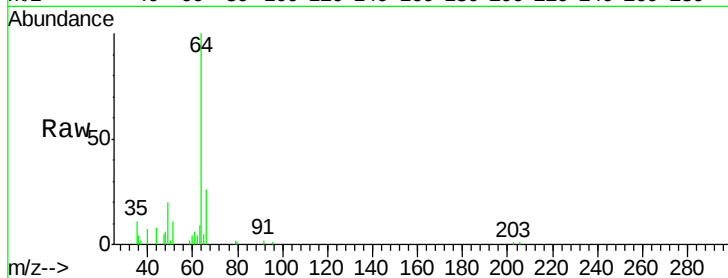
64 100

66 26.0 23.4 35.0

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#8

Dichlorotetrafluoroethane

Concen: 1.16 ppbv

RT: 3.31 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL031884.D

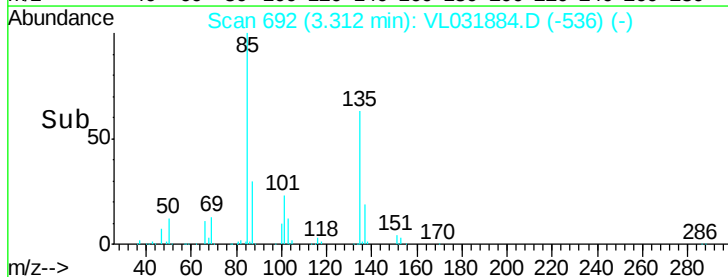
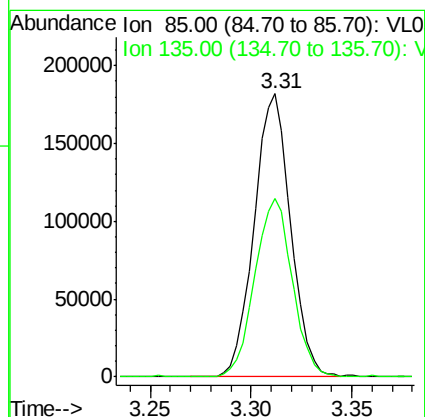
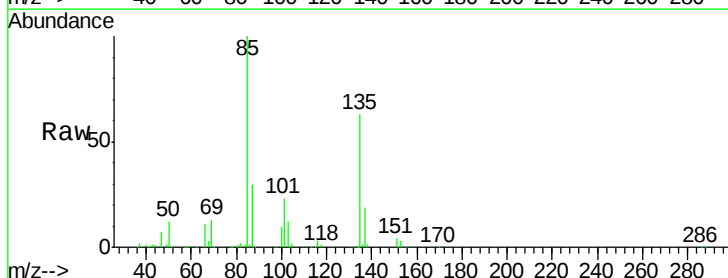
Acq: 19 Apr 2018 19:08

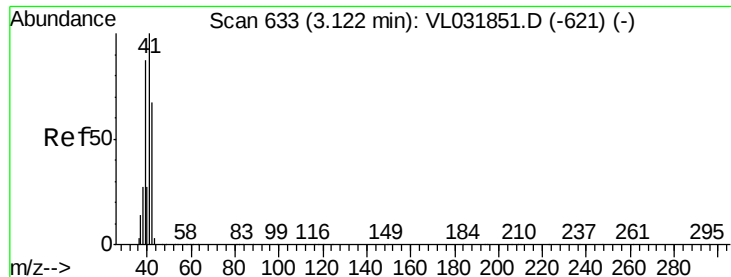
Tgt Ion: 85 Resp: 230492

Ion Ratio Lower Upper

85 100

135 64.9 52.7 79.1





#9

Propene

Concen: 0.90 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 41 Resp: 42396

Ion Ratio Lower Upper

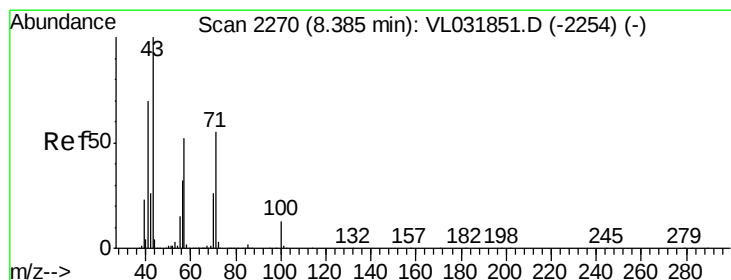
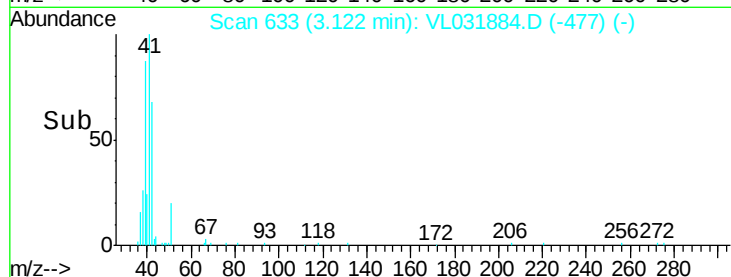
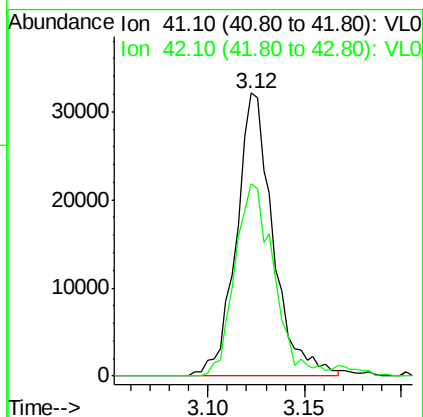
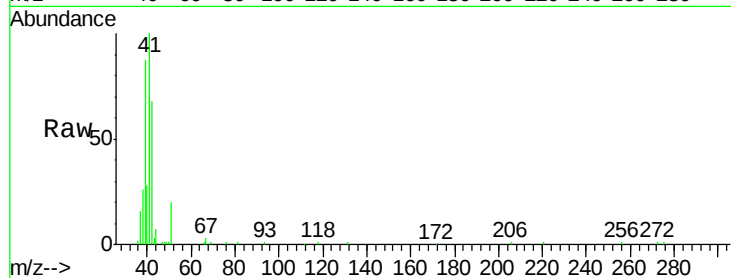
41 100

42 74.5 55.0 82.4

Manual Integrations
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#10

Heptane

Concen: 1.07 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VL031884.D

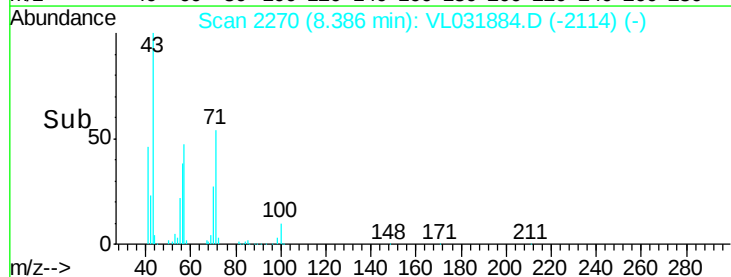
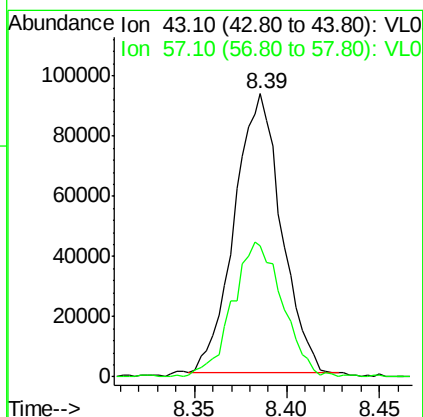
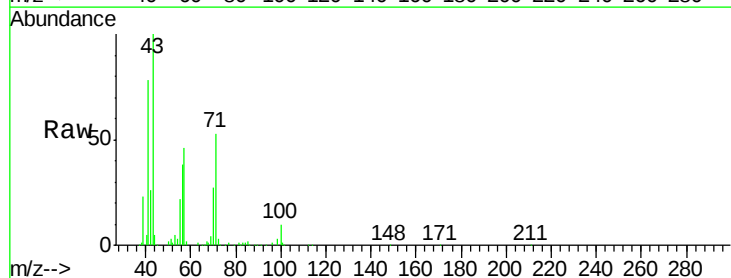
Acq: 19 Apr 2018 19:08

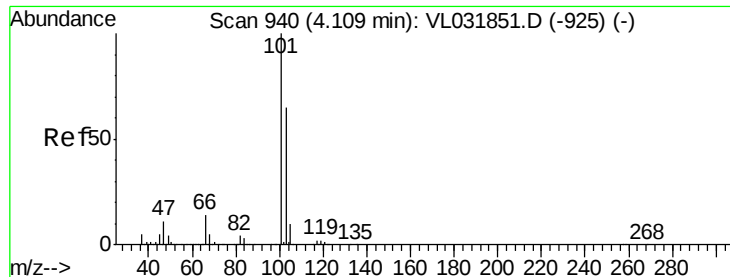
Tgt Ion: 43 Resp: 164135

Ion Ratio Lower Upper

43 100

57 51.6 41.5 62.3





#11

Trichlorofluoromethane

Concen: 1.16 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:101 Resp: 276368

Ion Ratio Lower Upper

101 100

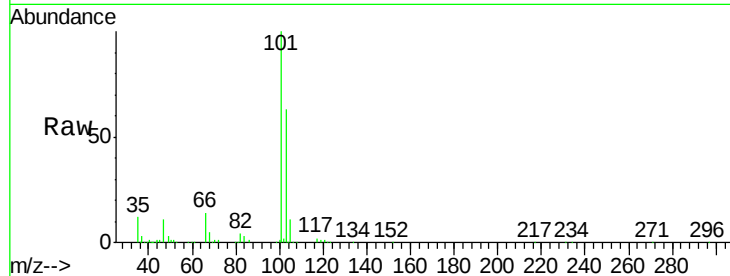
103 63.1 51.8 77.8

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.11

200000

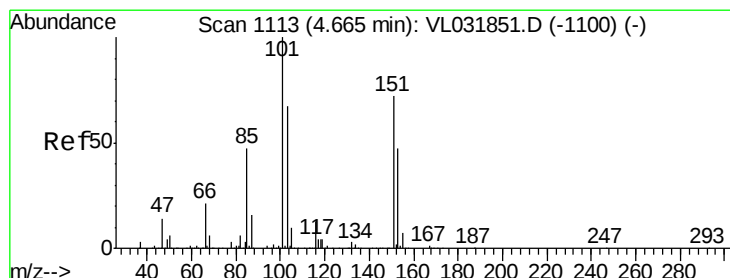
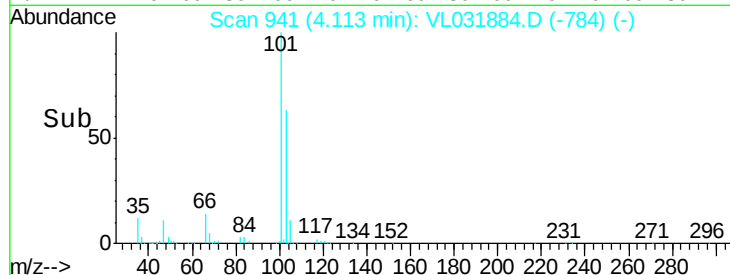
150000

100000

50000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.16 ppbv

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VL031884.D

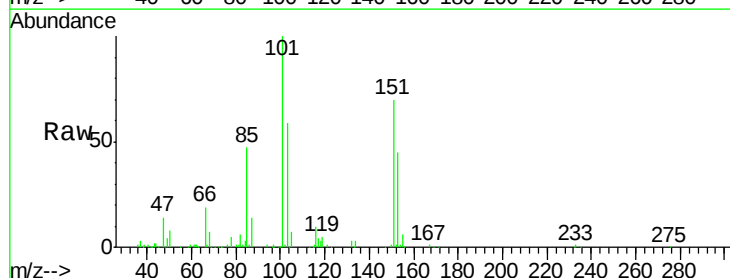
Acq: 19 Apr 2018 19:08

Tgt Ion:101 Resp: 178509

Ion Ratio Lower Upper

101 100

151 70.9 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.67

120000

100000

80000

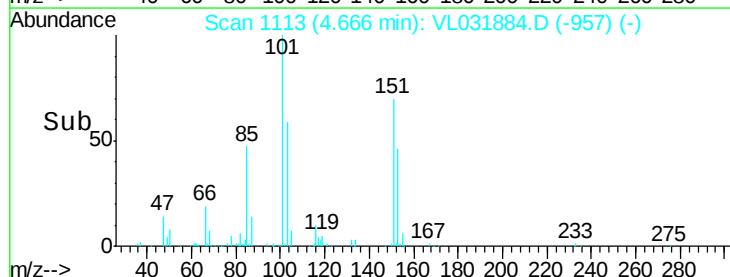
60000

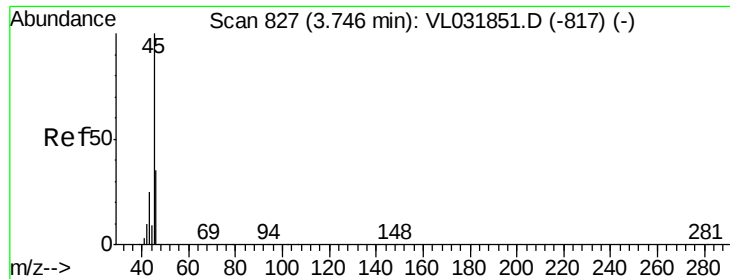
40000

20000

0

Time-->





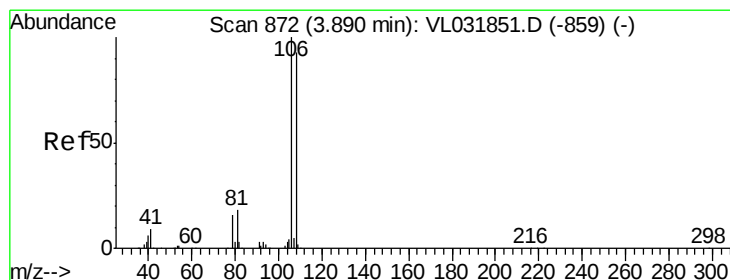
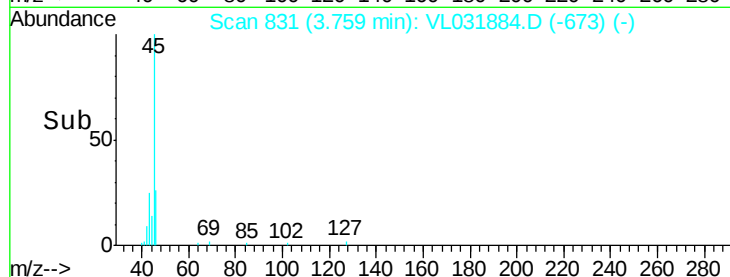
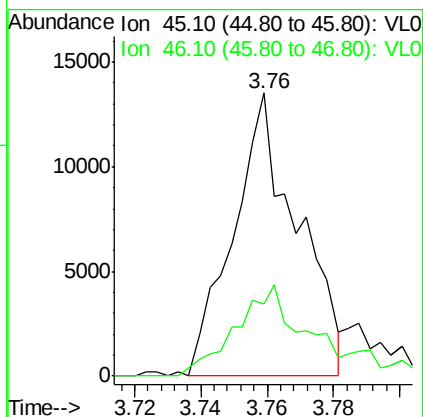
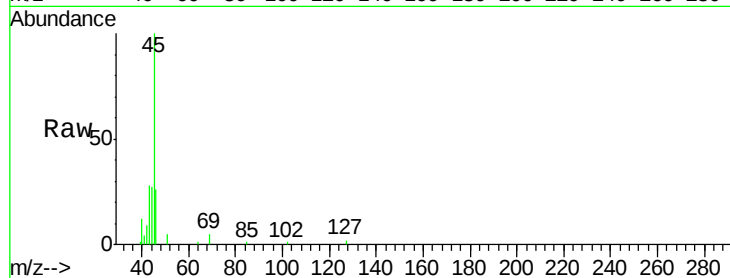
#13
Ethanol
Concen: 1.14 ppbv
RT: 3.76 min Scan# 831
Delta R.T. 0.01 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion: 45 Resp: 18232
Ion Ratio Lower Upper
45 100
46 39.6 14.6 58.6

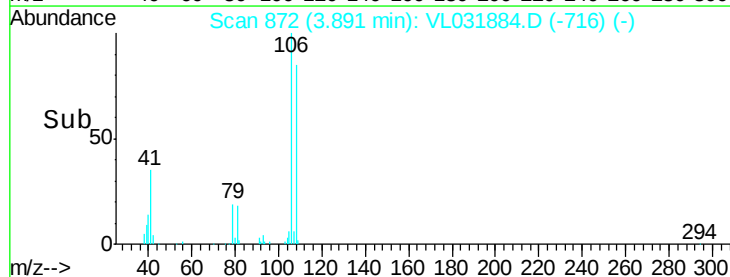
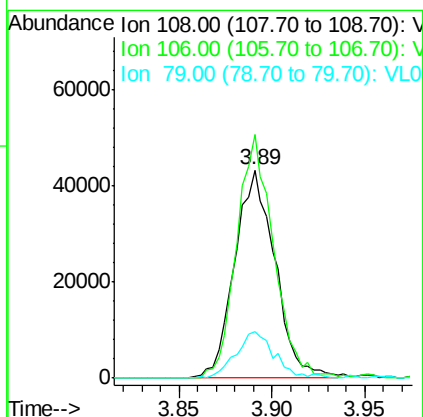
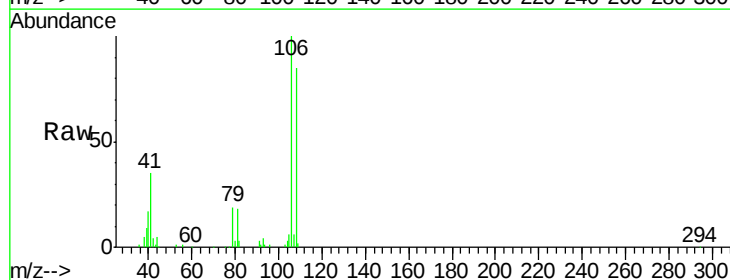
Manual Integrations
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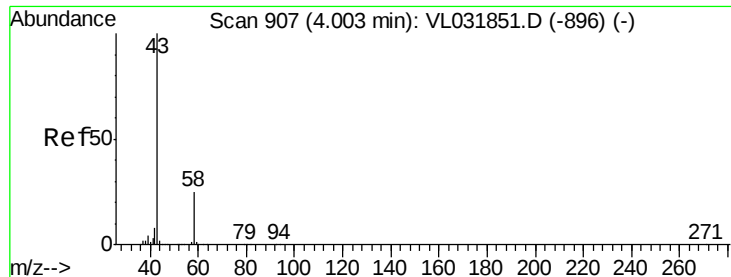
sam
4/23/2018 12:49:58 PM



#14
Bromoethene
Concen: 1.13 ppbv
RT: 3.89 min Scan# 872
Delta R.T. 0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion: 108 Resp: 65608
Ion Ratio Lower Upper
108 100
106 108.0 86.6 130.0
79 21.5 15.5 23.3





#15

Acetone

Concen: 1.21 ppbv

RT: 4.01 min Scan# 910

Delta R.T. 0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 43 Resp: 217822

Ion Ratio Lower Upper

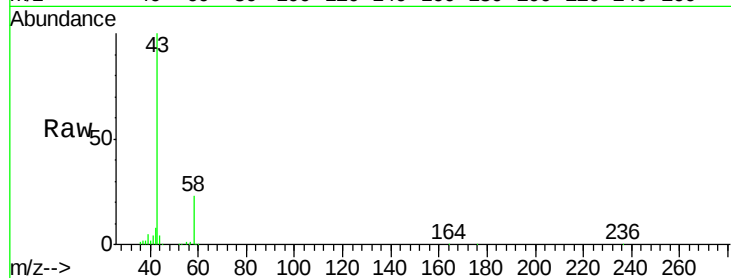
43 100

58 27.7 20.9 31.3

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

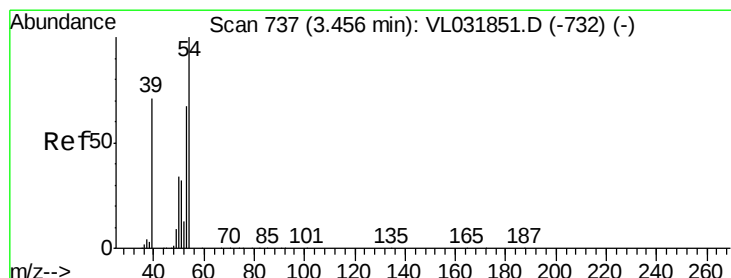
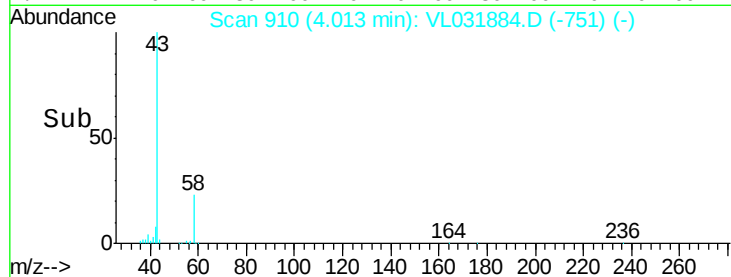
100000

50000

0

3.95 4.00 4.05

Time-->



#16

1,3-Butadiene

Concen: 1.11 ppbv

RT: 3.46 min Scan# 737

Delta R.T. 0.00 min

Lab File: VL031884.D

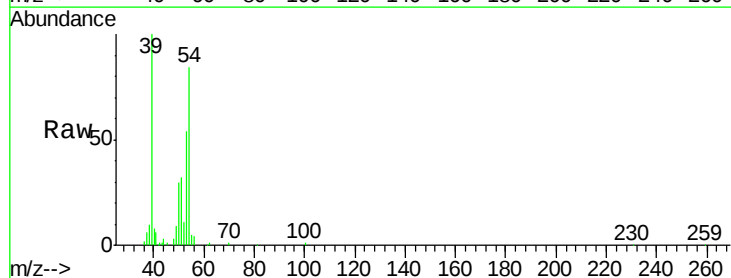
Acq: 19 Apr 2018 19:08

Tgt Ion: 39 Resp: 74020

Ion Ratio Lower Upper

39 100

54 82.6 63.3 94.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

60000

50000

40000

30000

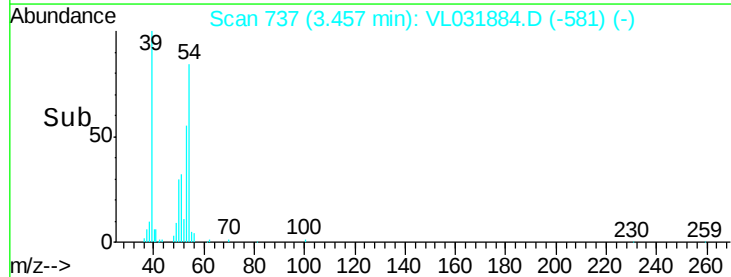
20000

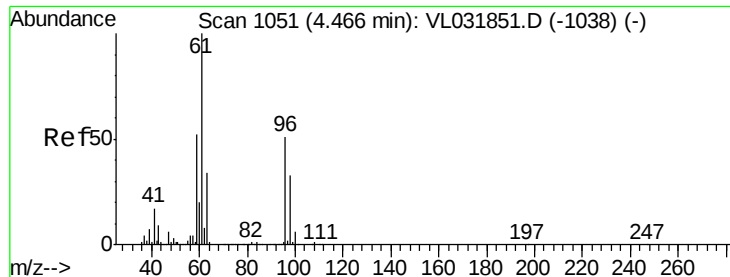
10000

0

3.45 3.46 3.50

Time-->





#17

tert-Butyl alcohol

Concen: 1.13 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. 0.02 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 59 Resp: 84276

Ion Ratio Lower Upper

59 100

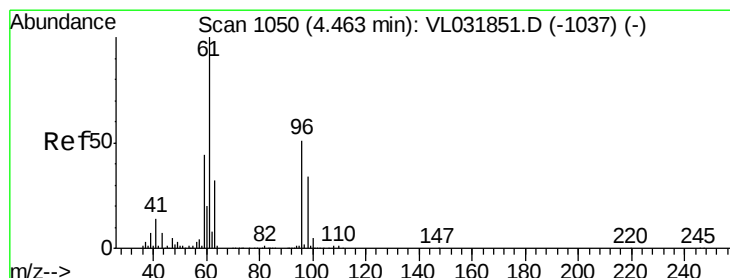
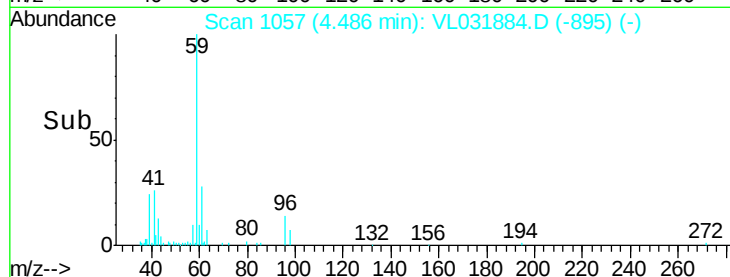
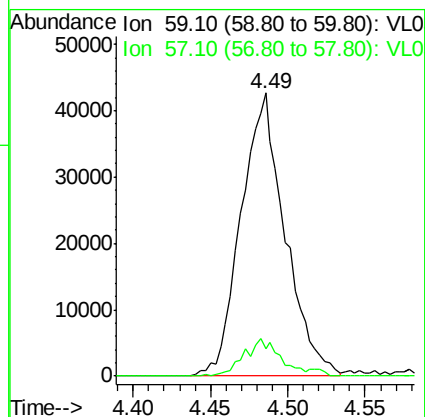
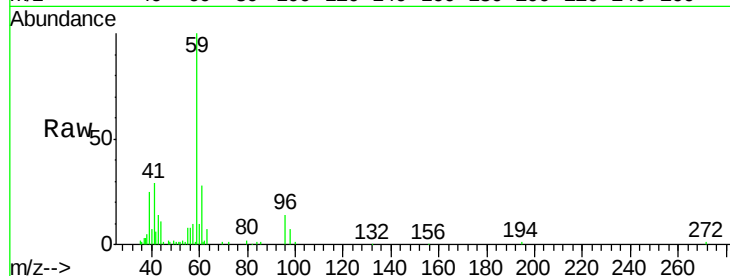
57 11.6 8.5 12.7

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 1.07 ppbv

RT: 4.47 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

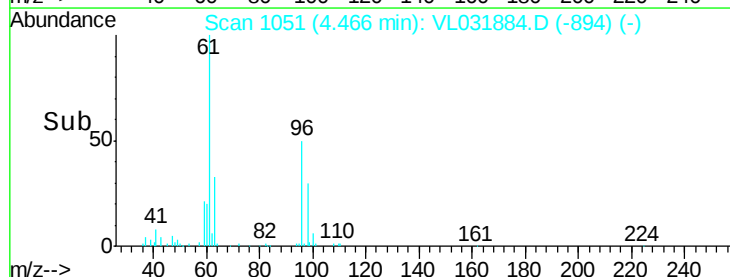
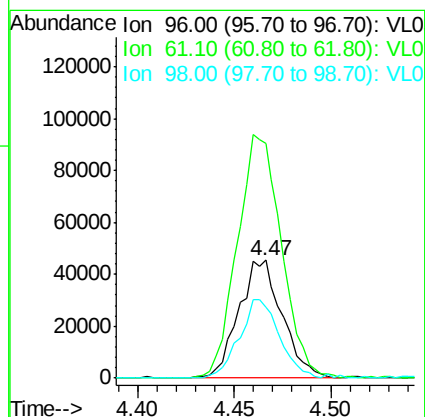
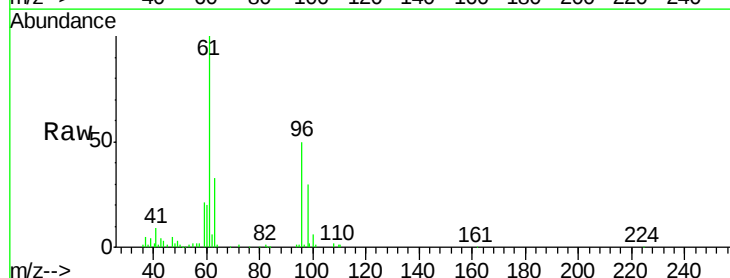
Tgt Ion: 96 Resp: 71172

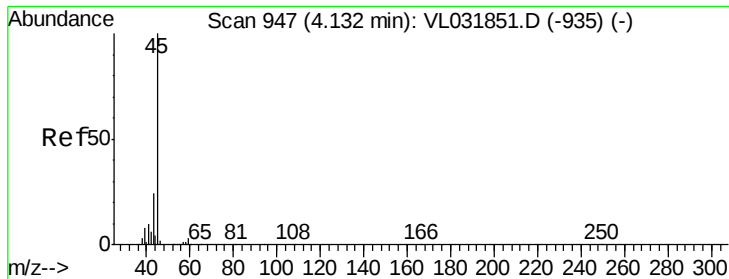
Ion Ratio Lower Upper

96 100

61 198.9 161.0 241.6

98 60.1 52.7 79.1





#19

Isopropyl Alcohol

Concen: 1.06 ppbv m

RT: 4.14 min Scan# 948

Delta R.T. 0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 45 Resp: 107438

Ion Ratio Lower Upper

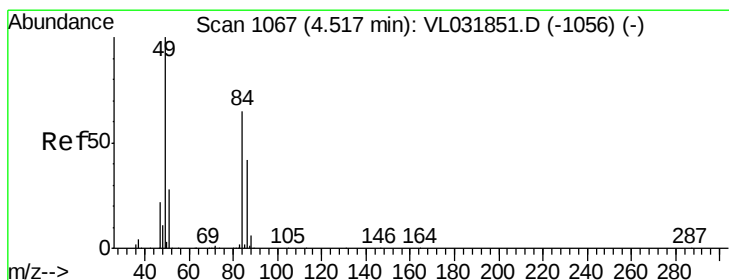
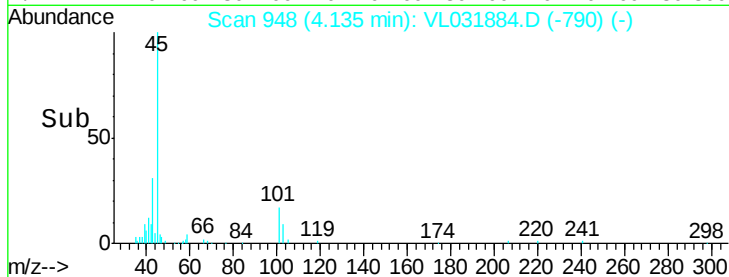
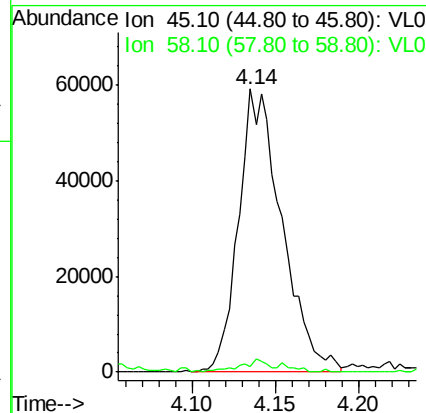
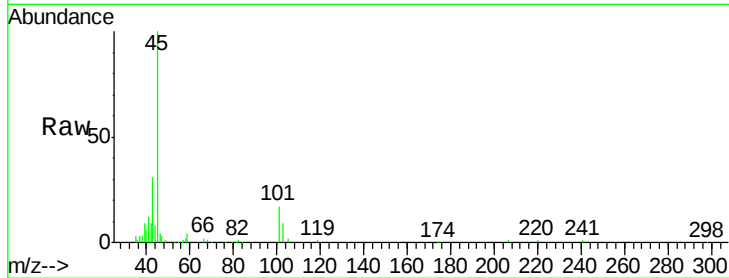
45 100

58 4.6 1.7 2.5#

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#20

Methylene Chloride

Concen: 1.07 ppbv

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion: 84 Resp: 70328

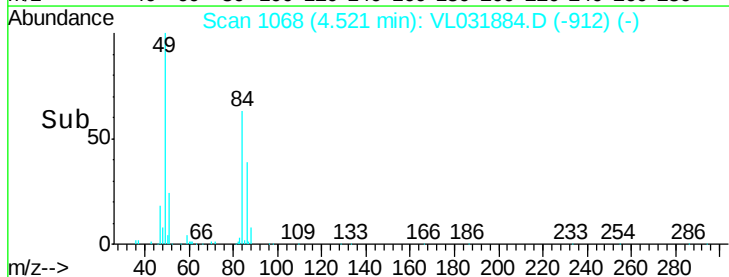
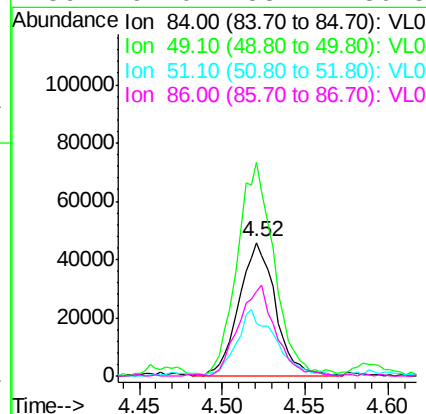
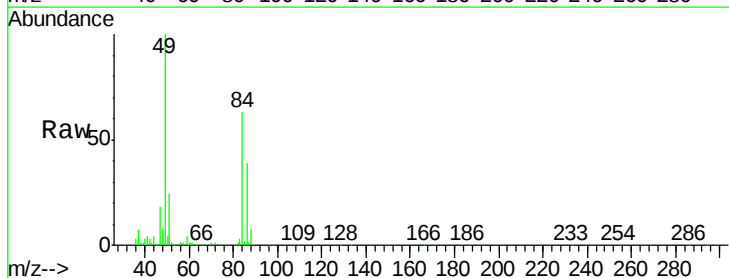
Ion Ratio Lower Upper

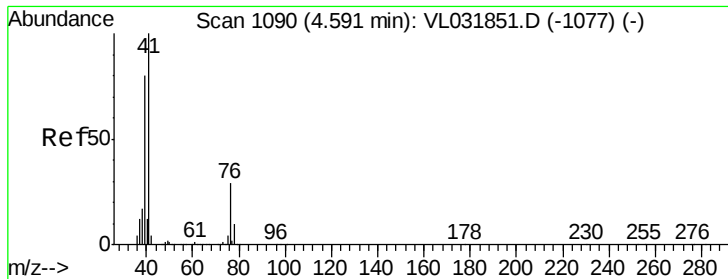
84 100

49 157.8 125.6 188.4

51 37.9 36.4 54.6

86 62.0 53.7 80.5





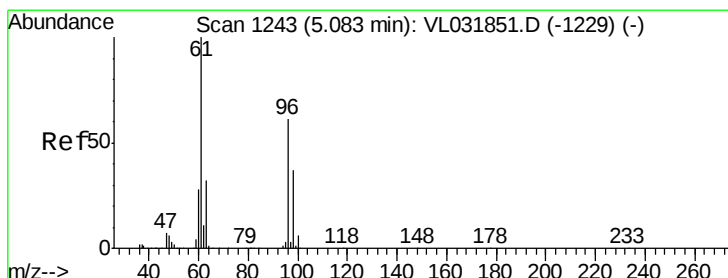
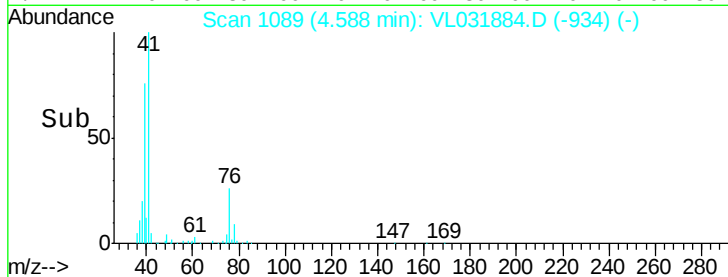
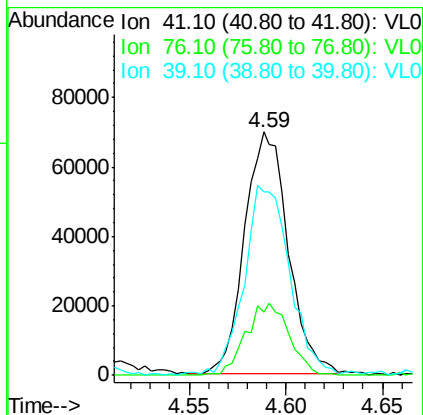
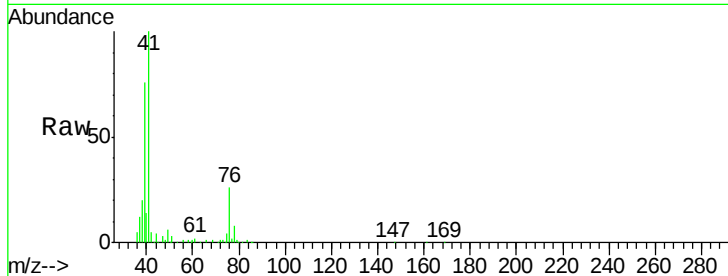
#21
Allvl Chloride
Concen: 1.06 ppbv
RT: 4.59 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.5	23.4	35.2
39	82.7	67.6	101.4

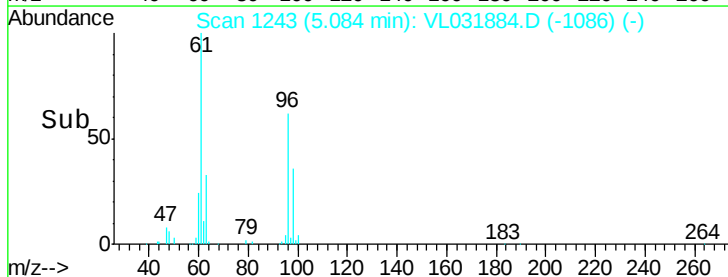
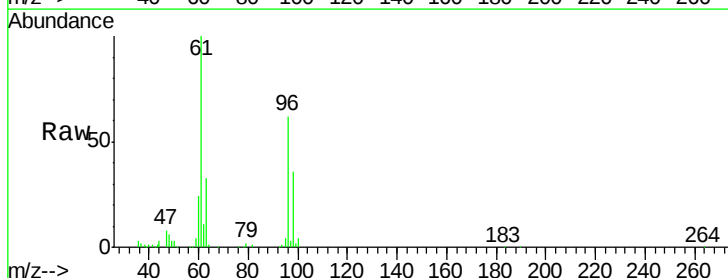
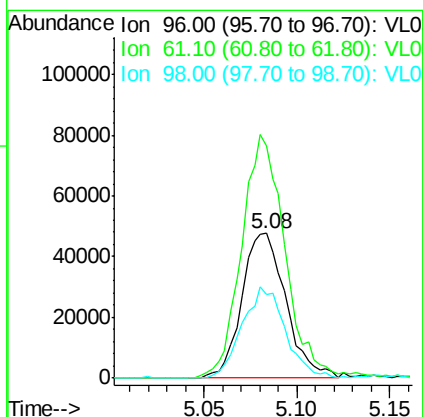
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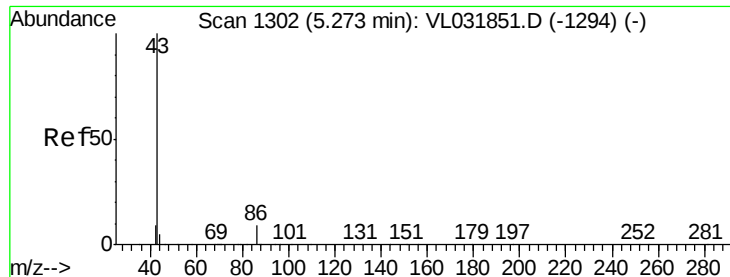
sam
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#22
trans-1,2-Dichloroethene
Concen: 1.14 ppbv
RT: 5.08 min Scan# 1243
Delta R.T. 0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.2	131.1	196.7
98	57.9	47.6	71.4





#23

Vinyl Acetate

Concen: 0.99 ppbv

RT: 5.27 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

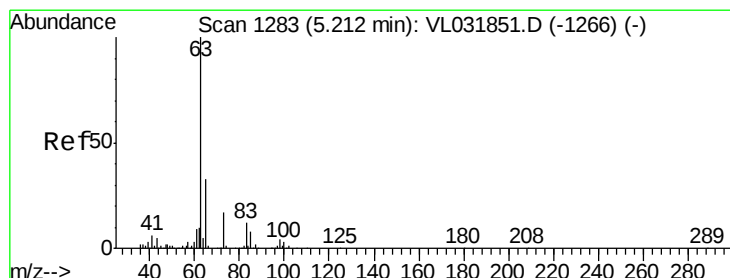
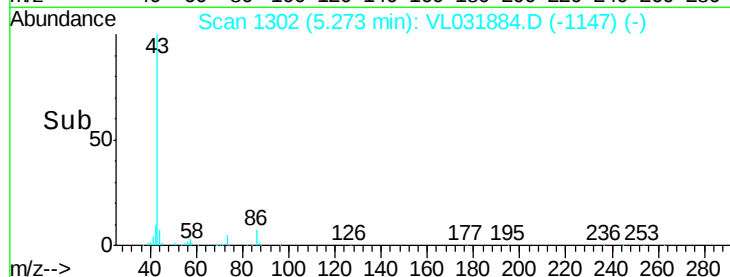
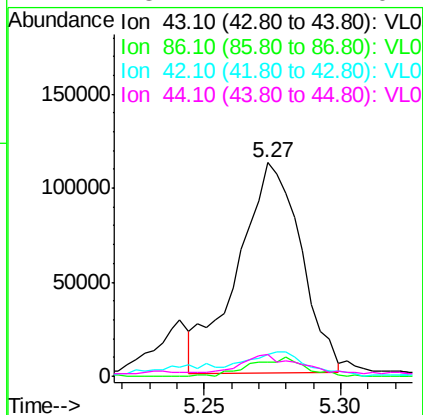
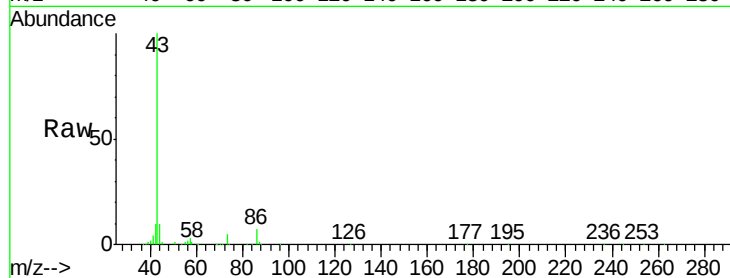
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion	43	Resp	180612
Ion Ratio	Lower	Upper	
43	100		
86	7.0	5.8	8.8
42	8.3	8.5	12.7#
44	8.4	4.2	6.4#

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 1.06 ppbv

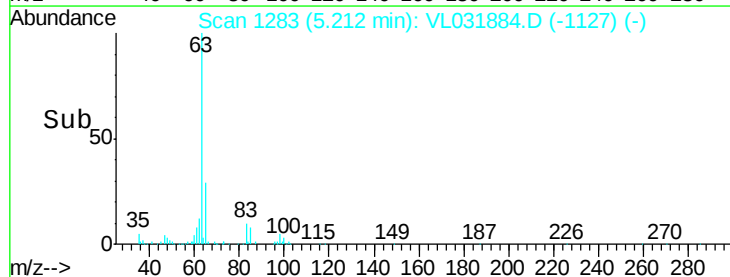
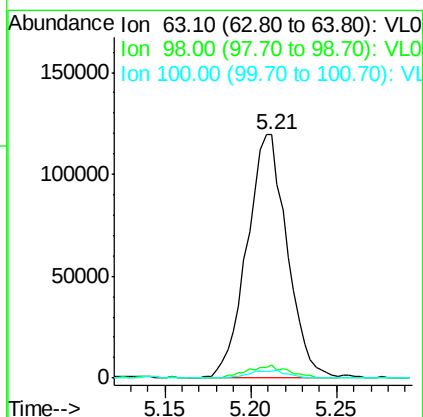
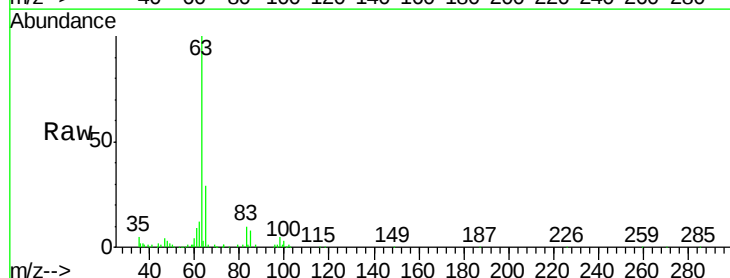
RT: 5.21 min Scan# 1283

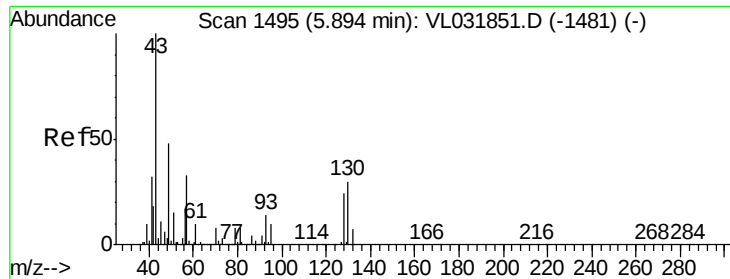
Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion	63	Resp	194024
Ion Ratio	Lower	Upper	
63	100		
98	5.1	2.4	7.2
100	2.6	1.5	4.4





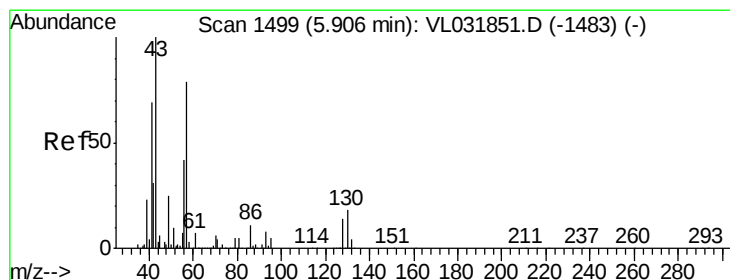
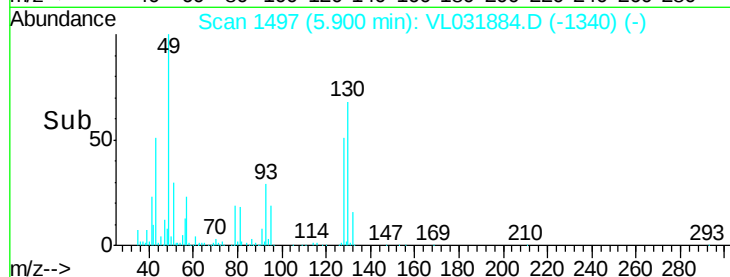
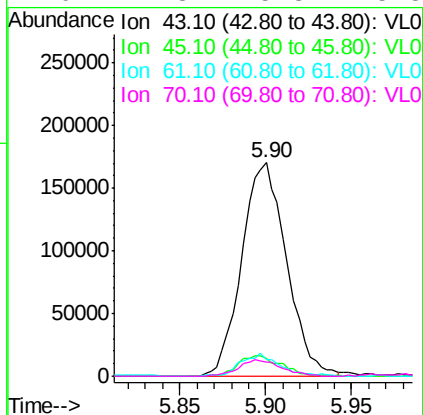
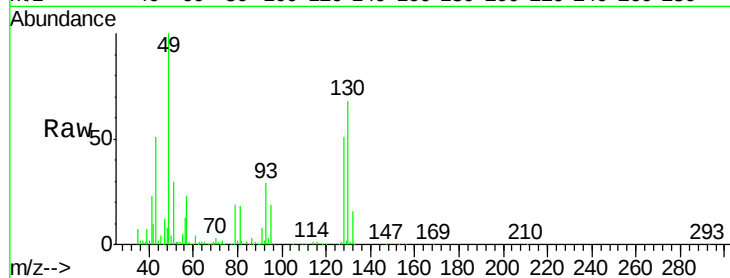
#25
Ethyl Acetate
Concen: 1.09 ppbv
RT: 5.90 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.5	7.8	11.8
61	9.3	7.2	10.8
70	7.3	5.8	8.8

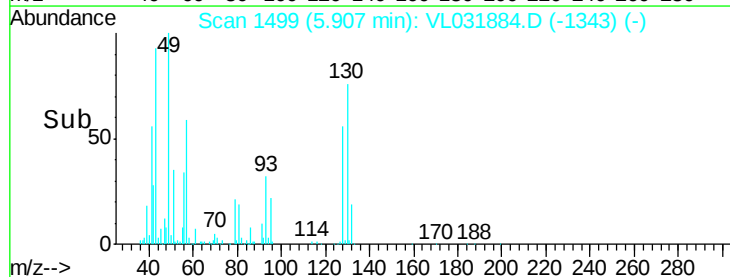
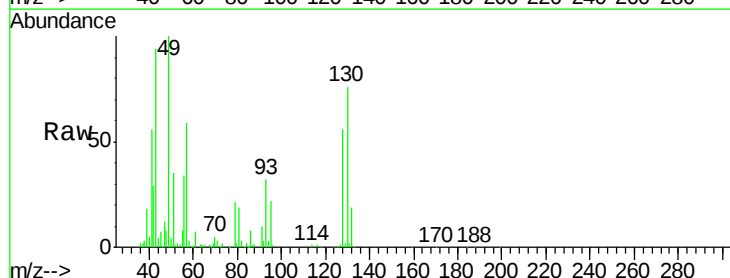
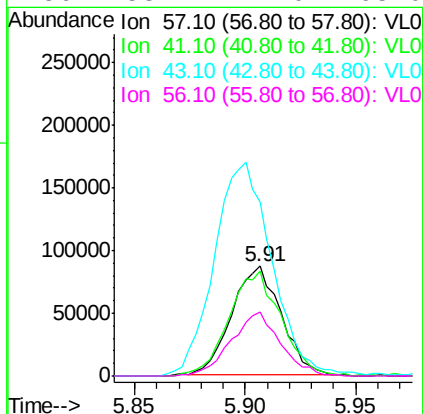
Manual Integrations
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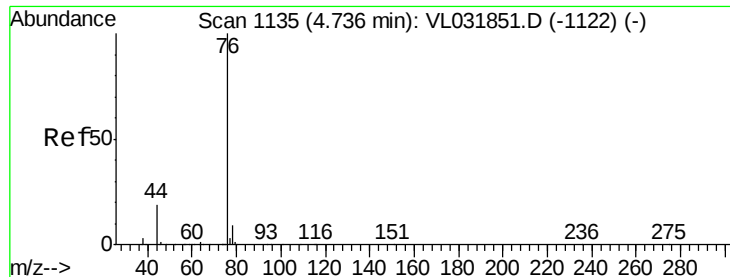
sam
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#26
Hexane
Concen: 1.04 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion	Ratio	Lower	Upper
57	100		
41	102.5	72.0	108.0
43	230.8	169.8	254.8
56	58.1	42.0	63.0





#27

Carbon Disulfide

Concen: 1.05 ppbv

RT: 4.74 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

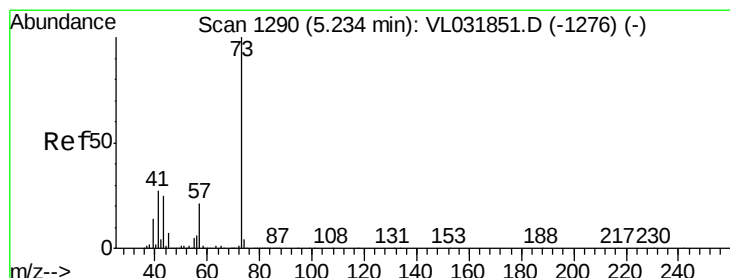
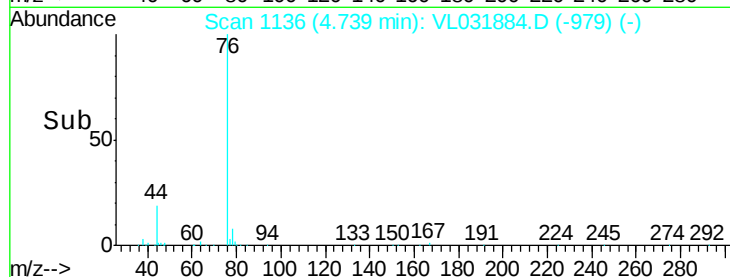
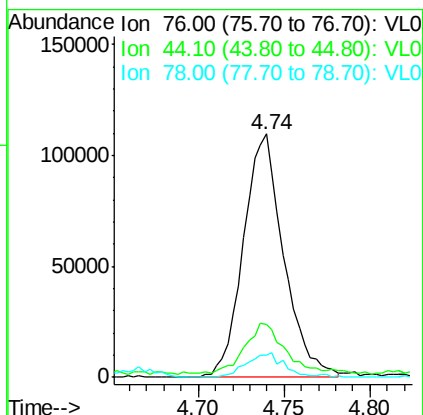
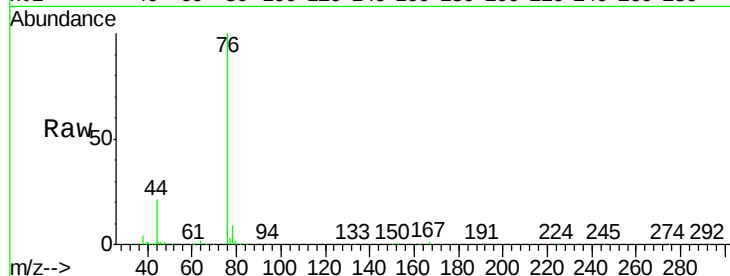
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	76	Resp:	178669
Ion	Ratio	Lower	Upper
76	100		
44	22.8	15.6	23.4
78	9.7	7.6	11.4

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#28

Methyl tert-Butyl Ether

Concen: 0.97 ppbv m

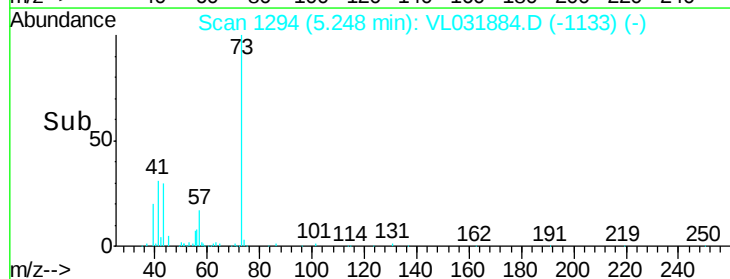
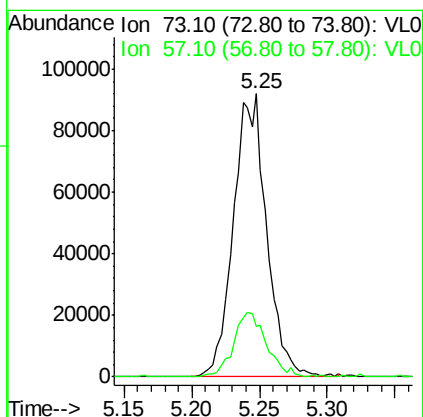
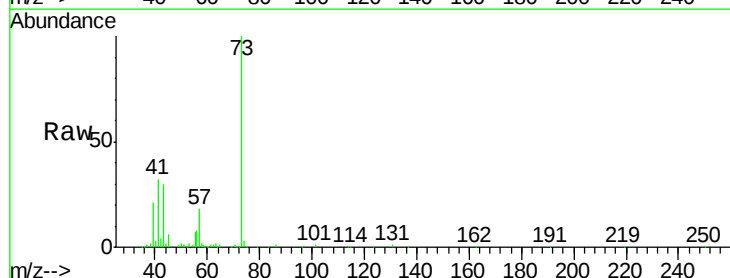
RT: 5.25 min Scan# 1294

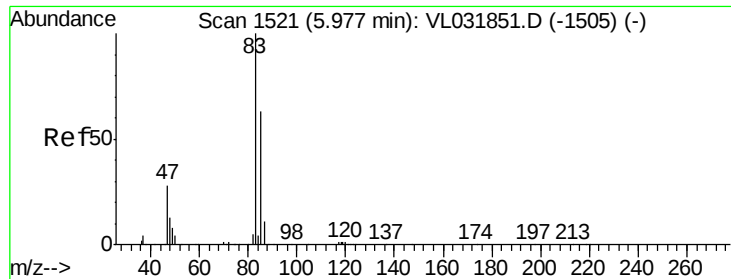
Delta R.T. 0.02 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	73	Resp:	156540
Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.6	26.4





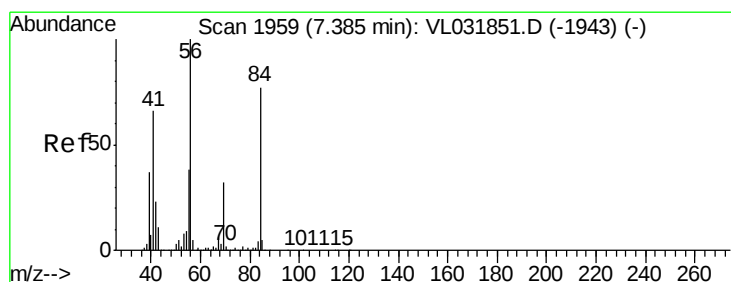
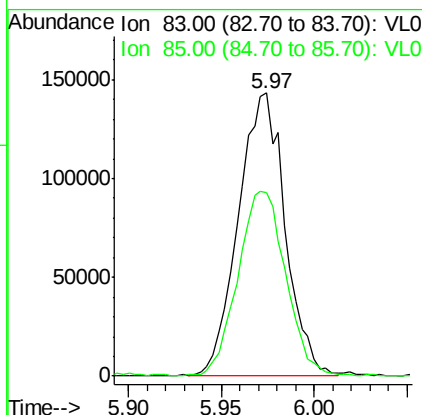
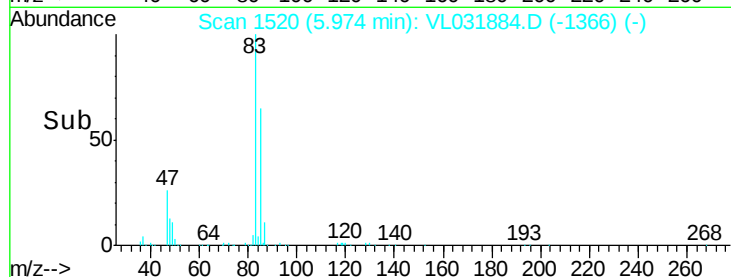
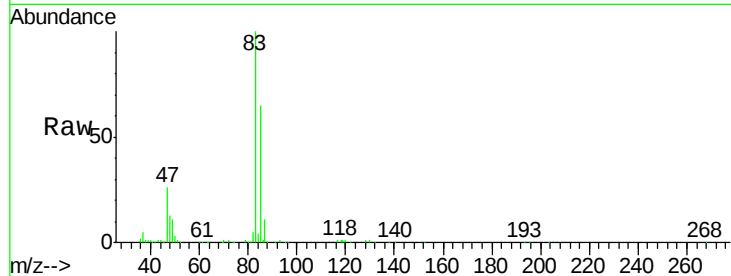
#29
Chloroform
Concen: 1.13 ppbv
RT: 5.97 min Scan# 1520
Delta R.T. -0.01 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion: 83 Resp: 250495
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.0

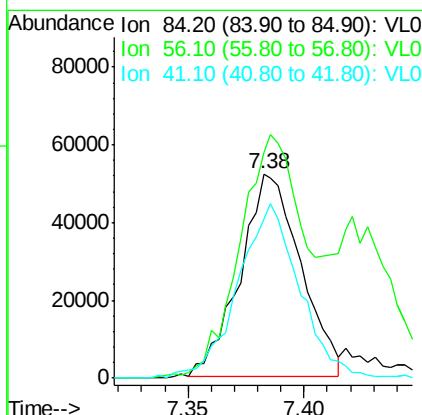
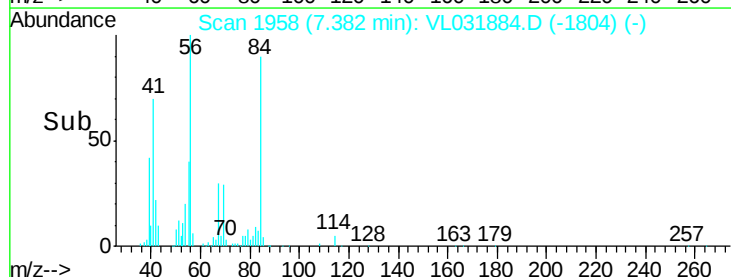
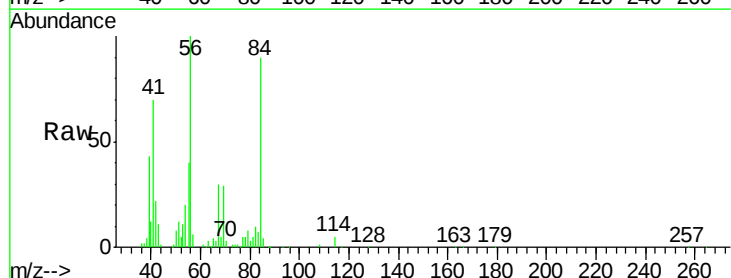
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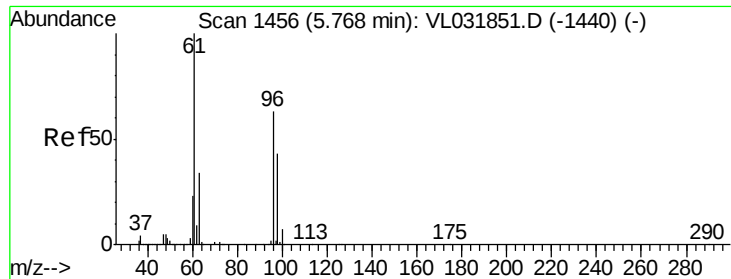
sam
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#30
Cyclohexane
Concen: 1.01 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.01 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion: 84 Resp: 94654
Ion Ratio Lower Upper
84 100
56 203.5 107.7 161.5#
41 87.9 68.2 102.2





#31

cis-1,2-Dichloroethene

Concen: 0.95 ppbv

RT: 5.76 min Scan# 1454

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

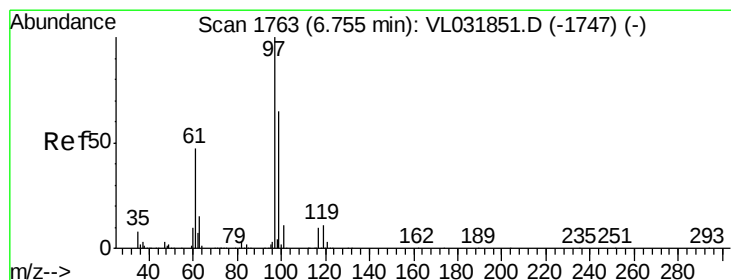
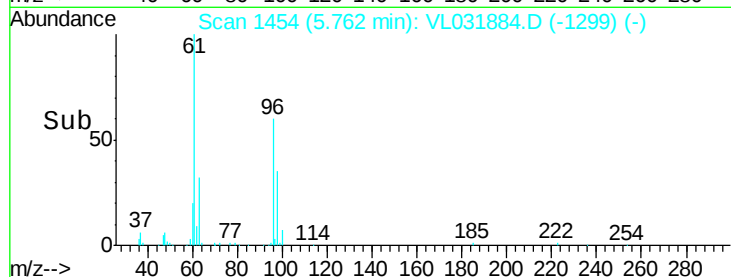
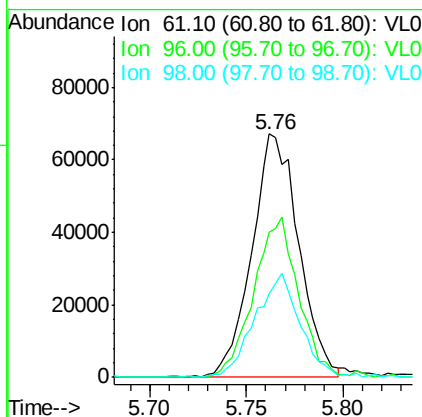
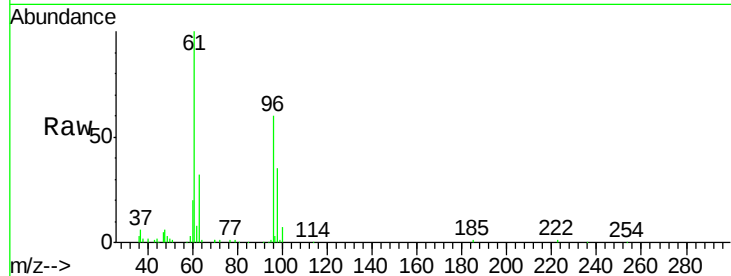
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	61	Resp:	113533
Ion Ratio	Lower	Upper	
61	100		
96	59.6	47.6	71.4
98	34.0	30.3	45.5

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#32

1,1,1-Trichloroethane

Concen: 1.11 ppbv

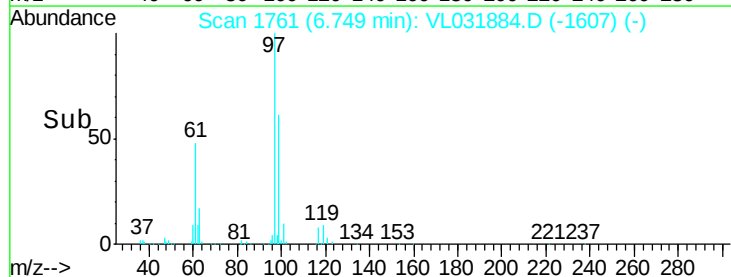
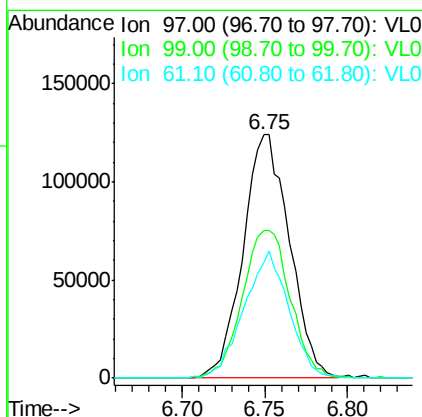
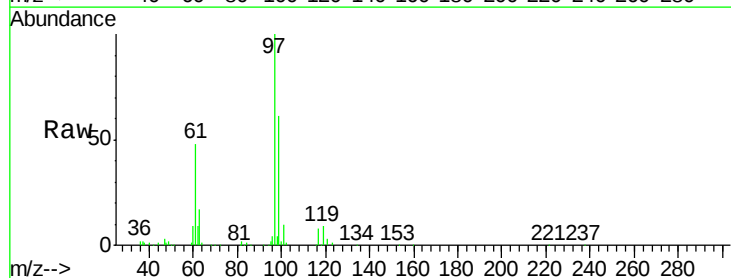
RT: 6.75 min Scan# 1761

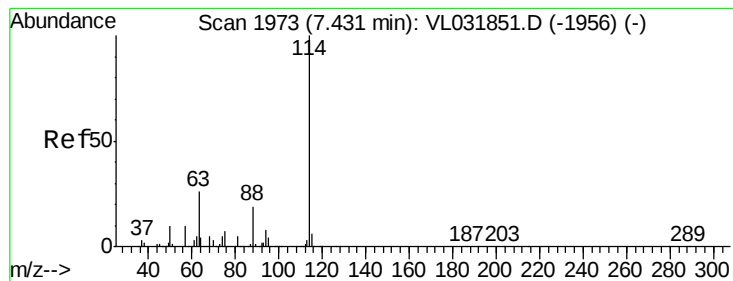
Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	97	Resp:	240961
Ion Ratio	Lower	Upper	
97	100		
99	62.9	51.5	77.3
61	50.5	40.0	60.0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.43 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

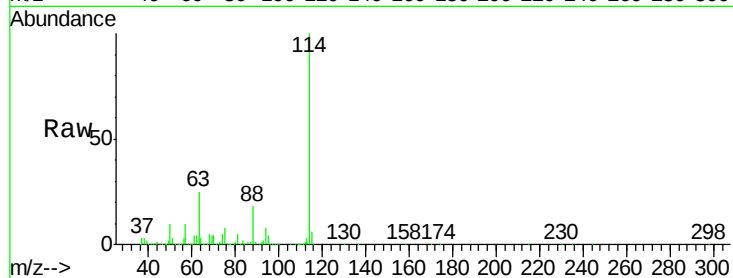
ClientSampleId :

LOQ-AIR-02-QT2-2018

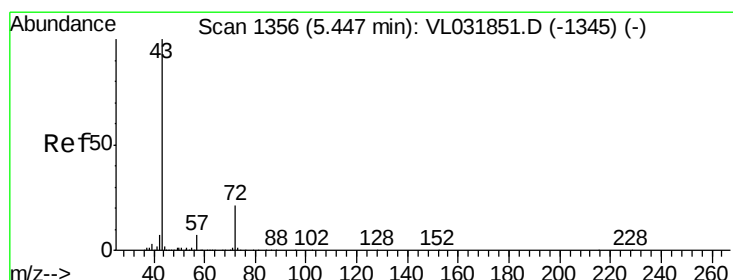
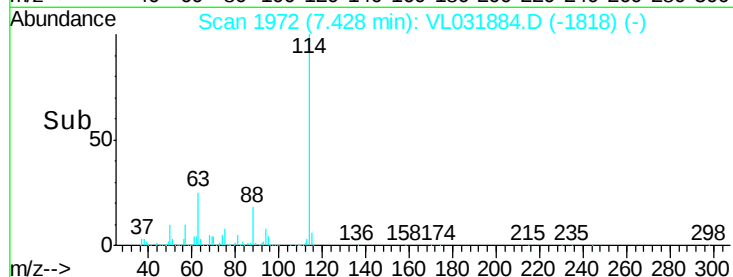
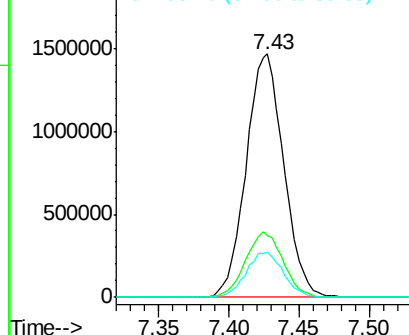
Tot Ion:	114	Resp:	2733814
Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.8	32.6
88	18.5	14.6	22.0

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



#34

2-Butanone

Concen: 1.03 ppbv

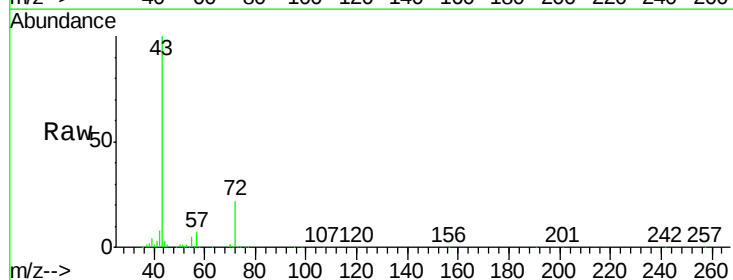
RT: 5.46 min Scan# 1359

Delta R.T. 0.01 min

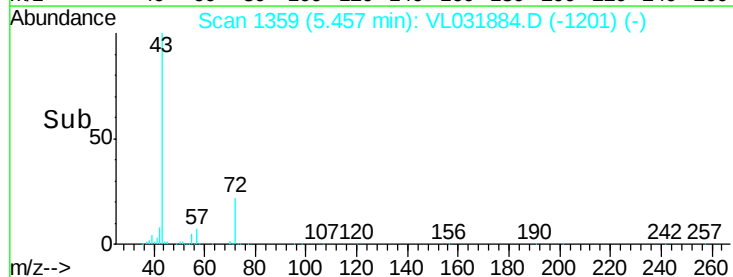
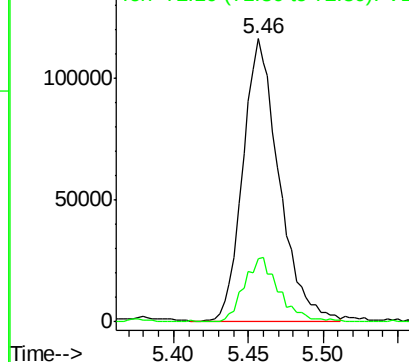
Lab File: VL031884.D

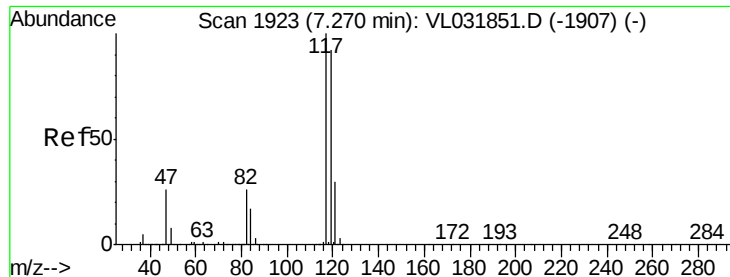
Acq: 19 Apr 2018 19:08

Tgt Ion:	43	Resp:	195302
Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.6	27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.05 ppbv

RT: 7.27 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

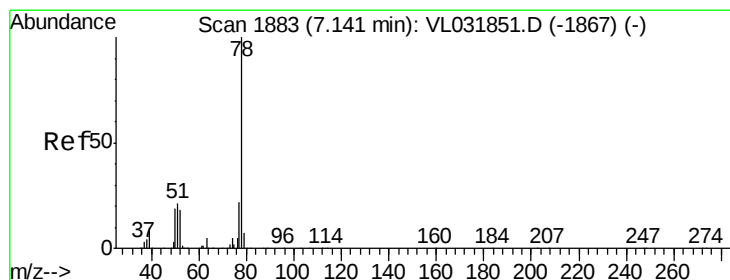
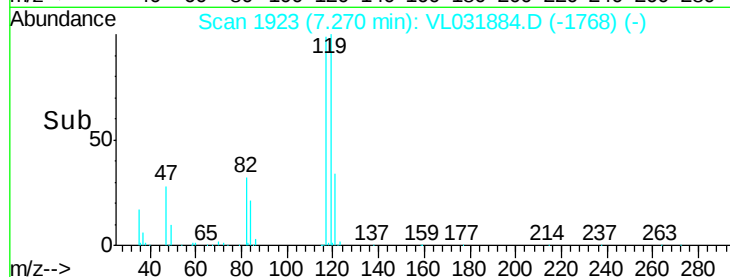
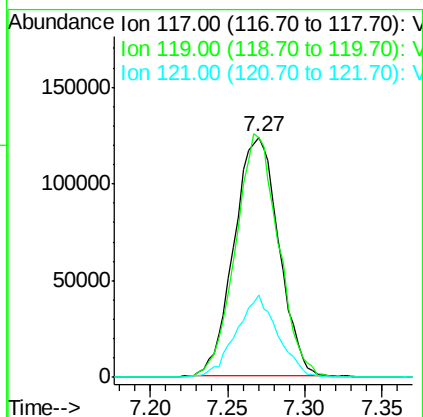
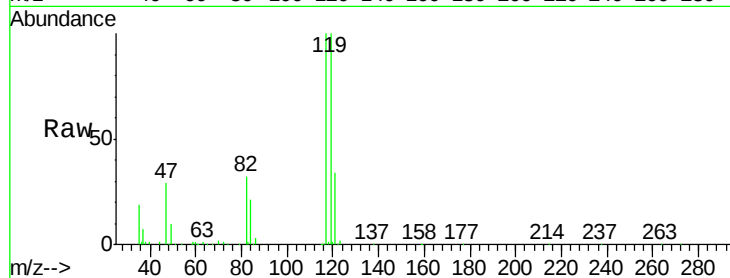
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	117	Resp:	248642
Ion Ratio	Lower	Upper	
117	100		
119	100.3	76.9	115.3
121	34.2	24.5	36.7

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#36

Benzene

Concen: 1.00 ppbv

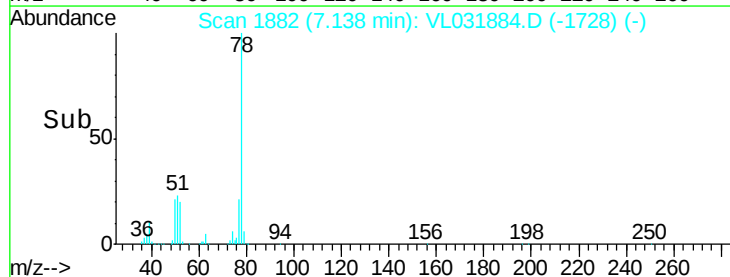
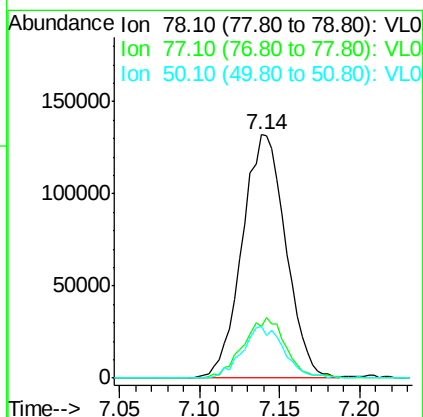
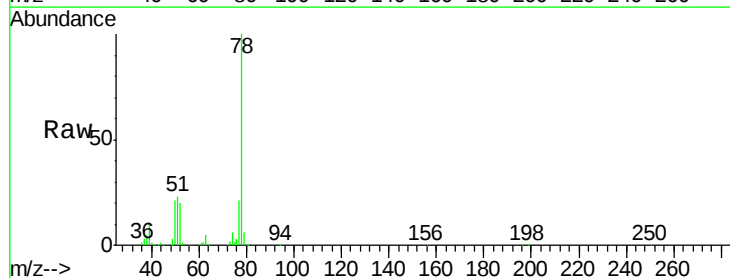
RT: 7.14 min Scan# 1882

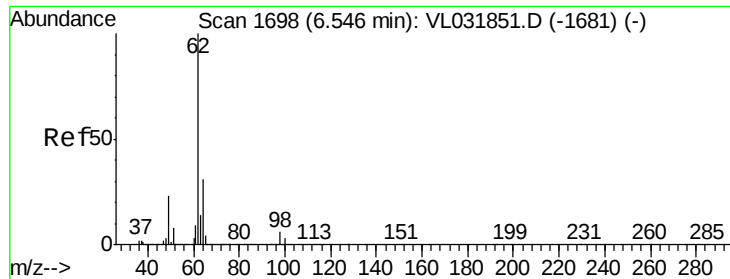
Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	78	Resp:	245659
Ion Ratio	Lower	Upper	
78	100		
77	20.8	19.2	28.8
50	21.2	16.7	25.1





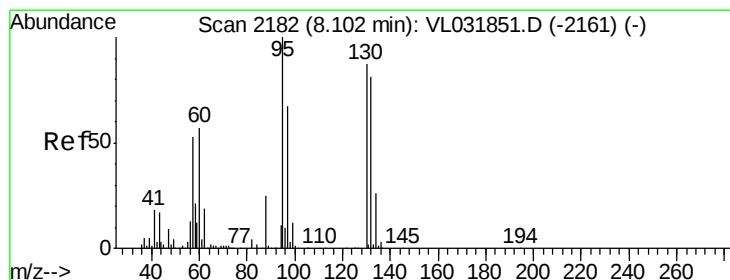
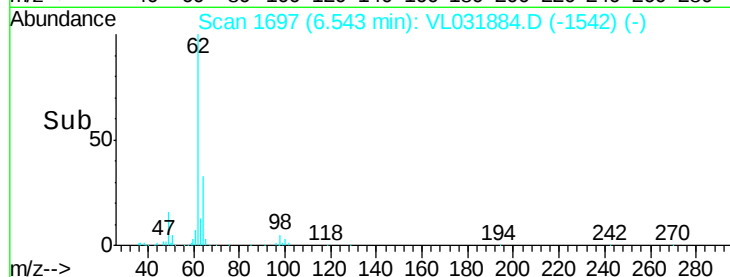
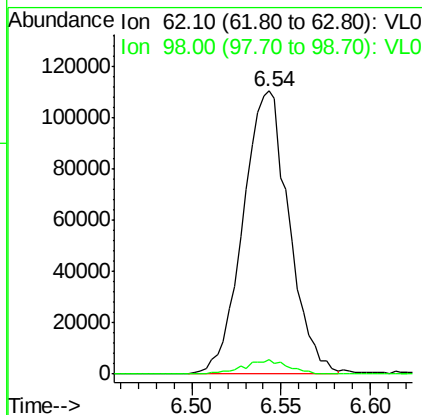
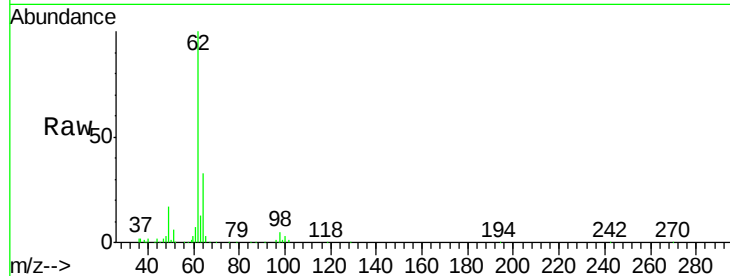
#37
 1,2-Dichloroethane
 Concen: 1.09 ppbv
 RT: 6.54 min Scan# 1697
 Delta R.T. -0.00 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Resp	Lower	Upper
62	100	199183		
98	4.8	4.0	6.0	

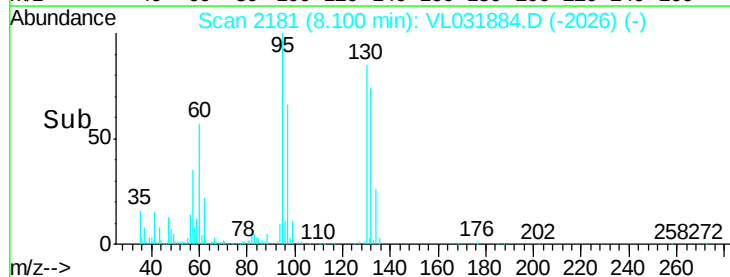
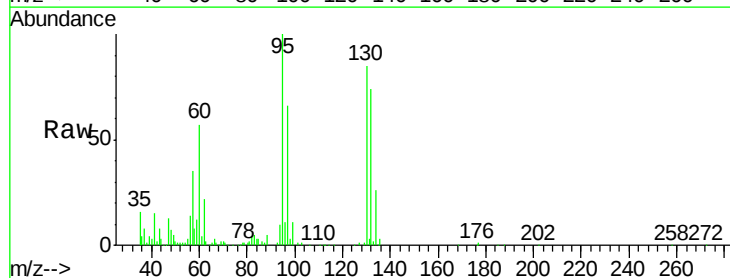
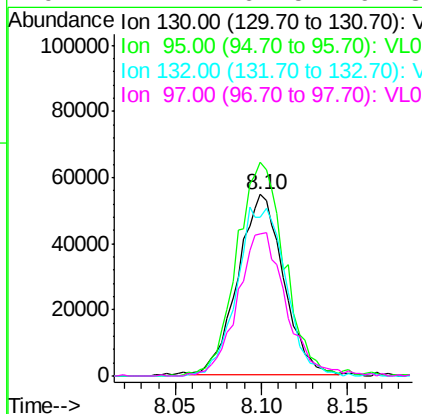
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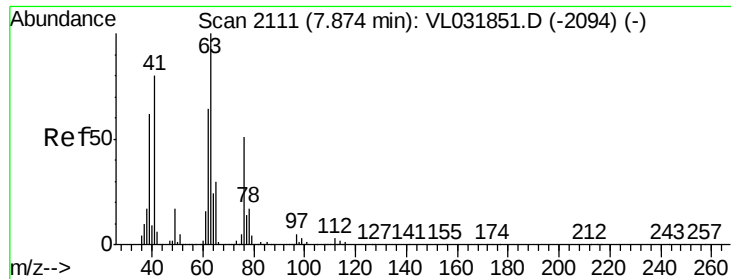
sam
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#38
 Trichloroethene
 Concen: 1.00 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	99767		
95	117.1	96.6	144.8	
132	87.7	79.1	118.7	
97	77.4	61.5	92.3	





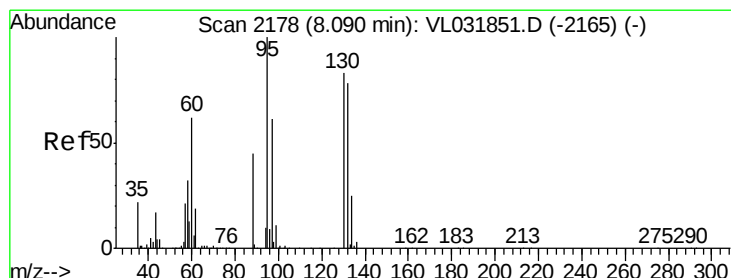
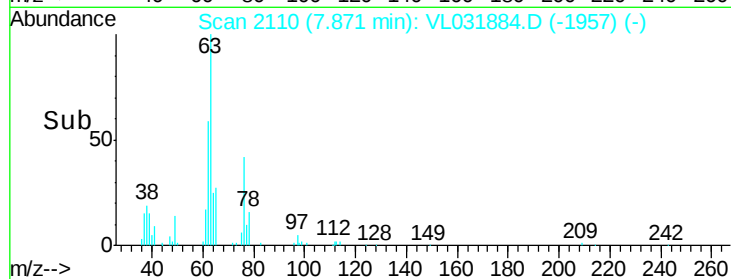
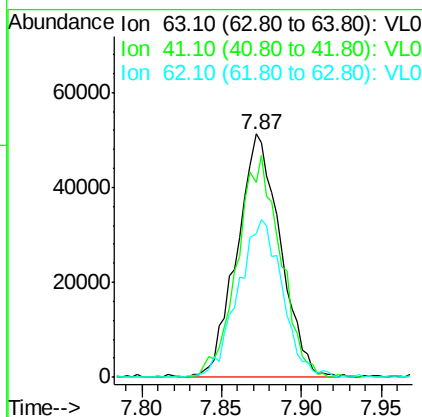
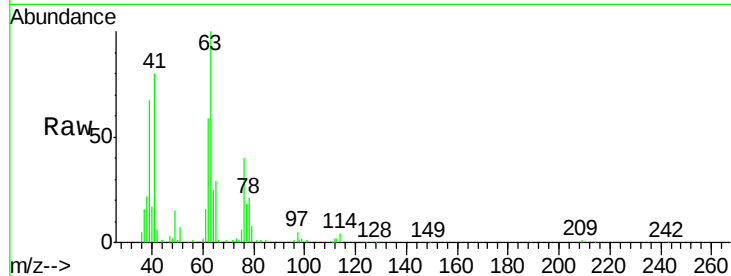
#39
 1,2-Dichloropropane
 Concen: 1.04 ppbv
 RT: 7.87 min Scan# 2110
 Delta R.T. -0.01 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.7	65.8	98.6
62	58.8	55.0	82.6

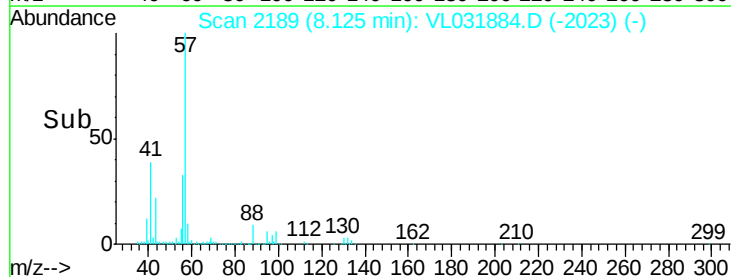
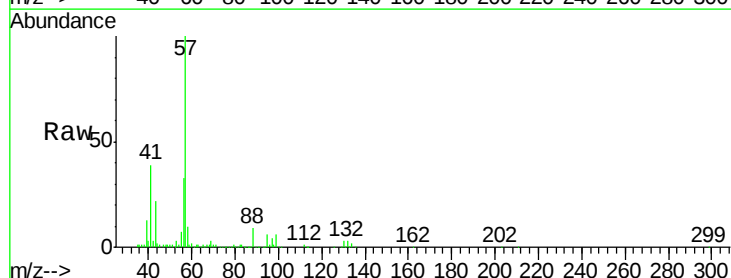
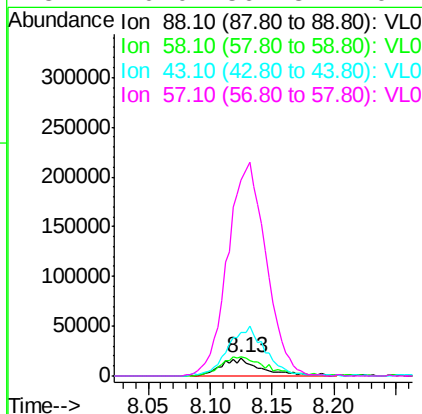
Manual Integrations
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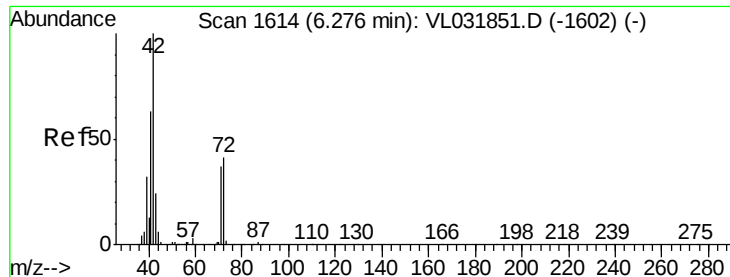
sam
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#40
 1,4-Dioxane
 Concen: 1.09 ppbv m
 RT: 8.13 min Scan# 2189
 Delta R.T. 0.03 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	98.5	147.7#
43	0.0	194.3	291.5#
57	0.0	861.8	1292.6#





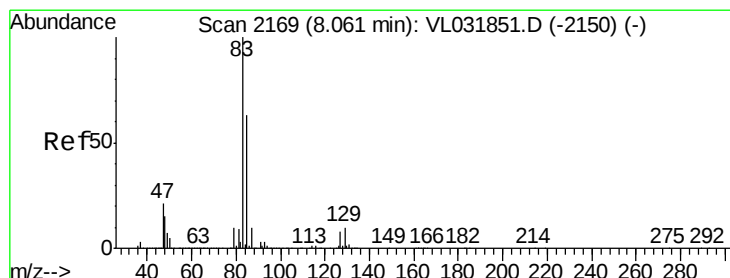
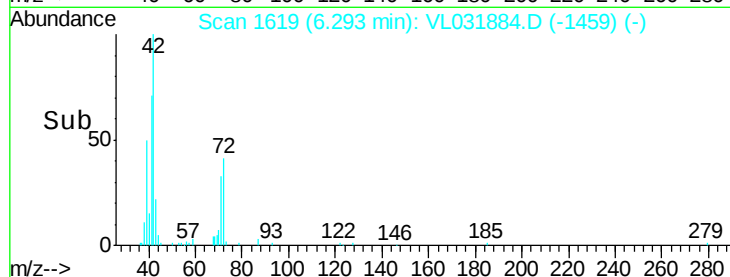
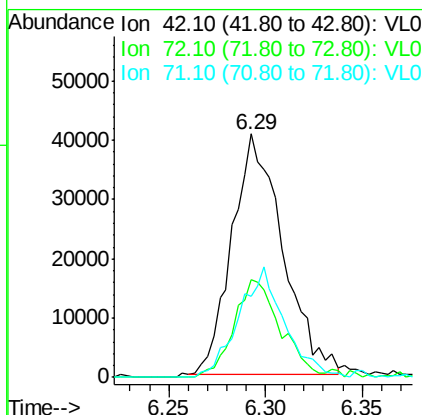
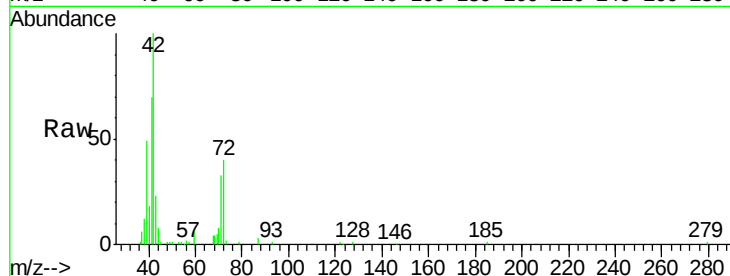
#41
Tetrahydrofuran
Concen: 0.85 ppbv
RT: 6.29 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.1	33.2	49.8
71	41.8	31.5	47.3

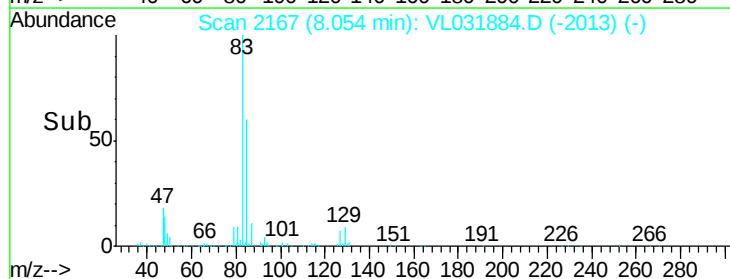
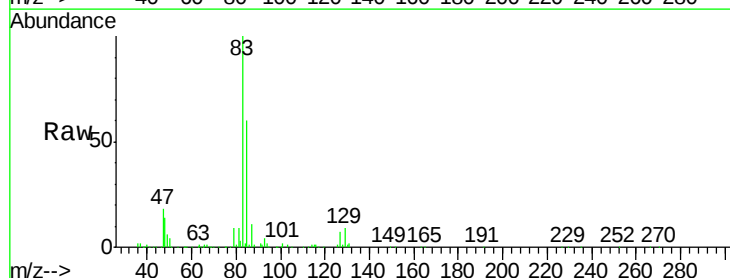
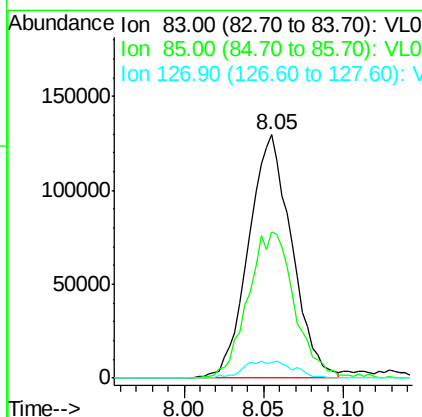
Manual Integrations
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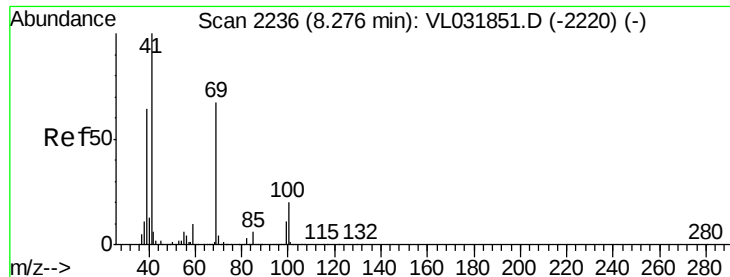
sam
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#42
Bromodichloromethane
Concen: 1.09 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. -0.01 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.0	50.5	75.7
127	6.6	6.0	9.0





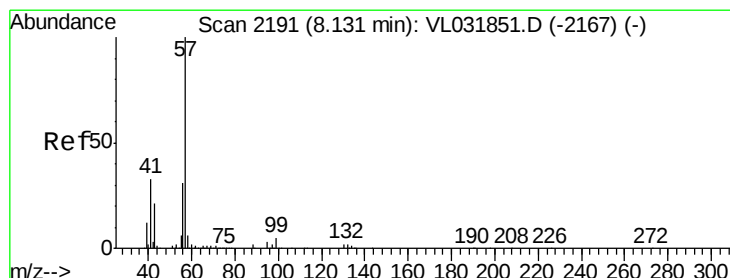
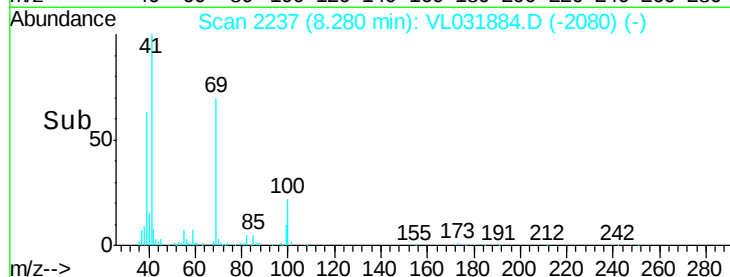
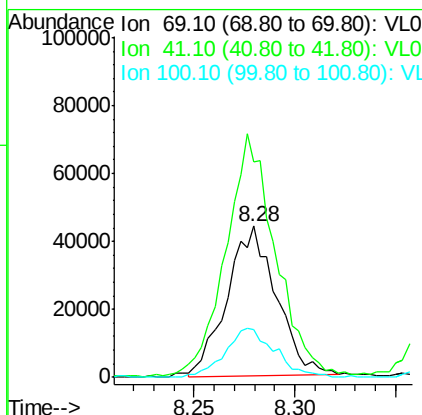
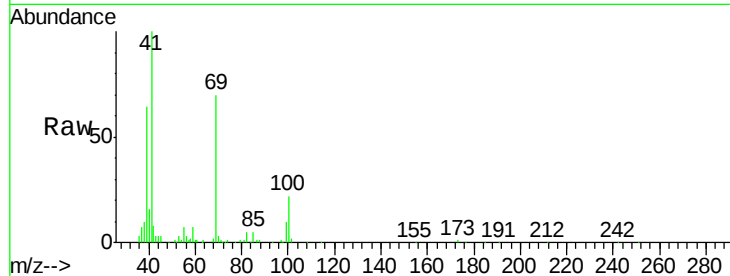
#43
Methvl Methacrvlate
Concen: 0.88 ppbv
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	165.8	117.8	176.8	
100	33.3	24.6	37.0	

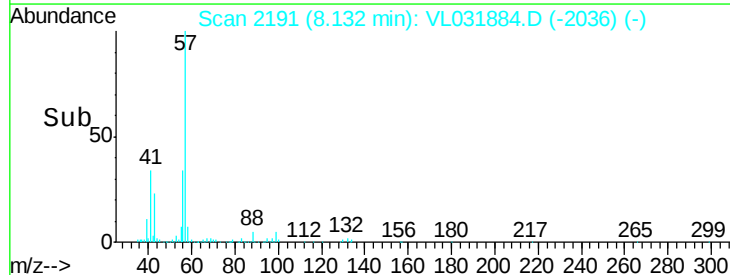
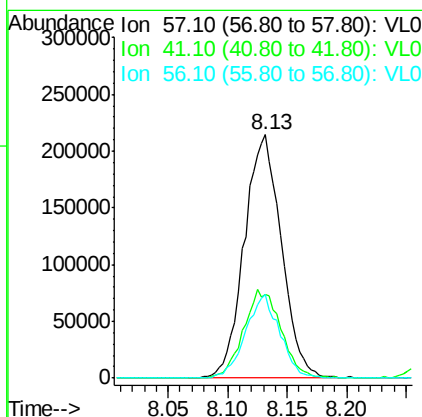
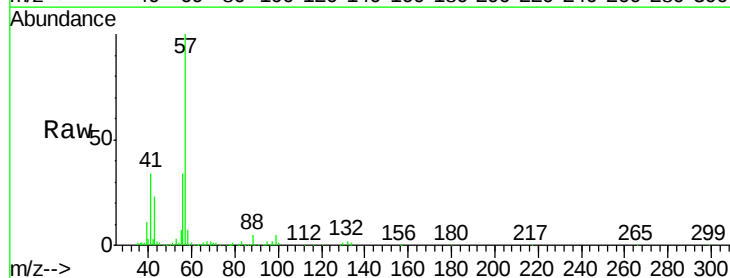
Manual Integrations
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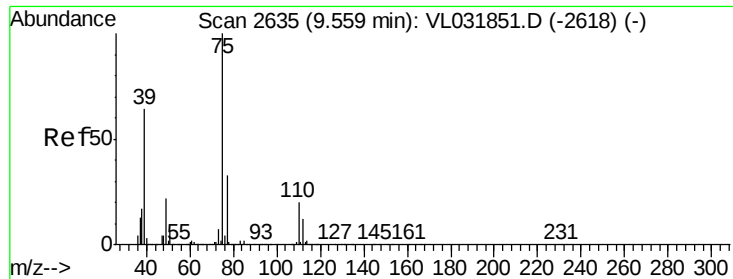
sam
4/23/2018 12:49:58 PM



#44
2,2,4-Trimethylpentane
Concen: 1.09 ppbv
RT: 8.13 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.7	27.0	40.6	
56	31.7	24.1	36.1	





#45

t-1,3-Dichloropropene

Concen: 0.85 ppbv

RT: 9.56 min Scan# 2634

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 75 Resp: 95696

Ion Ratio Lower Upper

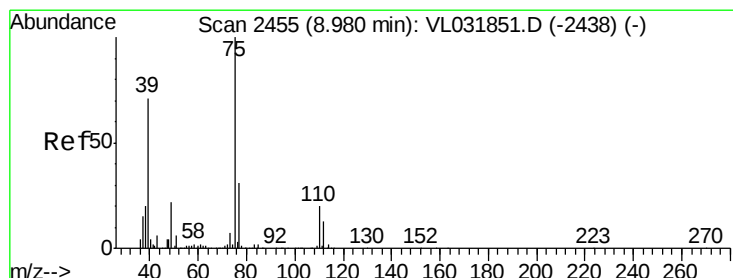
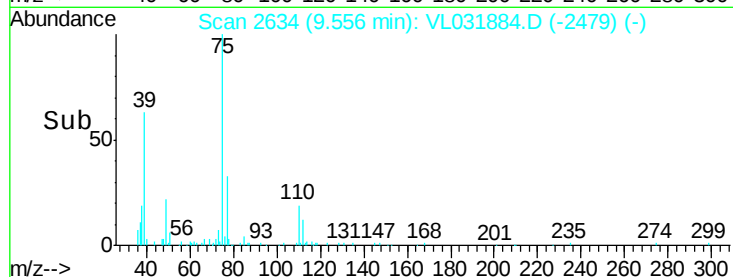
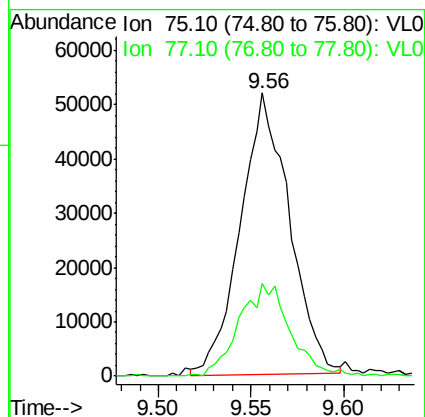
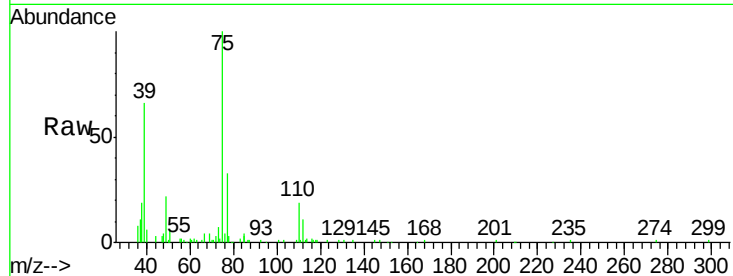
75 100

77 32.8 25.1 37.7

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#46

cis-1,3-Dichloropropene

Concen: 0.92 ppbv

RT: 8.97 min Scan# 2453

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

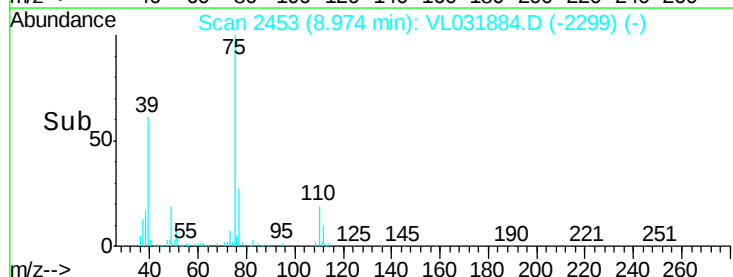
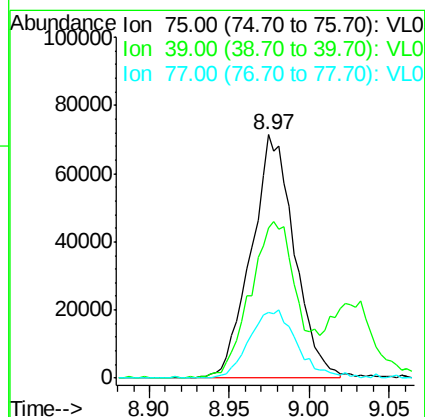
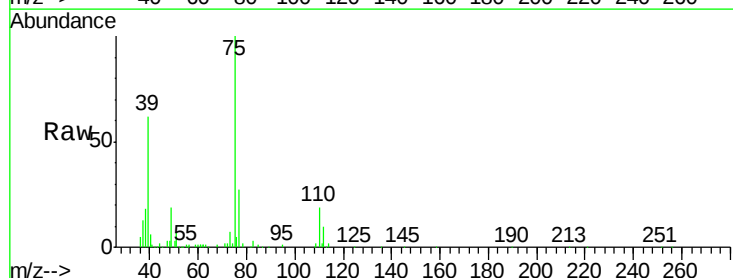
Tgt Ion: 75 Resp: 132671

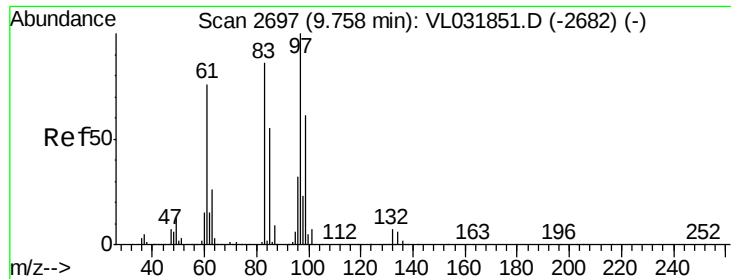
Ion Ratio Lower Upper

75 100

39 61.1 58.6 87.8

77 26.6 26.8 40.2#





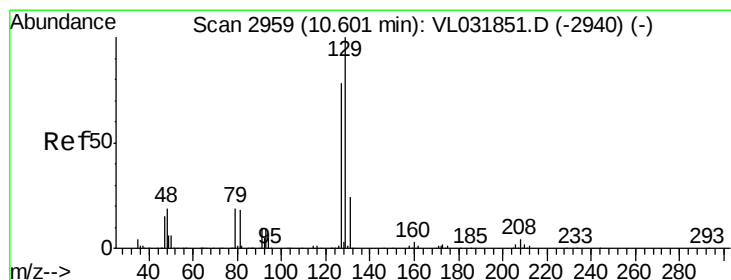
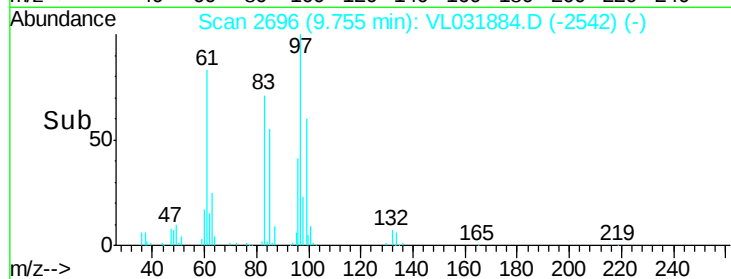
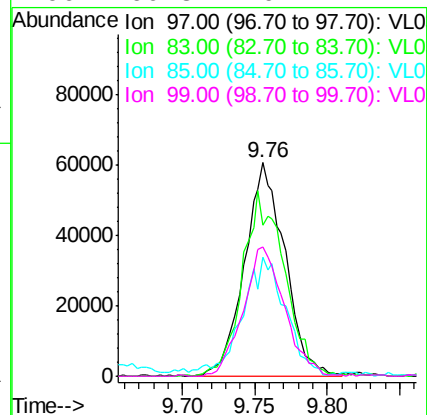
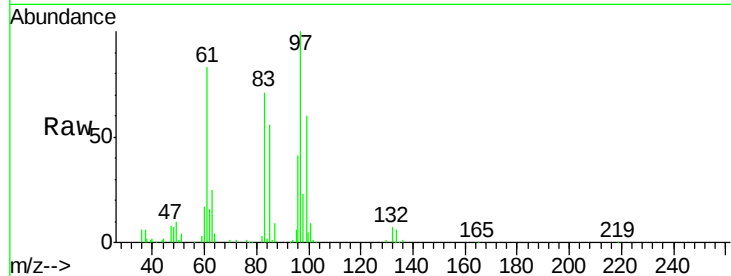
#47
 1,1,2-Trichloroethane
 Concen: 1.08 ppbv
 RT: 9.76 min Scan# 2696
 Delta R.T. -0.01 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2018

Tot Ion:	97	Resp:	117413
Ion Ratio	Lower	Upper	
97	100		
83	71.0	69.1	103.7
85	53.8	43.7	65.5
99	60.3	49.4	74.2

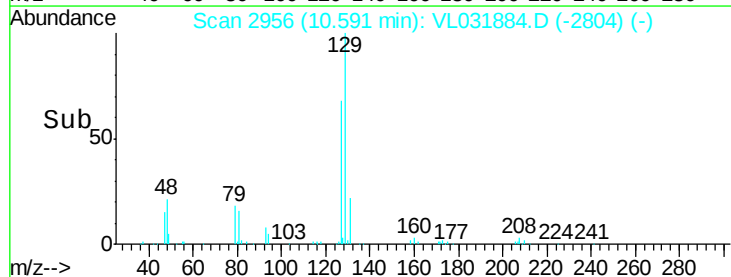
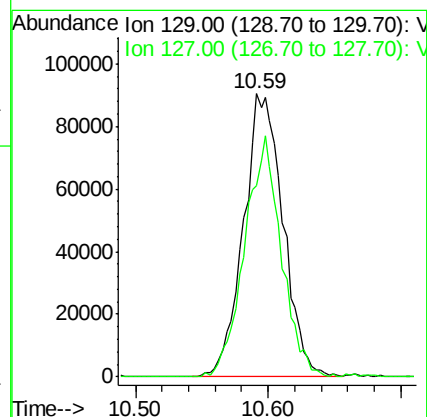
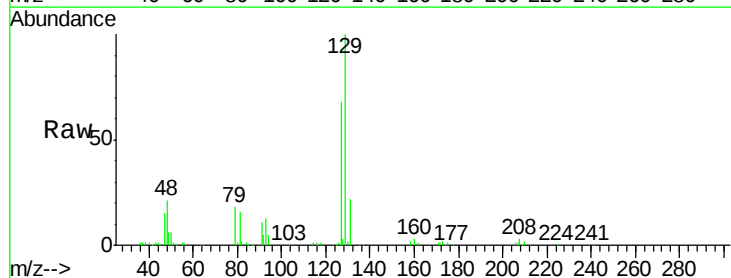
Manual Integrations
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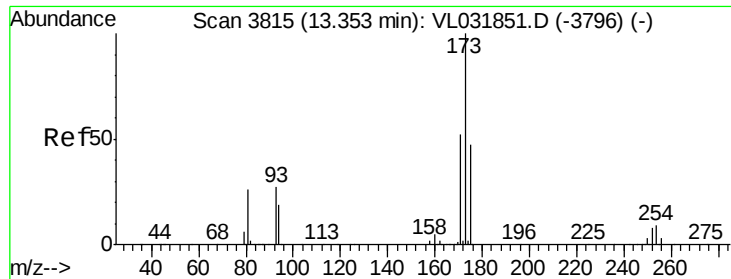
sam
 4/23/2018 12:49:58 PM



#48
 Dibromochloromethane
 Concen: 1.07 ppbv
 RT: 10.59 min Scan# 2956
 Delta R.T. -0.01 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Tgt Ion:	129	Resp:	187483
Ion Ratio	Lower	Upper	
129	100		
127	78.7	39.1	117.5





#49

Bromoform

Concen: 1.06 ppbv

RT: 13.35 min Scan# 3814

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

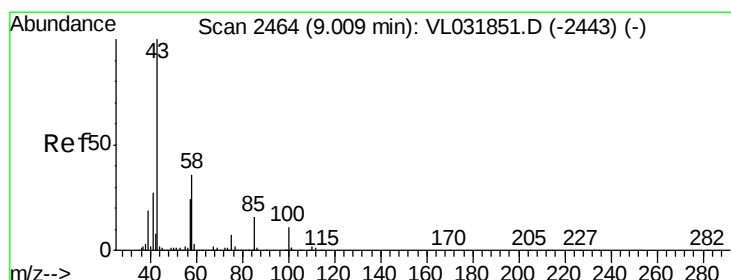
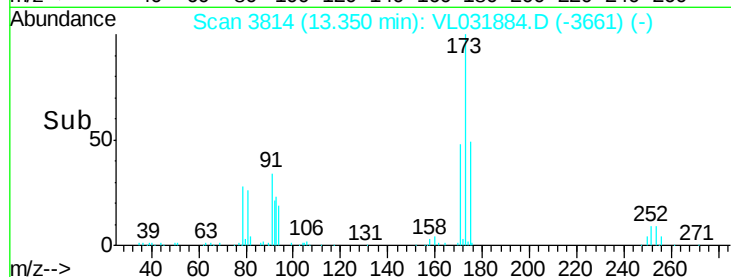
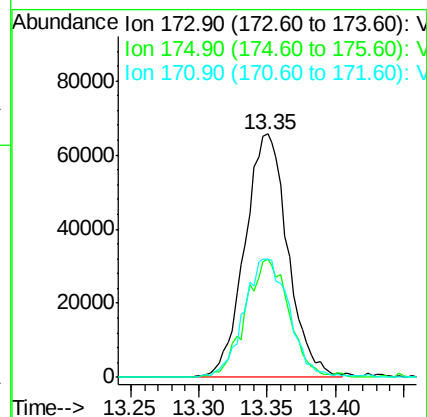
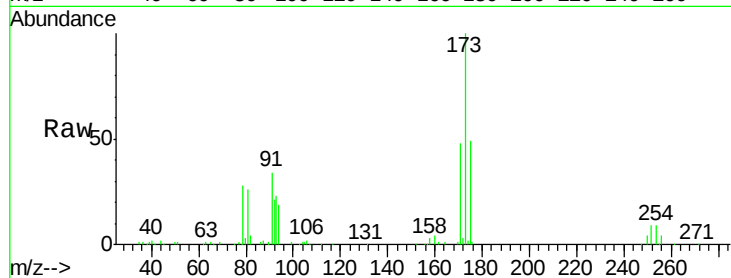
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	173	Resp:	143591
Ion Ratio	Lower	Upper	
173	100		
175	49.5	39.0	58.6
171	51.7	41.4	62.0

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#50

4-Methyl-2-Pentanone

Concen: 1.06 ppbv m

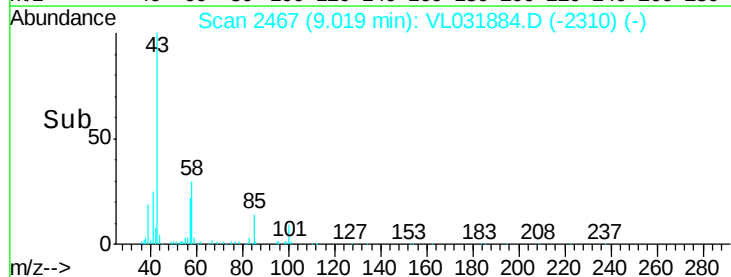
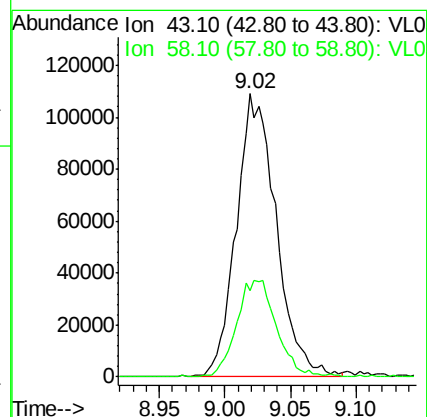
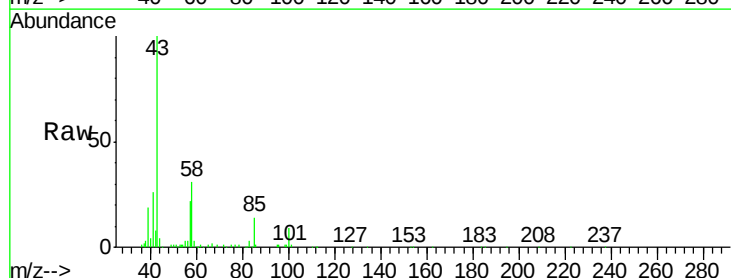
RT: 9.02 min Scan# 2467

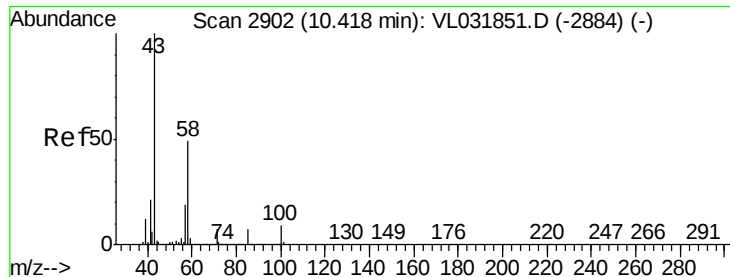
Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	43	Resp:	230004
Ion Ratio	Lower	Upper	
43	100		
58	0.0	28.6	43.0#





#51

2-Hexanone

Concen: 1.04 ppbv m

RT: 10.43 min Scan# 2907

Delta R.T. 0.02 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

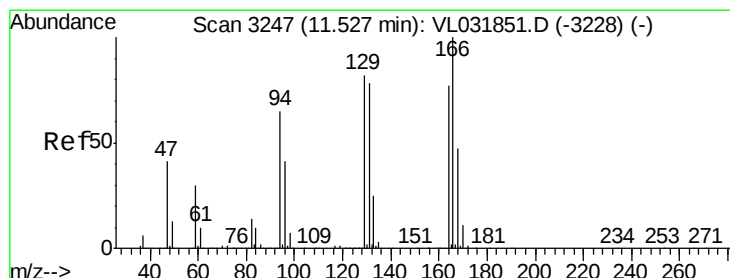
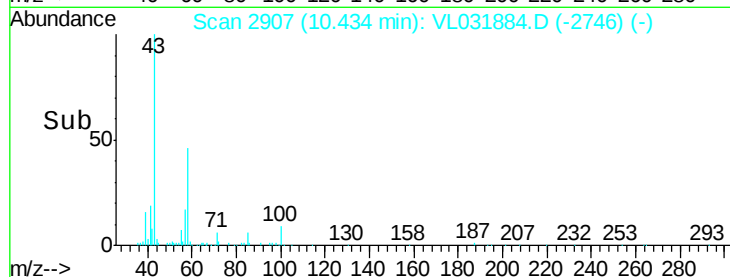
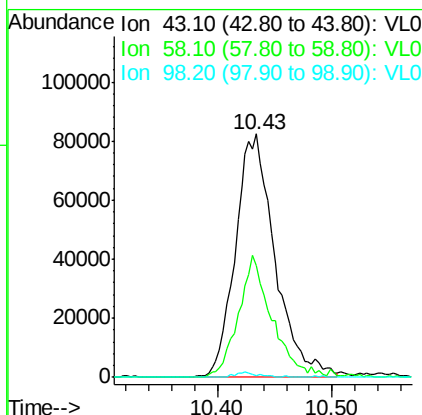
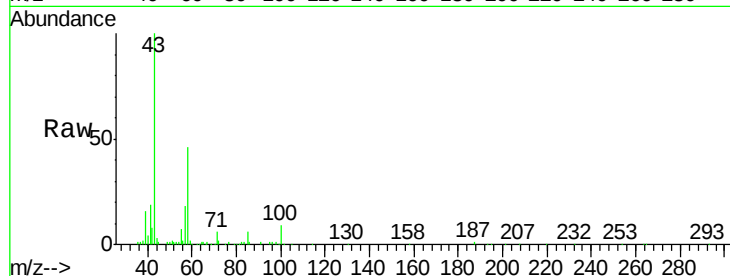
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	43	Resp:	196600
Ion Ratio	Lower	Upper	
43	100		
58	0.0	38.5	57.7#
98	1.4	0.2	0.4#

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#52

Tetrachloroethene

Concen: 0.97 ppbv

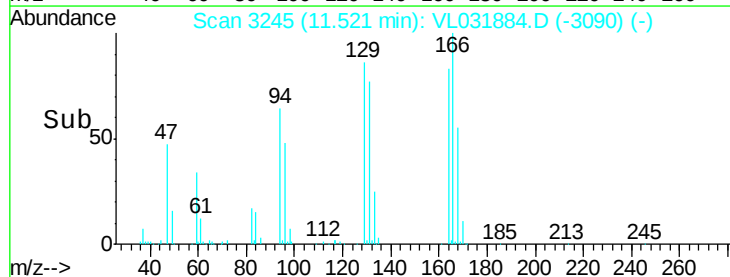
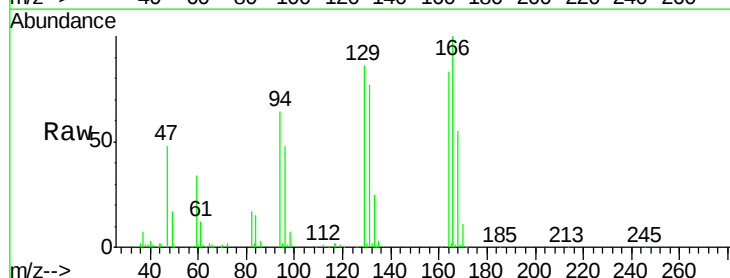
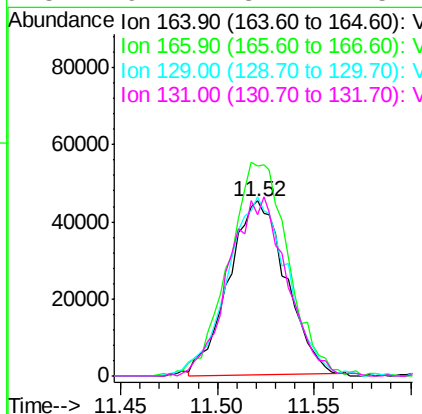
RT: 11.52 min Scan# 3245

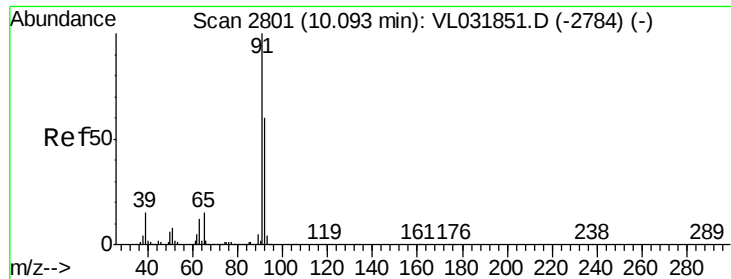
Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	164	Resp:	92823
Ion Ratio	Lower	Upper	
164	100		
166	117.8	98.2	147.4
129	102.7	86.5	129.7
131	91.7	82.2	123.2





#53

Toluene

Concen: 0.97 ppbv

RT: 10.09 min Scan# 2800

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 91 Resp: 264689

Ion Ratio Lower Upper

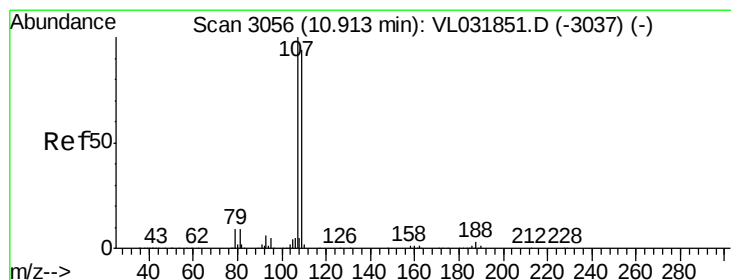
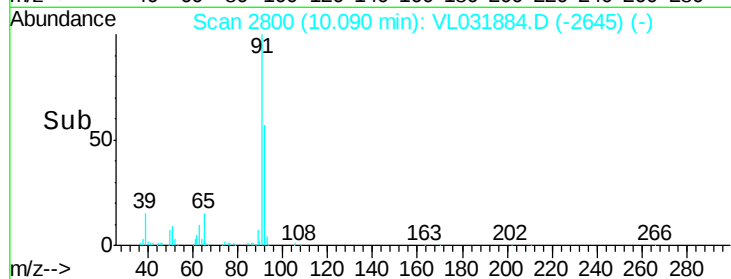
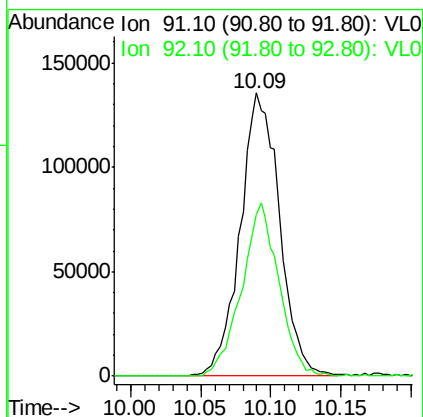
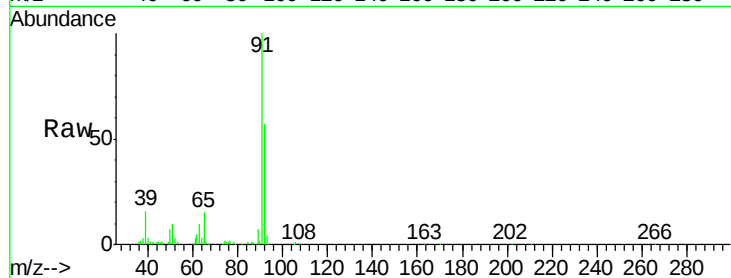
91 100

92 57.9 47.4 71.2

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#54

1,2-Dibromoethane

Concen: 1.01 ppbv

RT: 10.91 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VL031884.D

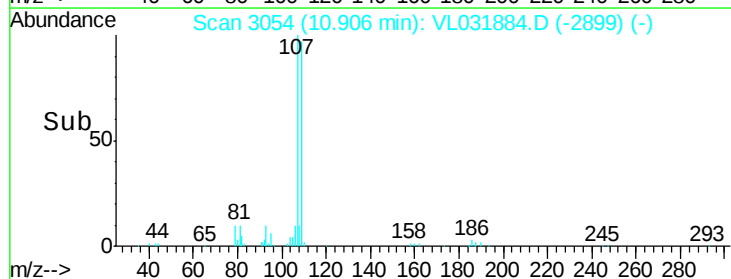
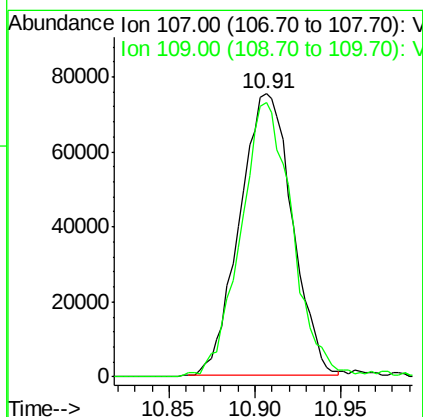
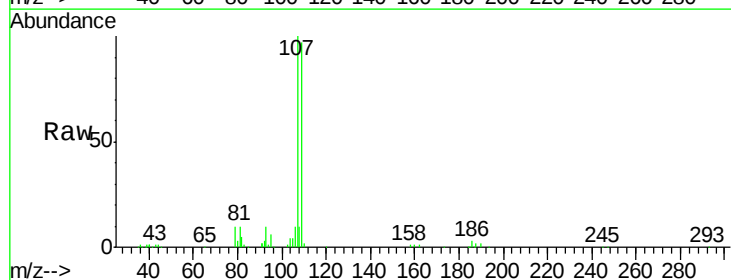
Acq: 19 Apr 2018 19:08

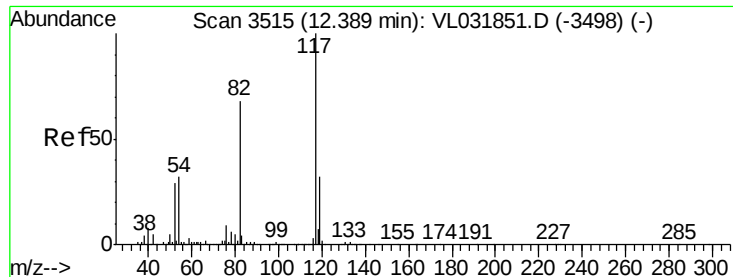
Tgt Ion: 107 Resp: 158996

Ion Ratio Lower Upper

107 100

109 96.1 74.6 112.0





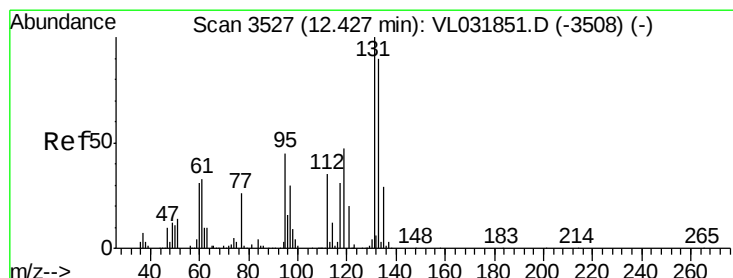
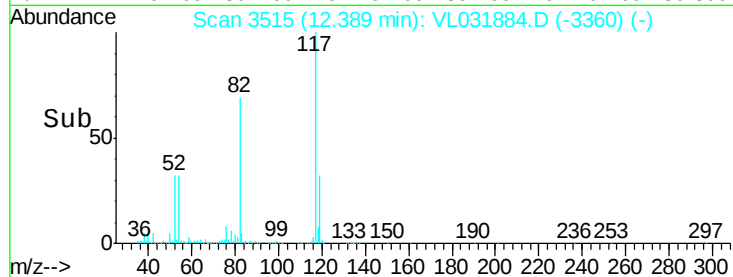
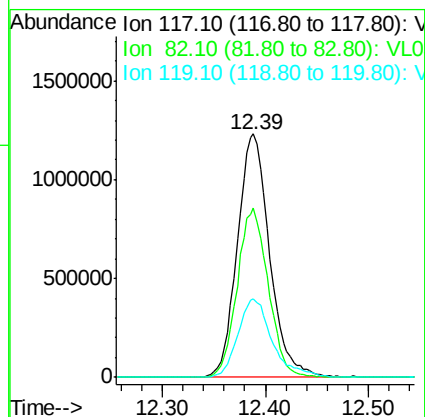
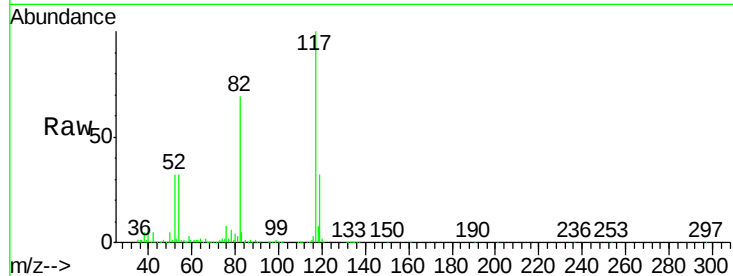
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.1	54.6	81.8
119	34.4	26.0	39.0

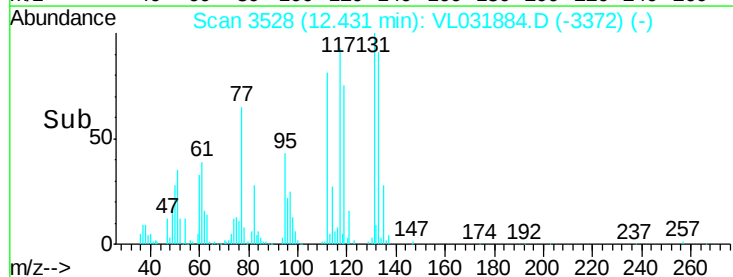
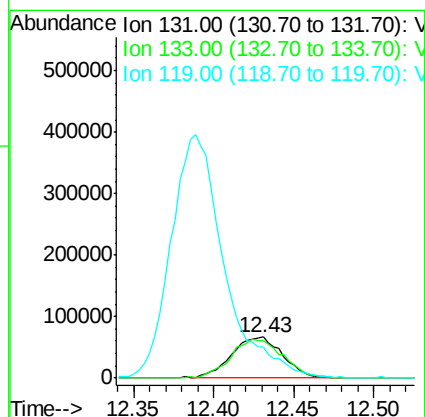
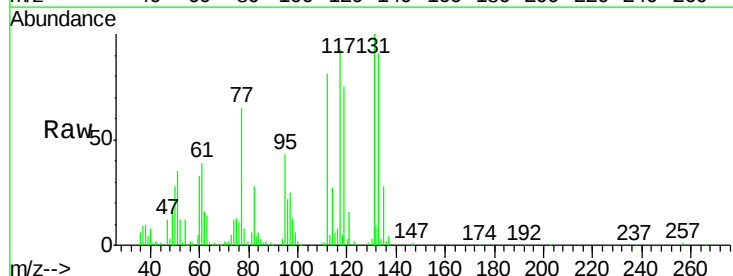
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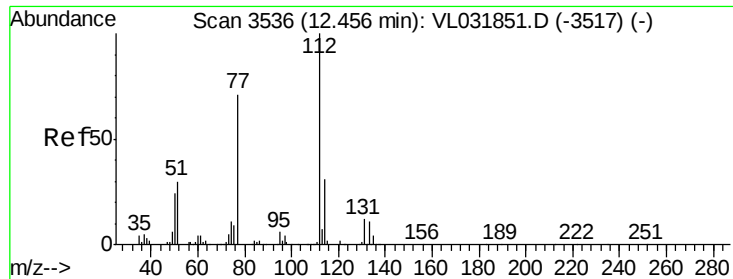
sam
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.15 ppbv
RT: 12.43 min Scan# 3528
Delta R.T. 0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.1	76.1	114.1
119	635.2	106.3	159.5#





#57

Chlorobenzene

Concen: 1.15 ppbv

RT: 12.45 min Scan# 3534

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

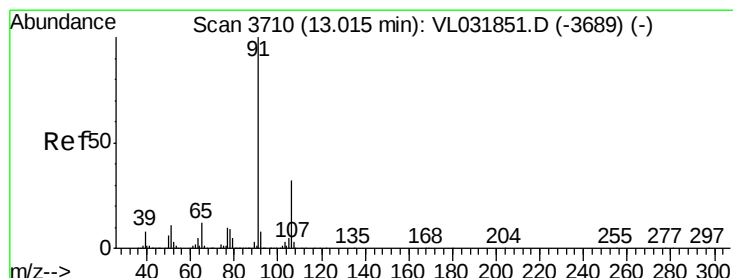
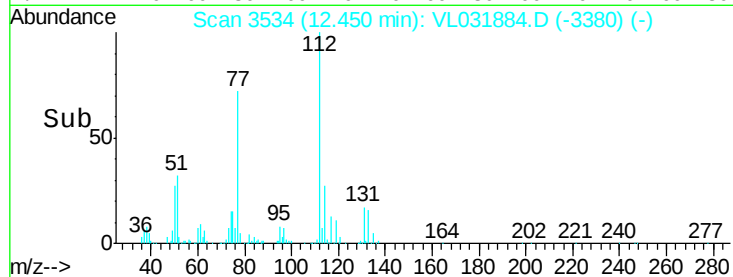
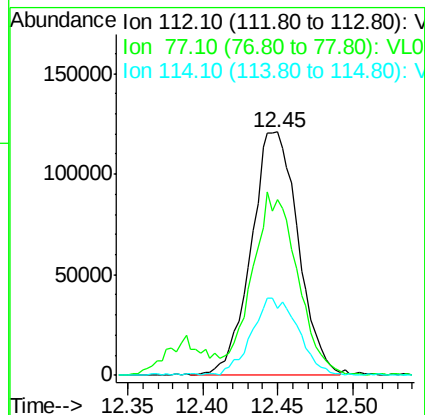
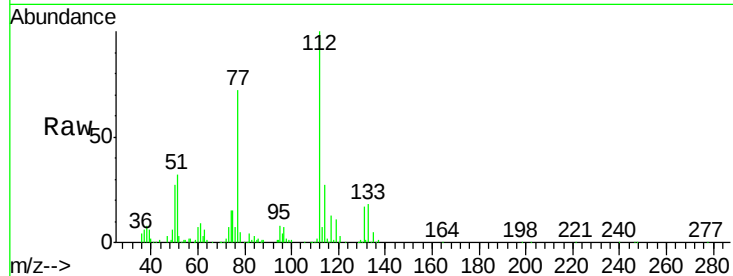
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	112	Resp:	262393
Ion Ratio	Lower	Upper	
112	100		
77	70.8	57.0	85.6
114	26.8	28.5	34.9#

Manual Integrations
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#58

Ethyl Benzene

Concen: 1.04 ppbv

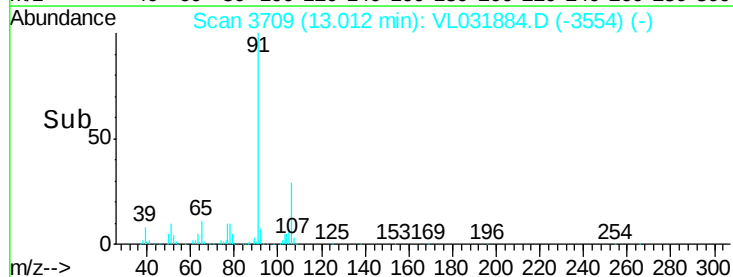
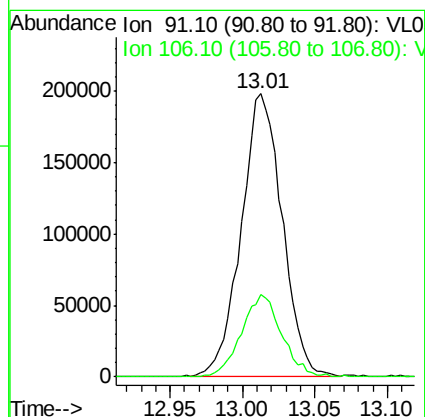
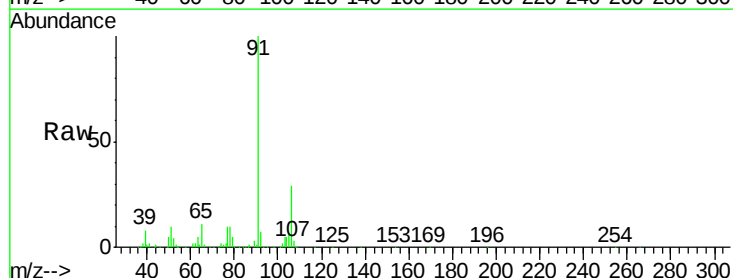
RT: 13.01 min Scan# 3709

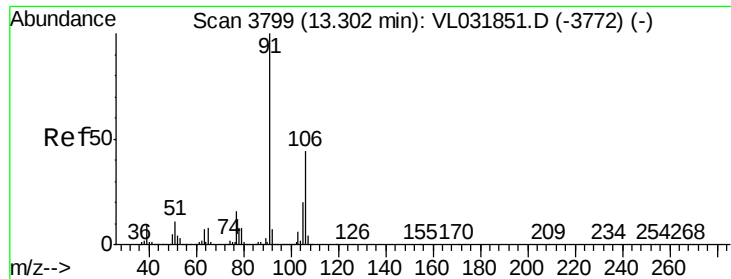
Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	91	Resp:	387945
Ion Ratio	Lower	Upper	
91	100		
106	29.2	23.8	35.6





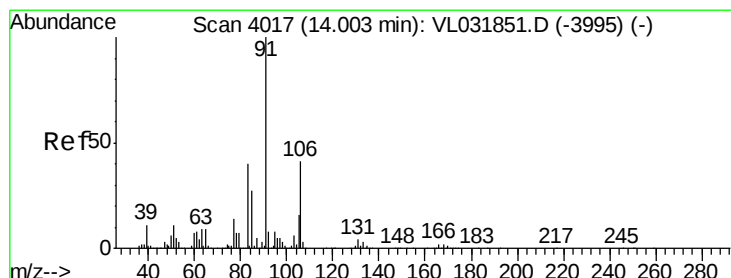
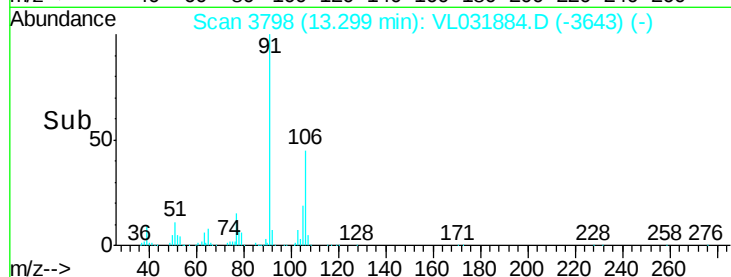
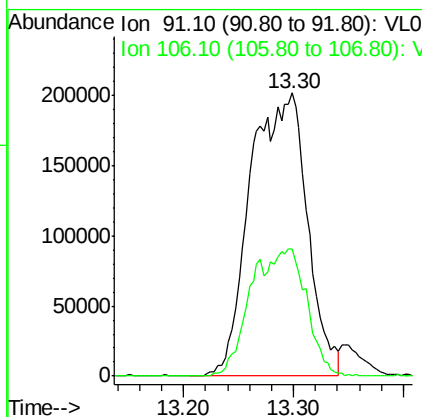
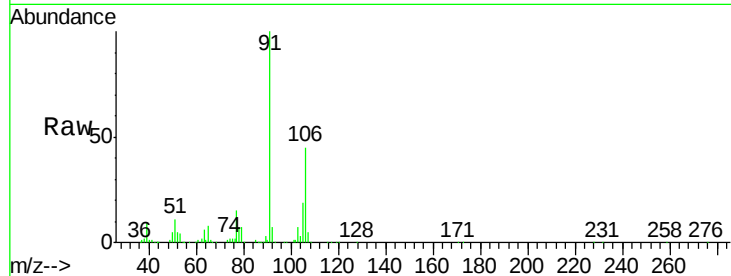
#59
m/p-Xylene
Concen: 2.25 ppbv m
RT: 13.30 min Scan# 3798
Delta R.T. -0.00 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2018

Tot Ion: 91 Resp: 726313
Ion Ratio Lower Upper
91 100
106 44.0 35.5 53.3

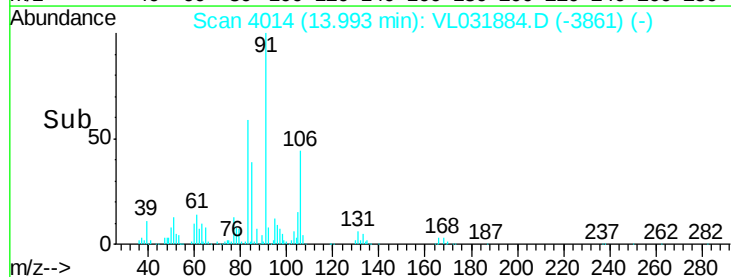
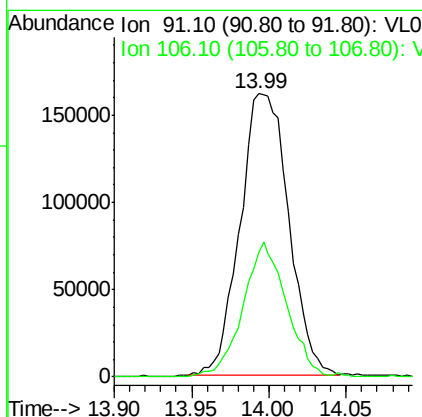
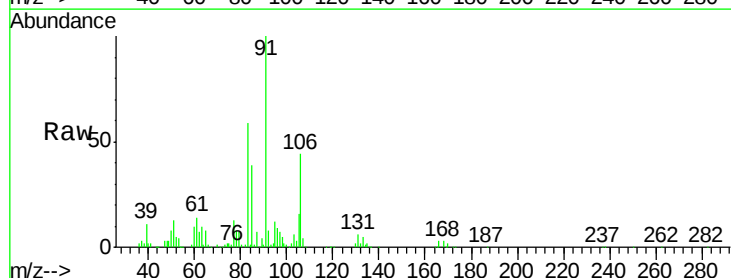
Manual Integrations
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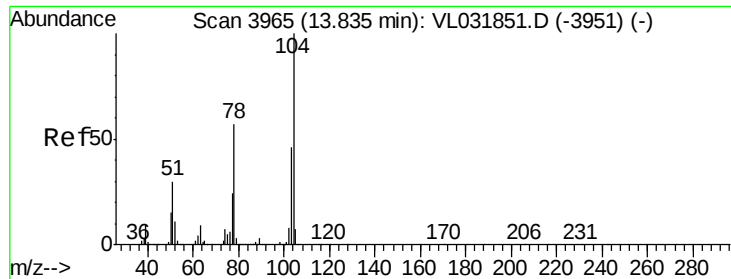
sam
4/23/2018 12:49:58 PM



#60
o-Xylene
Concen: 1.09 ppbv
RT: 13.99 min Scan# 4014
Delta R.T. -0.01 min
Lab File: VL031884.D
Acq: 19 Apr 2018 19:08

Tgt Ion: 91 Resp: 352348
Ion Ratio Lower Upper
91 100
106 43.5 21.3 63.9





#61

Stvrene

Concen: 0.78 ppbv m

RT: 13.83 min Scan# 3964

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

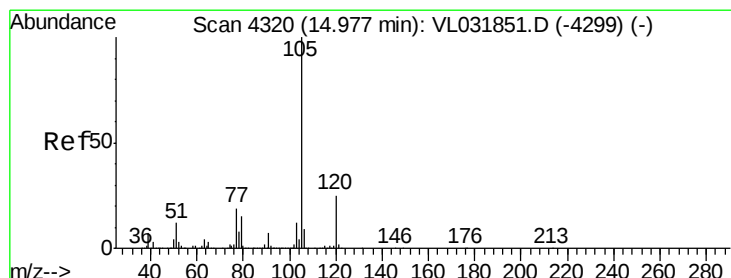
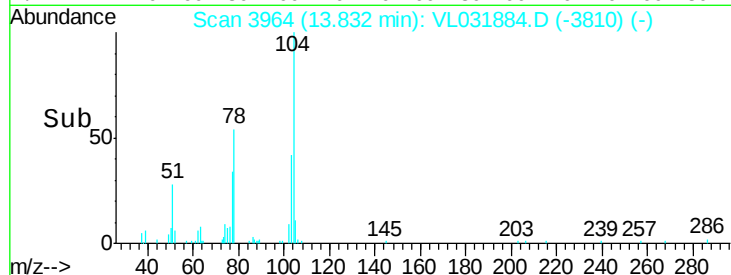
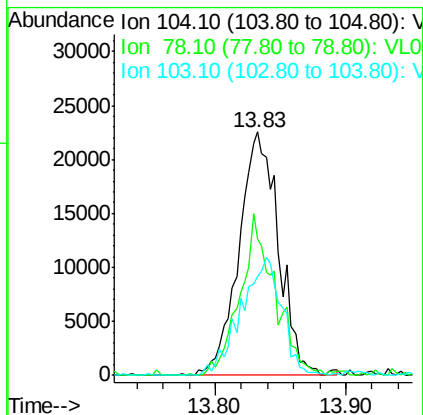
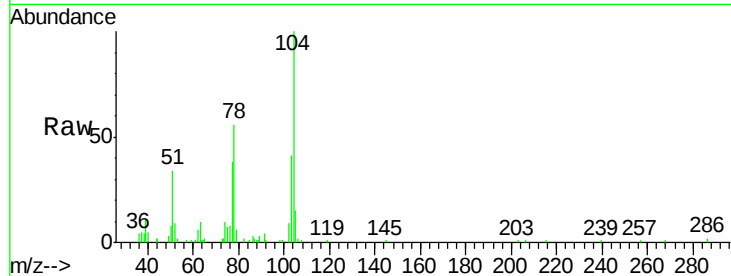
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	104	Resp:	47673
Ion Ratio	Lower	Upper	
104	100		
78	58.3	44.4	66.6
103	49.4	37.9	56.9

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#62

Isopropylbenzene

Concen: 1.11 ppbv

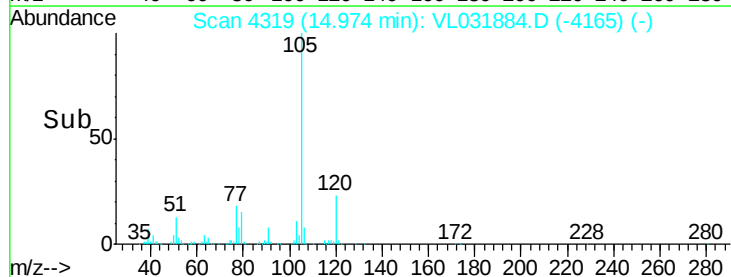
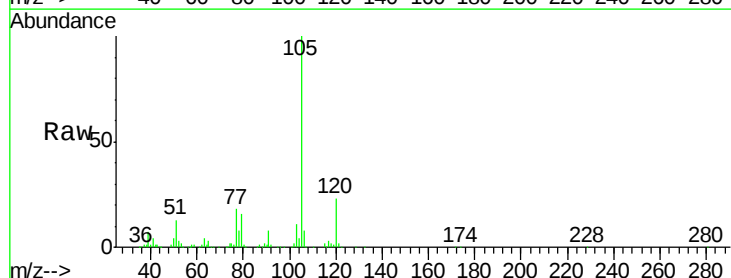
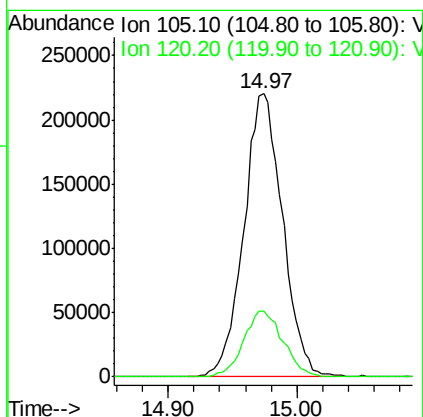
RT: 14.97 min Scan# 4319

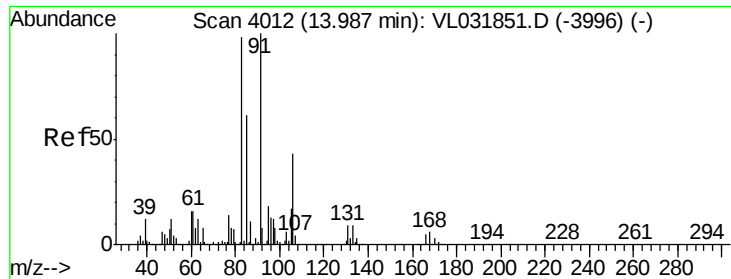
Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	105	Resp:	459718
Ion Ratio	Lower	Upper	
105	100		
120	23.9	19.4	29.2





#63

1,1,2,2-Tetrachloroethane

Concen: 1.12 ppbv

RT: 13.98 min Scan# 4011

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 83 Resp: 278768

Ion Ratio Lower Upper

83 100

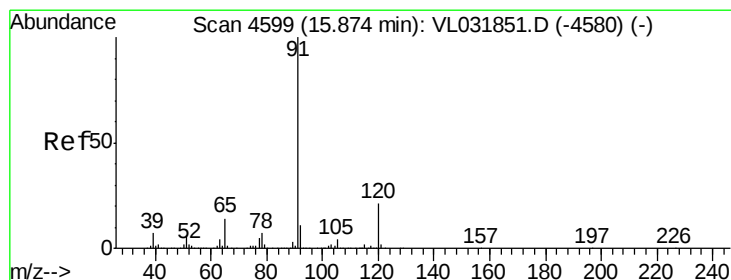
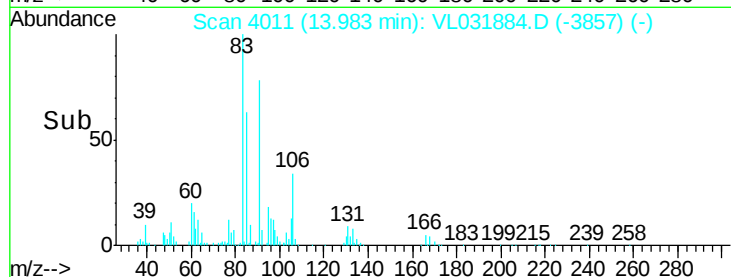
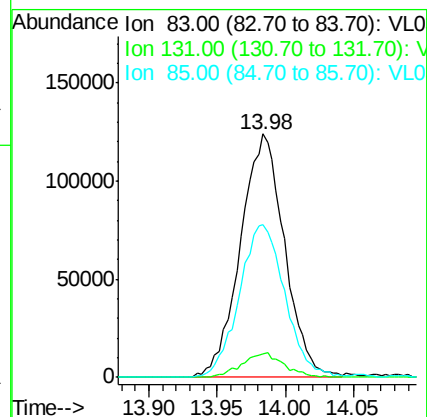
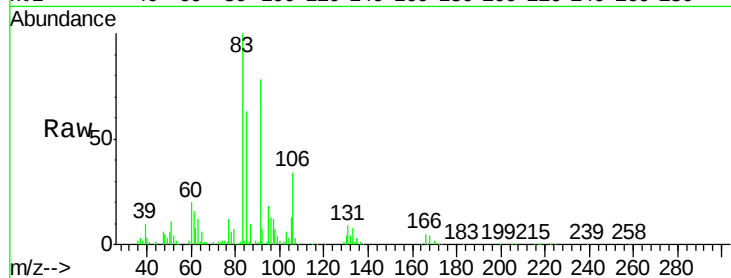
131 9.7 4.9 14.6

85 65.7 32.2 96.6

Manual Integrations
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#64

n-propylbenzene

Concen: 1.11 ppbv

RT: 15.87 min Scan# 4598

Delta R.T. -0.01 min

Lab File: VL031884.D

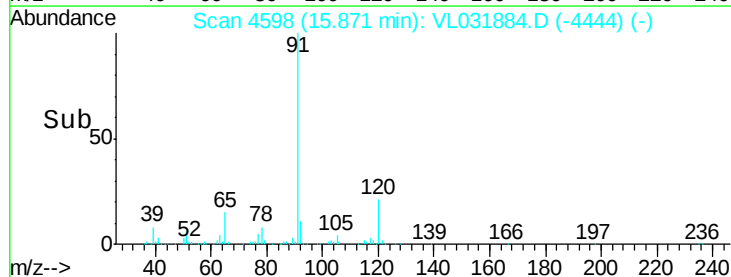
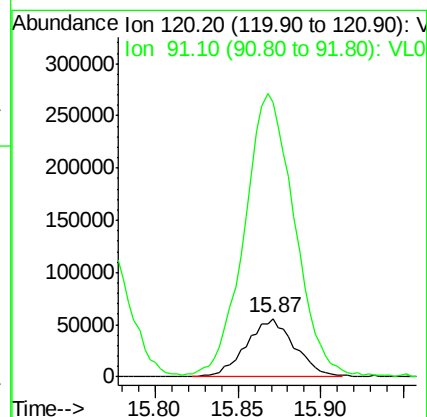
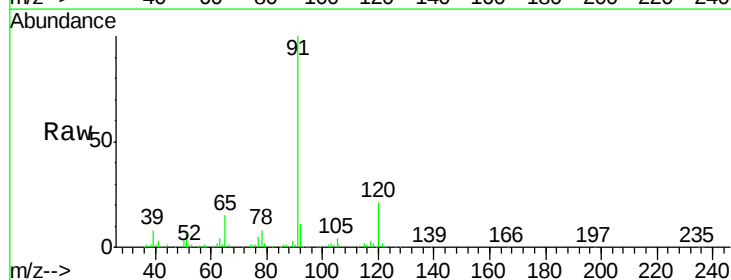
Acq: 19 Apr 2018 19:08

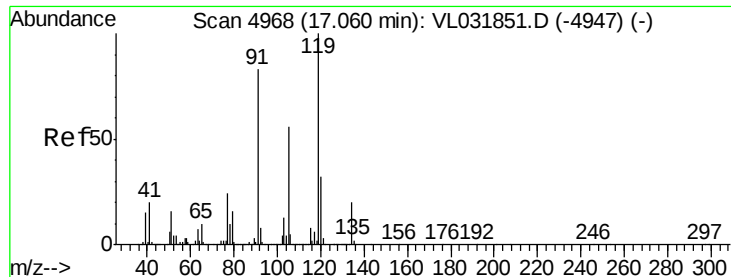
Tgt Ion: 120 Resp: 112275

Ion Ratio Lower Upper

120 100

91 506.2 393.7 590.5





#65

tert-Butylbenzene

Concen: 1.13 ppbv

RT: 17.05 min Scan# 4968

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

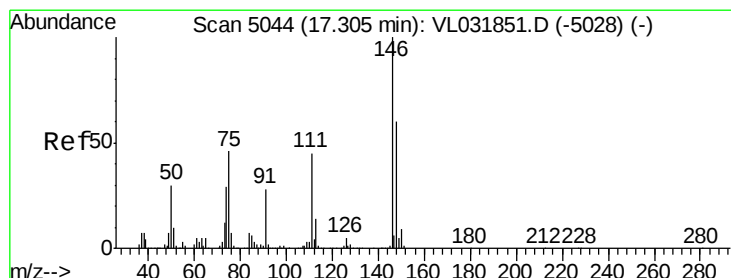
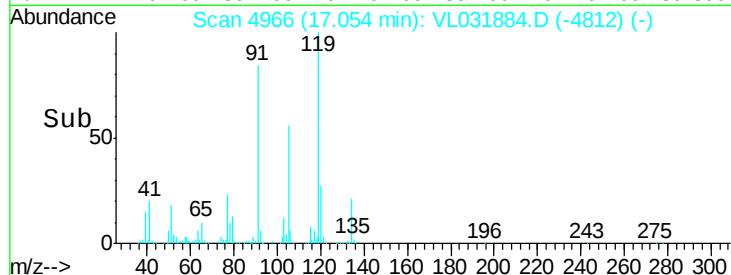
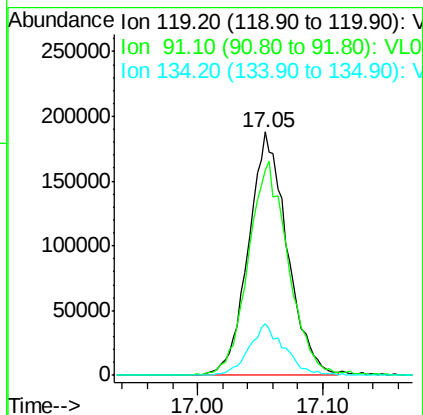
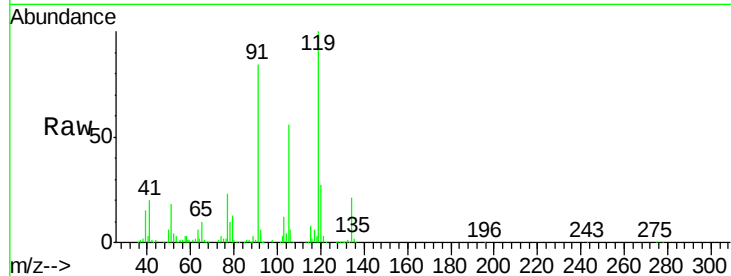
ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:	119	Resp:	402572
Ion Ratio	Lower	Upper	
119	100		
91	91.4	69.4	104.0
134	19.8	15.4	23.2

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.99 ppbv m

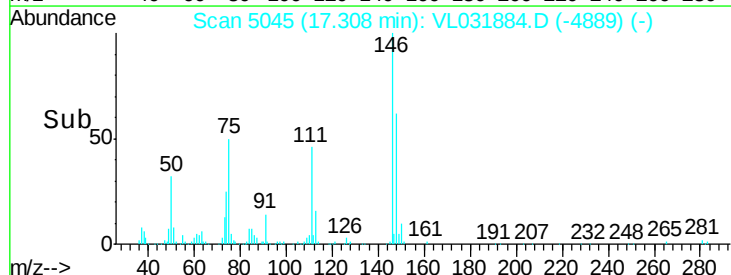
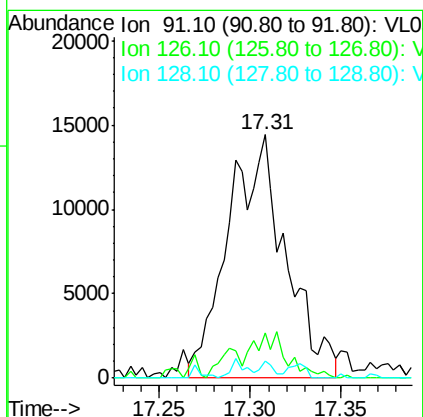
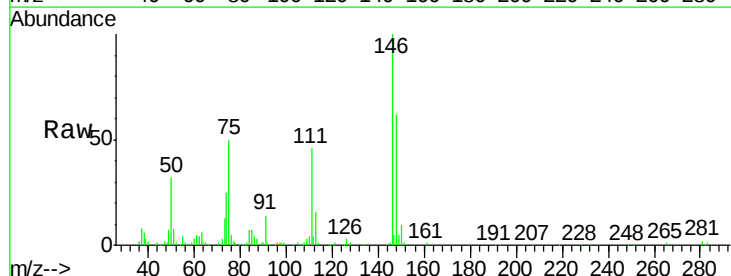
RT: 17.31 min Scan# 5045

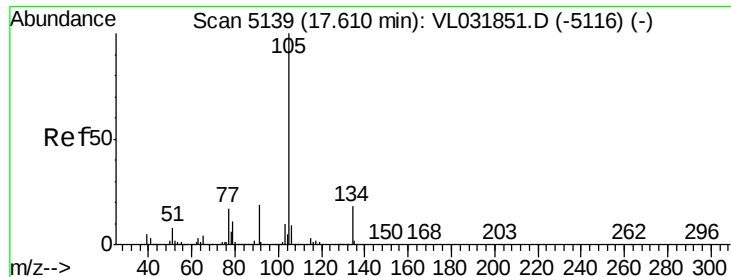
Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	91	Resp:	31775
Ion Ratio	Lower	Upper	
91	100		
126	0.0	12.6	19.0#
128	6.2	4.0	6.0#





#67

sec-Butylbenzene

Concen: 1.17 ppbv

RT: 17.61 min Scan# 5138

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 105 Resp: 602920

Ion Ratio Lower Upper

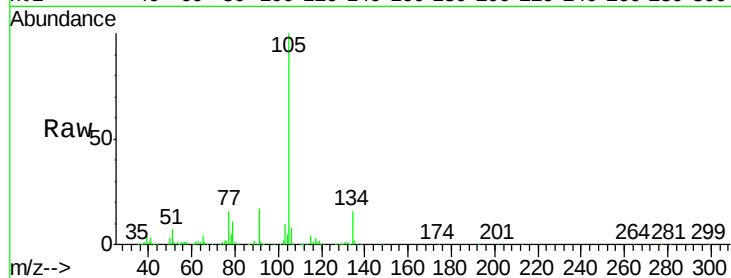
105 100

134 16.9 14.2 21.2

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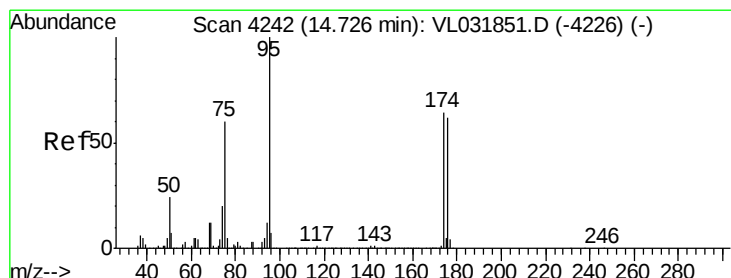
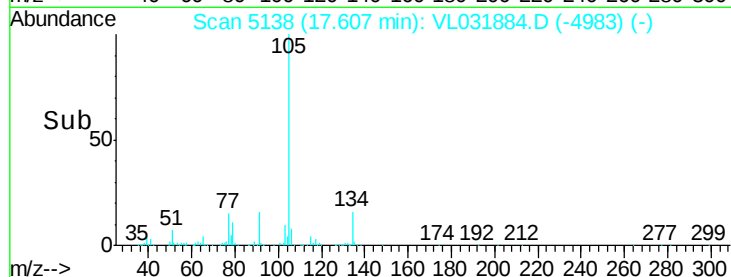
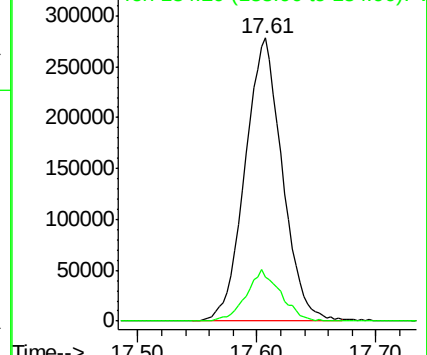
Sam

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.27 ppbv

RT: 14.72 min Scan# 4241

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

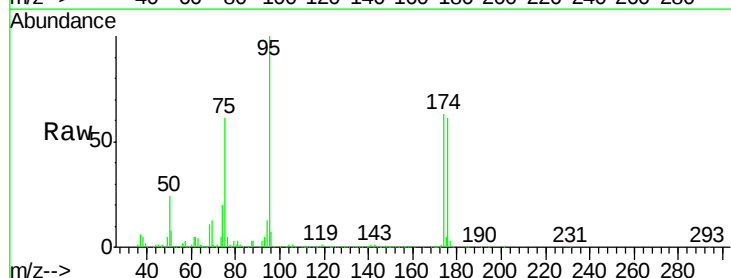
Tgt Ion: 95 Resp: 2211823

Ion Ratio Lower Upper

95 100

174 65.0 52.3 78.5

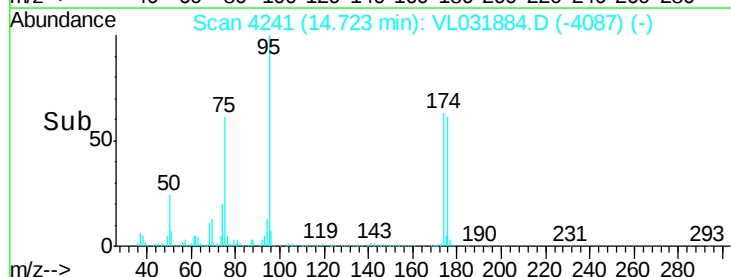
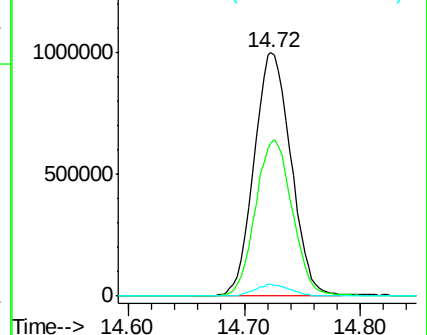
175 4.7 3.9 5.9

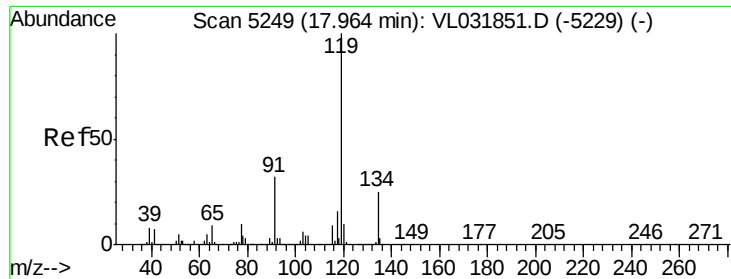


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





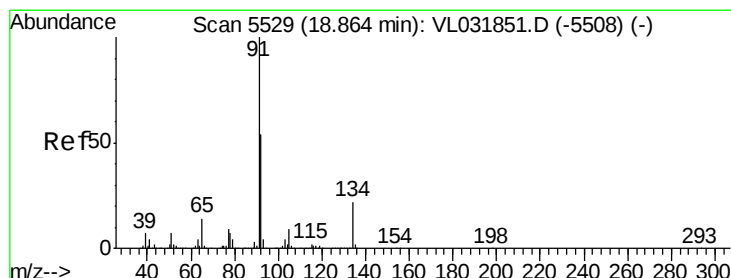
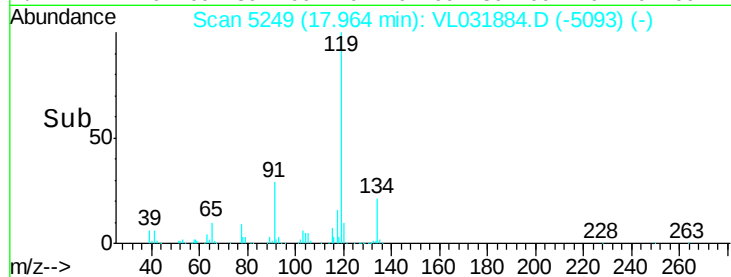
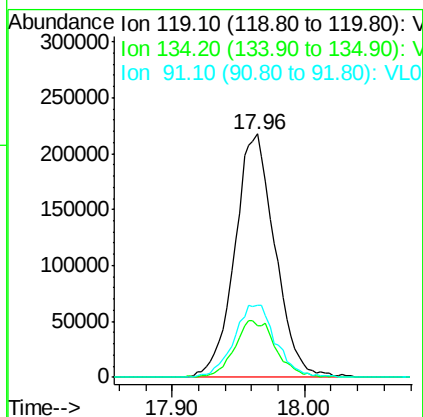
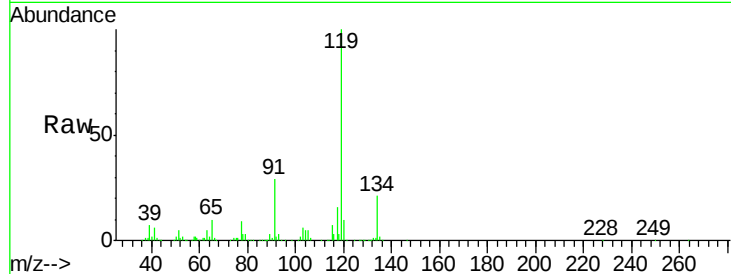
#69
 p-Isopropyltoluene
 Concen: 1.14 ppbv
 RT: 17.96 min Scan# 5249
 Delta R.T. 0.00 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	453216		
134	24.3		20.0	30.0
91	31.6		24.9	37.3

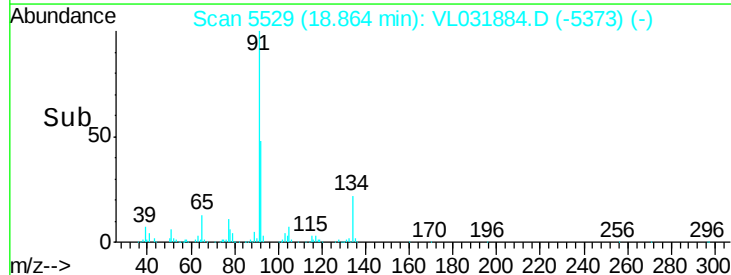
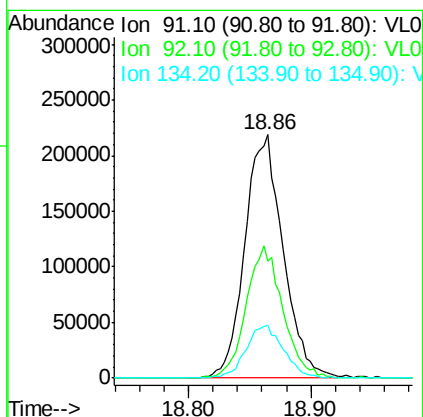
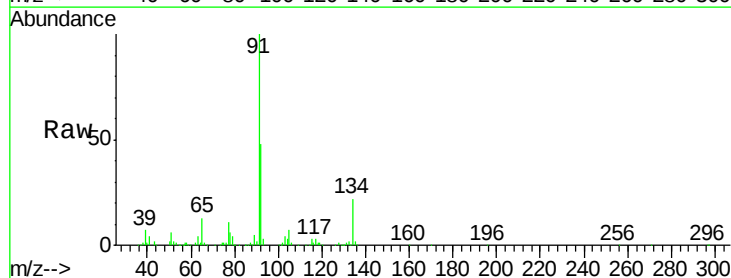
Manual Integrations
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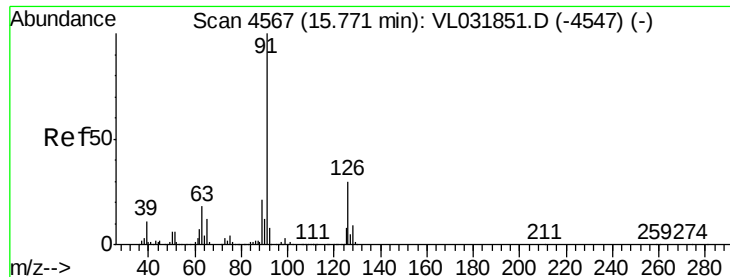
sam
 4/23/2018 12:49:58 PM



#70
 n-Butylbenzene
 Concen: 1.14 ppbv
 RT: 18.86 min Scan# 5529
 Delta R.T. 0.00 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	473175		
92	51.8		42.2	63.4
134	21.5		17.4	26.0





#71

2-Chlorotoluene

Concen: 1.06 ppbv

RT: 15.77 min Scan# 4566

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion: 91 Resp: 316873

Ion Ratio Lower Upper

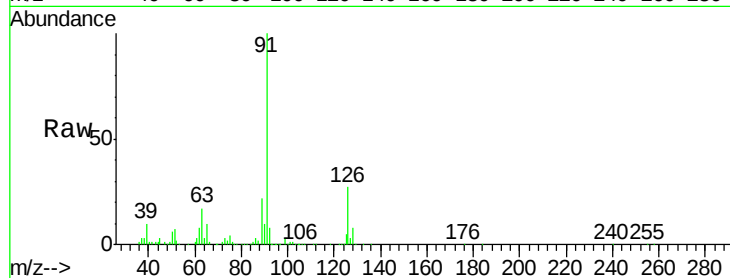
91 100

126 28.3 11.6 46.2

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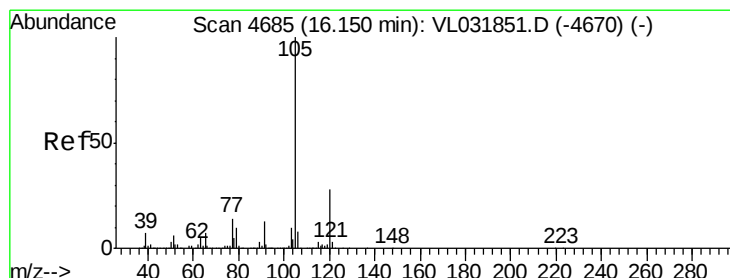
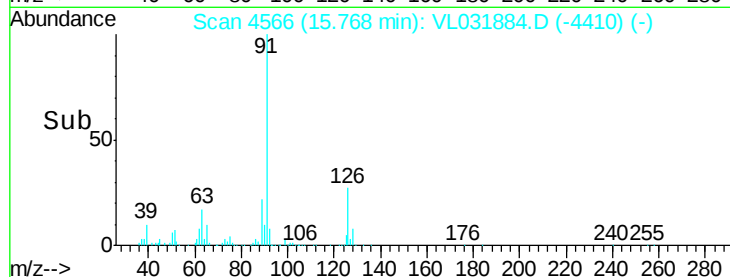
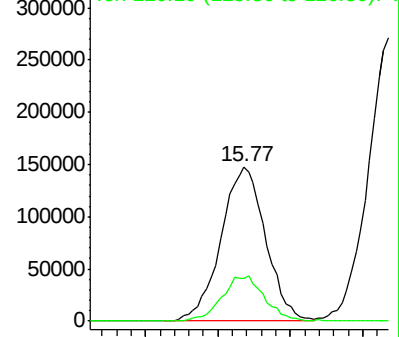
sam

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 1.02 ppbv

RT: 16.15 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion: 105 Resp: 337894

Ion Ratio Lower Upper

105 100

120 29.3 22.7 34.1

91 14.8 10.6 16.0

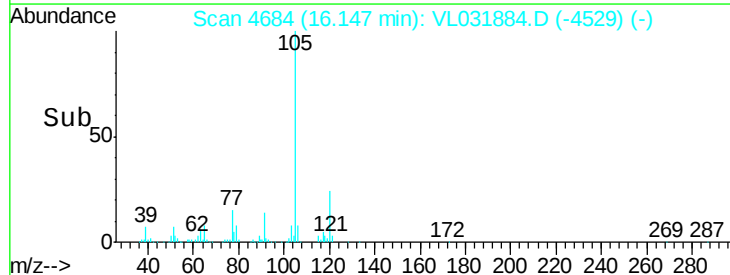
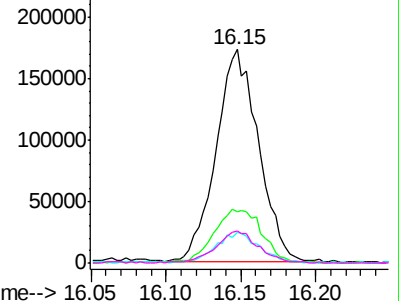
77 15.6 11.4 17.0

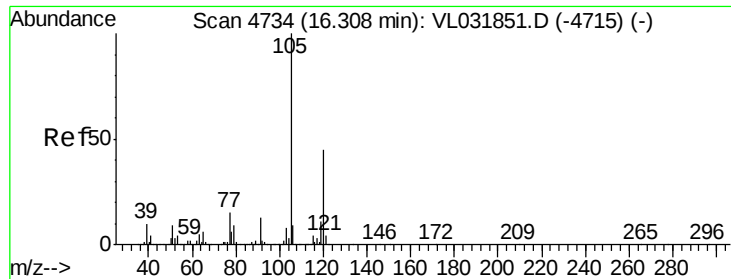
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 1.05 ppbv

RT: 16.30 min Scan# 4732

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2018

Tot Ion:105 Resp: 318345

Ion Ratio Lower Upper

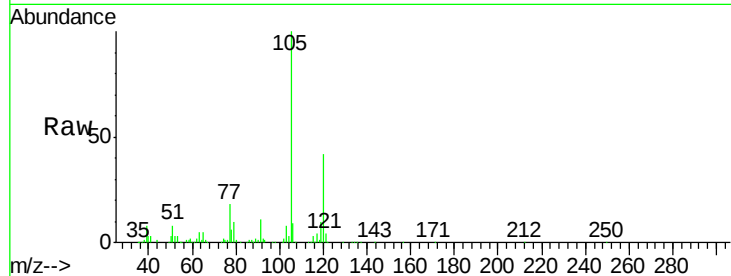
105 100

120 41.8 35.3 52.9

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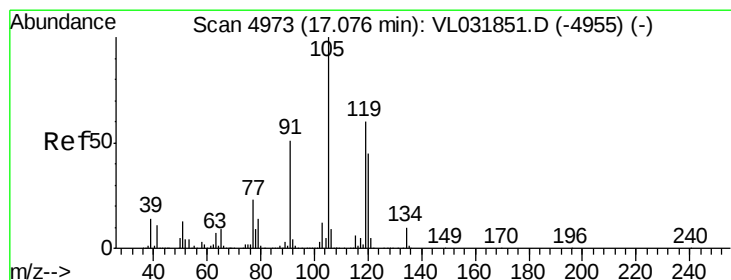
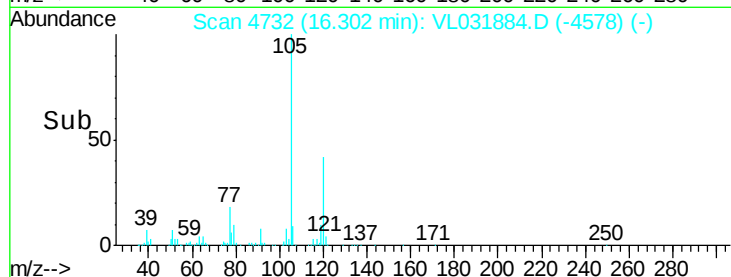
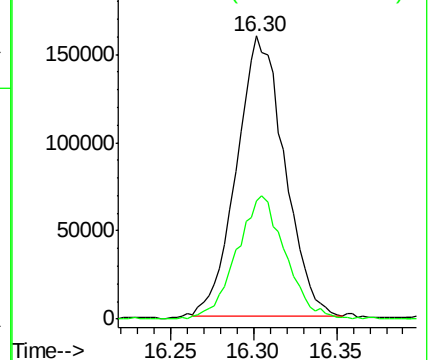
sam

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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: 1.14 ppbv

RT: 17.07 min Scan# 4970

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:105 Resp: 384699

Ion Ratio Lower Upper

105 100

120 44.5 37.0 55.4

91 65.9 43.0 64.4#

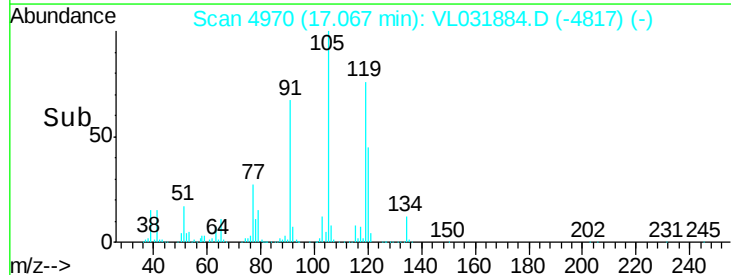
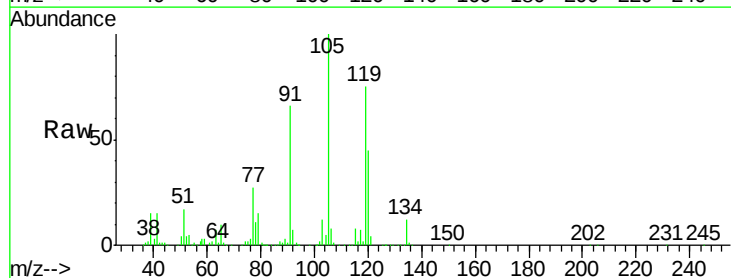
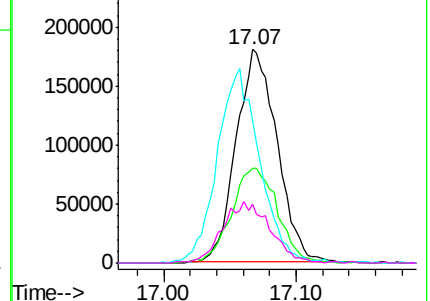
77 27.2 18.7 28.1

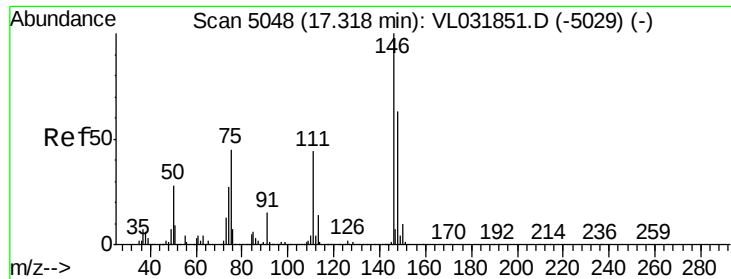
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 1.23 ppbv m

RT: 17.31 min Scan# 5046

Delta R.T. -0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

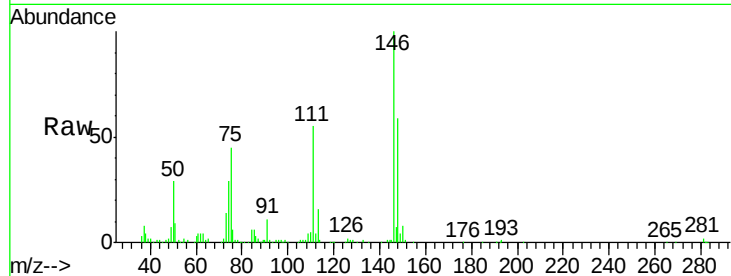
ClientSampleId :

LOQ-AIR-02-QT2-2018

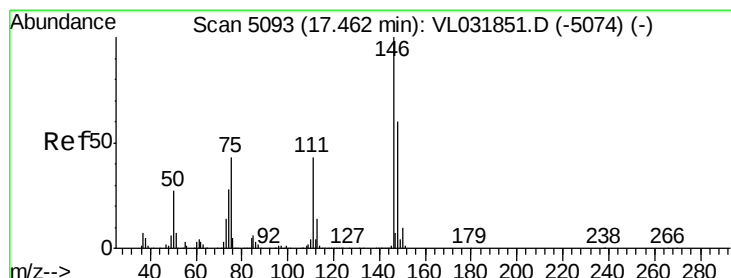
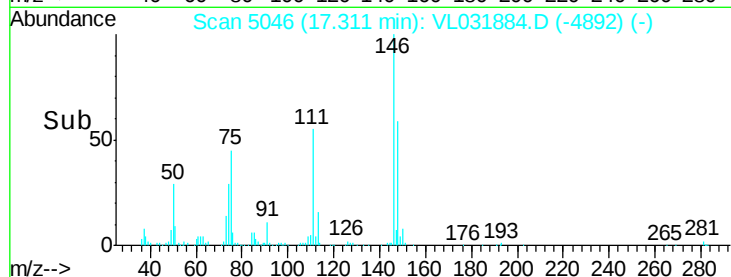
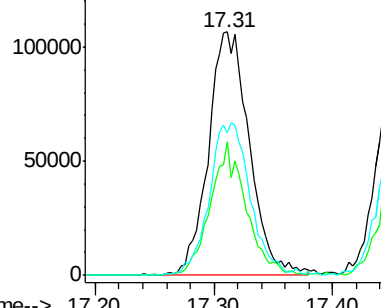
Tot Ion:	146	Resp:	253472
Ion Ratio		Lower	Upper
146	100		
111	48.0	23.8	71.4
148	0.0	32.0	96.2#

Manual Integrations
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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: 1.18 ppbv m

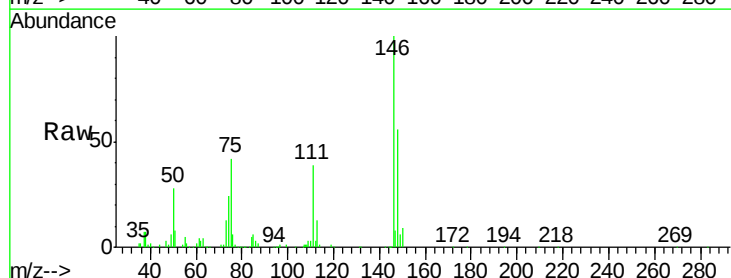
RT: 17.45 min Scan# 5090

Delta R.T. -0.01 min

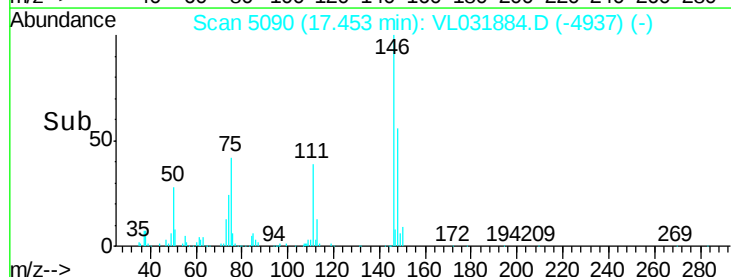
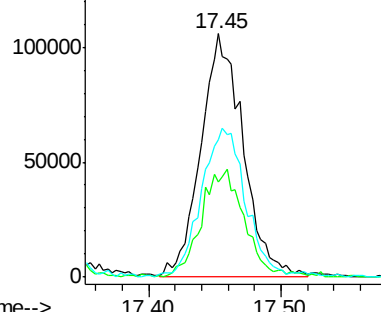
Lab File: VL031884.D

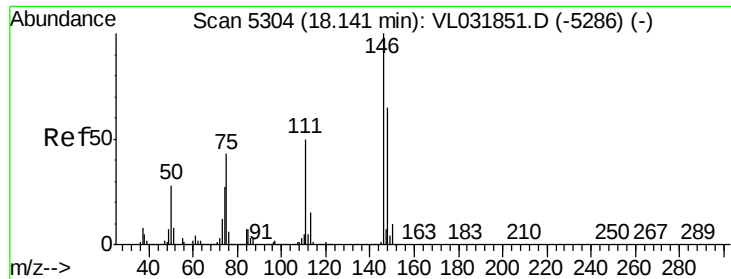
Acq: 19 Apr 2018 19:08

Tgt Ion:	146	Resp:	236441
Ion Ratio		Lower	Upper
146	100		
111	45.8	22.9	68.7
148	65.2	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





#77

1,2-Dichlorobenzene

Concen: 1.21 ppbv

RT: 18.14 min Scan# 5304

Delta R.T. -0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

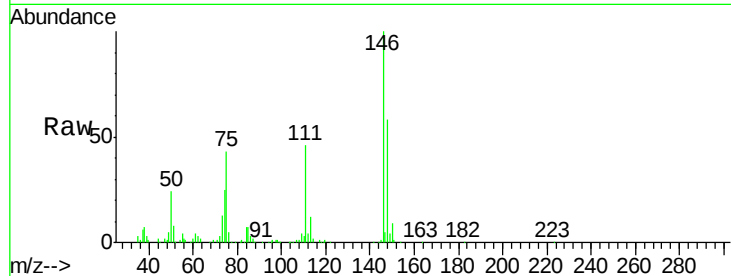
ClientSampleId :

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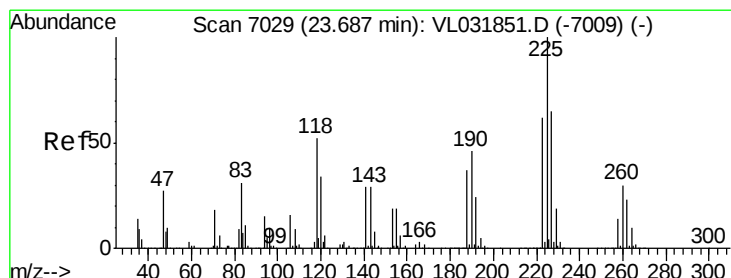
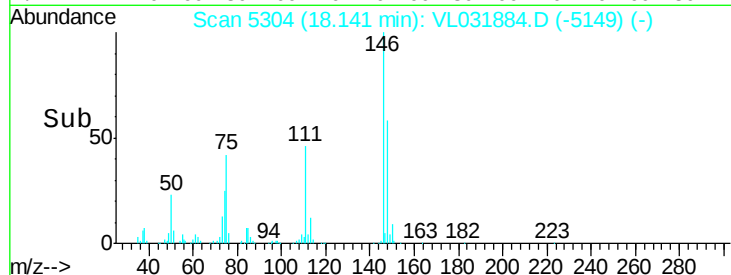
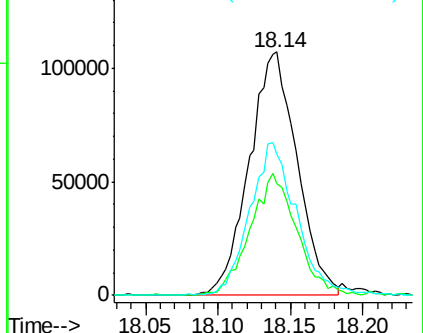
Tot Ion:	146	Resp:	245849
Ion Ratio	Lower	Upper	
146	100		
111	48.8	24.3	72.8
148	61.6	31.8	95.3

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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: 1.28 ppbv m

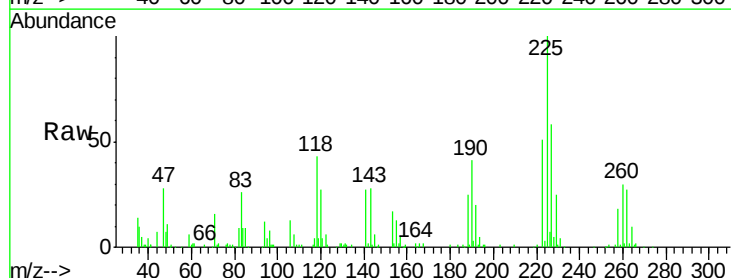
RT: 23.68 min Scan# 7027

Delta R.T. -0.00 min

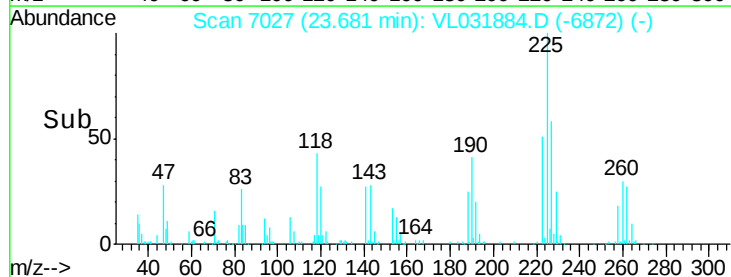
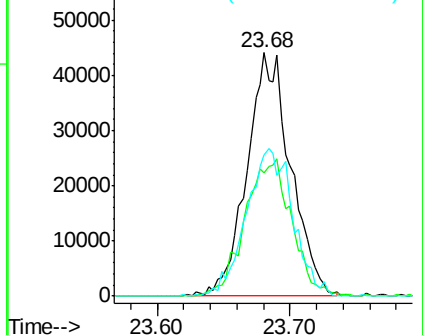
Lab File: VL031884.D

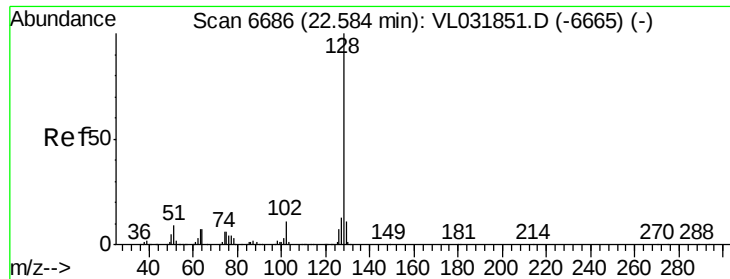
Acq: 19 Apr 2018 19:08

Tgt Ion:	225	Resp:	100468
Ion Ratio	Lower	Upper	
225	100		
223	0.0	50.6	76.0#
227	64.9	52.2	78.4



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: 0.90 ppbv

RT: 22.59 min Scan# 6689

Delta R.T. 0.00 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Instrument :

MSVOA_L

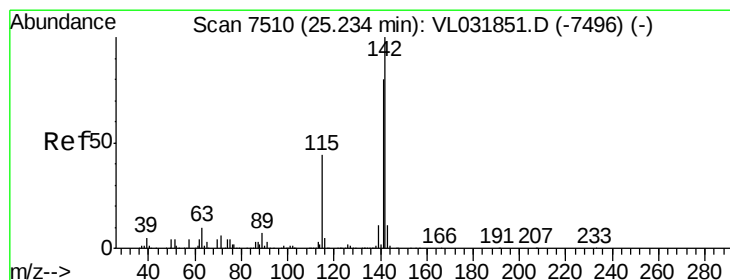
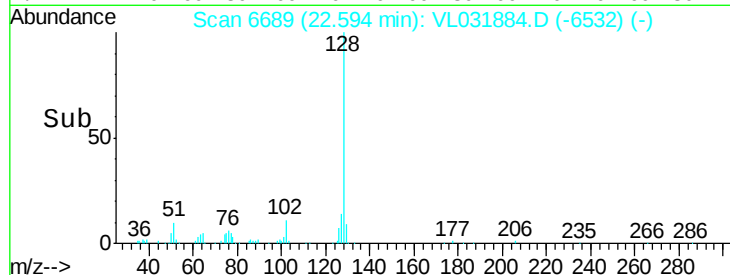
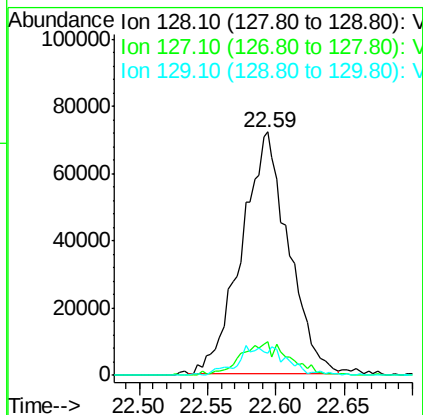
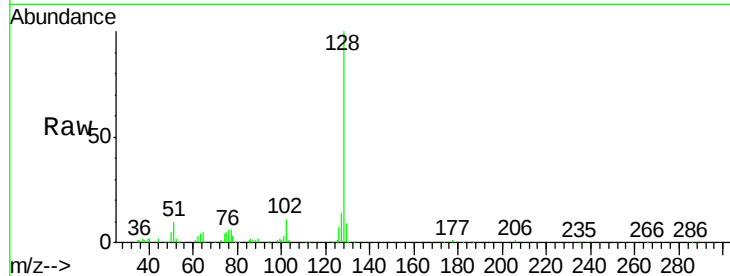
ClientSampleId :

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Tot Ion:	128	Resp:	171610
Ion Ratio		Lower	Upper
128	100		
127	13.7	10.2	15.4
129	9.4	9.4	14.2#

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#80

Naphthalene, 2-methyl-

Concen: 0.62 ppbv

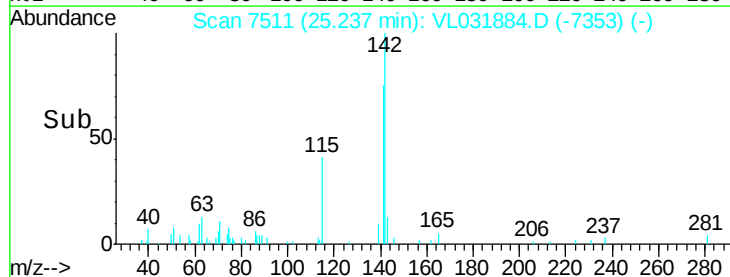
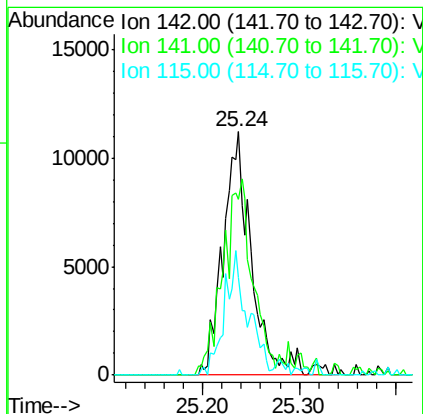
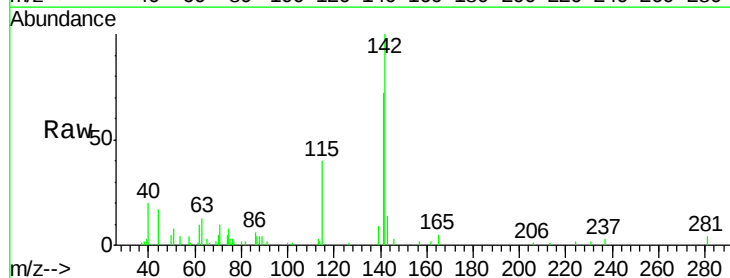
RT: 25.24 min Scan# 7511

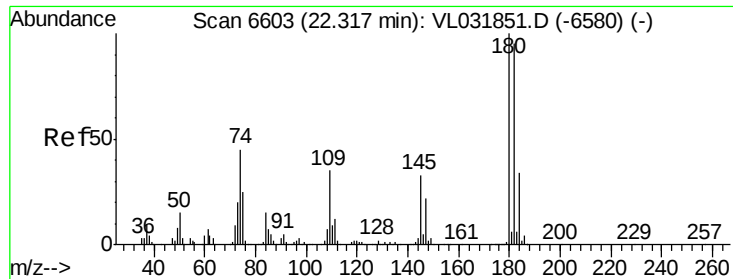
Delta R.T. 0.01 min

Lab File: VL031884.D

Acq: 19 Apr 2018 19:08

Tgt Ion:	142	Resp:	22818
Ion Ratio		Lower	Upper
142	100		
141	90.9	67.0	100.4
115	45.0	35.3	52.9





#81
 1,2,4-Trichlorobenzene
 Concen: 1.02 ppbv m
 RT: 22.31 min Scan# 6602
 Delta R.T. 0.00 min
 Lab File: VL031884.D
 Acq: 19 Apr 2018 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2018

Tot Ion	Ratio	Resp	Lower	Upper
180	100	107033		
182	99.7	76.3	114.5	
184	33.9	24.2	36.2	

Manual Integrations
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