

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031862.D
 Acq On : 12 Apr 2018 11:39
 Operator : SY/AP
 Sample : J2191-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:39 PM

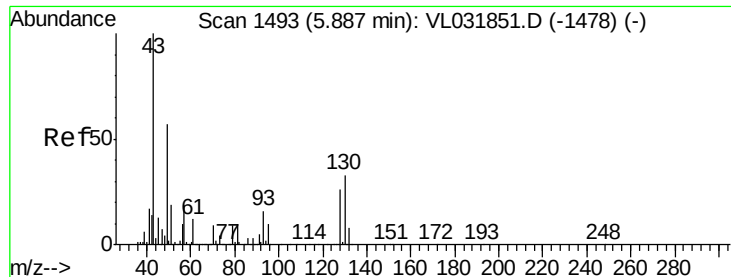
Quant Time: Apr 14 02:02:23 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1155096	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2412511	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2195650	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	1734604	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	642022	2.695	ppbv	97
3) Chlorodifluoromethane	3.10	51	31082m	0.231	ppbv	
4) Chloromethane	3.26	50	23188	0.338	ppbv #	85
5) Vinyl Chloride	3.39	62	12747	0.165	ppbv #	74
7) Chloroethane	3.70	64	9742	0.316	ppbv #	88
9) Propene	3.14	41	182215m	3.923	ppbv	
11) Trichlorofluoromethane	4.11	101	517191	2.214	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.67	101	42168	0.278	ppbv	99
13) Ethanol	3.75	45	1283749	81.429	ppbv	99
15) Acetone	4.02	43	329258m	1.852	ppbv	
20) Methylene Chloride	4.52	84	252095	3.893	ppbv	90
24) 1,1-Dichloroethane	5.21	63	441945	2.461	ppbv	98
26) Hexane	5.91	57	52575	0.407	ppbv #	66
29) Chloroform	5.97	83	144605	0.660	ppbv	97
30) Cyclohexane	7.40	84	31432m	0.340	ppbv	
31) cis-1,2-Dichloroethene	5.77	61	231669	1.978	ppbv	99
32) 1,1,1-Trichloroethane	6.75	97	931250	4.363	ppbv	99
35) Carbon Tetrachloride	7.27	117	14556m	0.069	ppbv	
38) Trichloroethene	8.10	130	1613214	18.315	ppbv	96

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218

Tot Ion: 49 Resp: 1155096

Ion Ratio Lower Upper

49 100

128 47.9 23.9 71.7

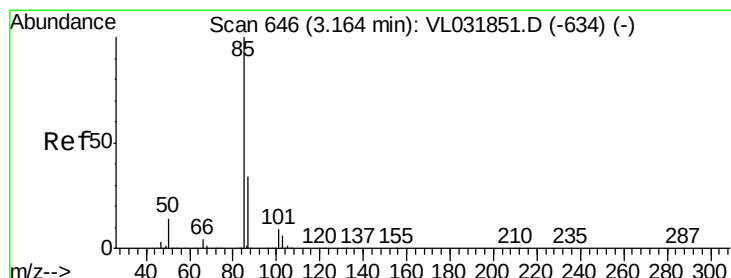
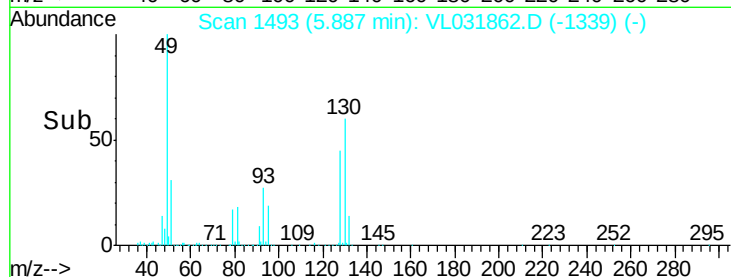
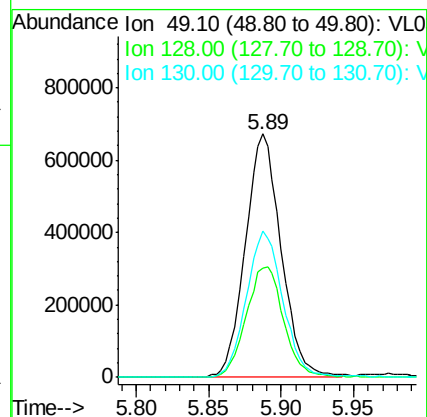
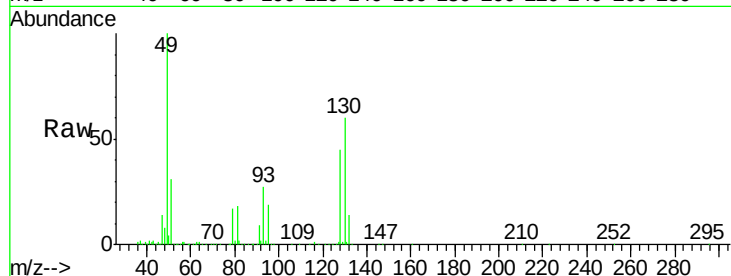
130 61.7 30.9 92.7

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 2.695 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031862.D

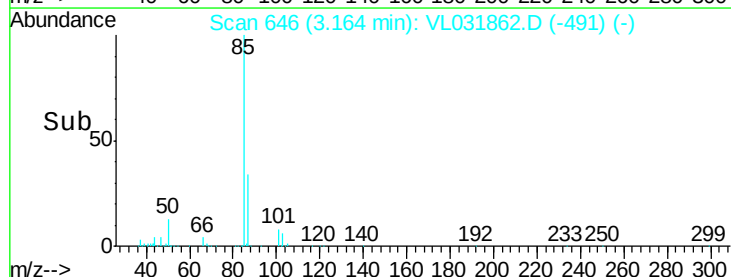
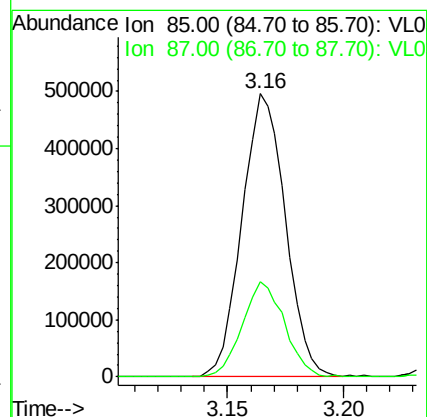
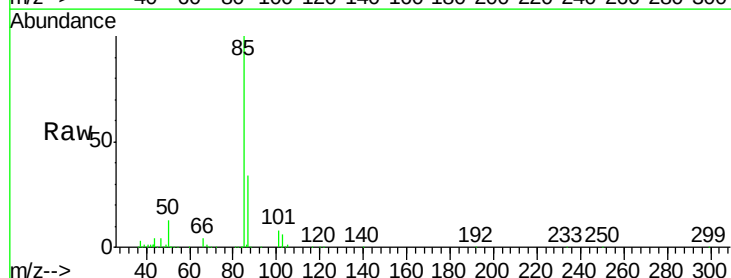
Acq: 12 Apr 2018 11:39

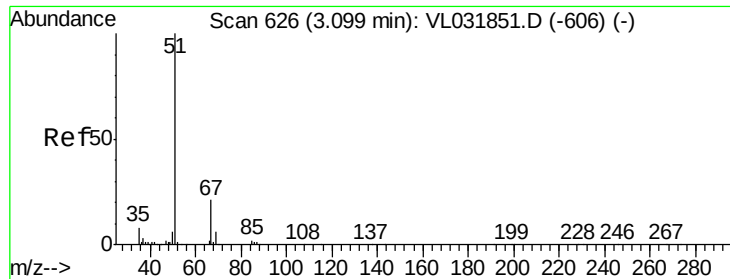
Tgt Ion: 85 Resp: 642022

Ion Ratio Lower Upper

85 100

87 33.8 25.9 38.9





#3

Chlorodifluoromethane

Concen: 0.231 ppbv

RT: 3.10 min Scan# 626

Delta R.T. -0.00 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Instrument :

MSVOA_L

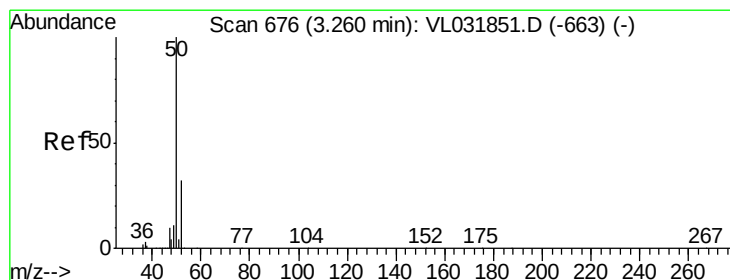
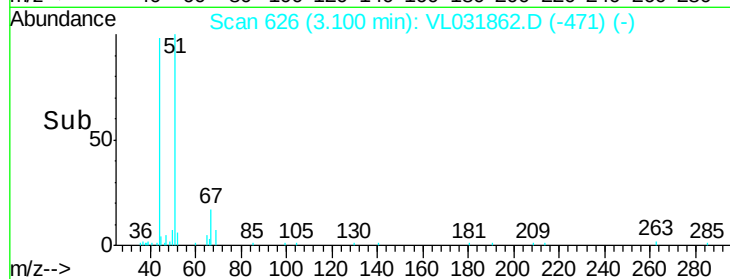
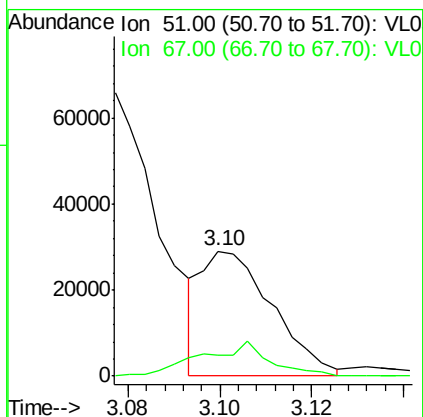
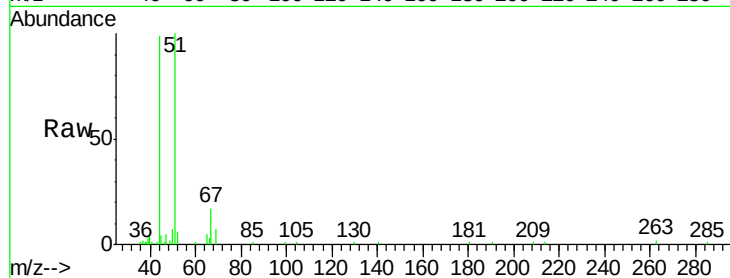
ClientSampleId :

GAC-EFF-040218

Tot Ion	51	Resp	31082
Ion Ratio	Lower	Upper	
51	100		
67	4.1	17.5	26.3#

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#4

Chloromethane

Concen: 0.338 ppbv

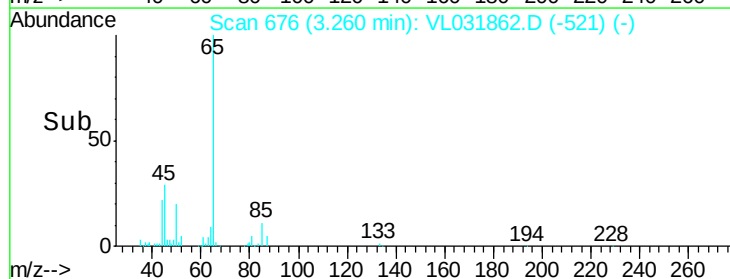
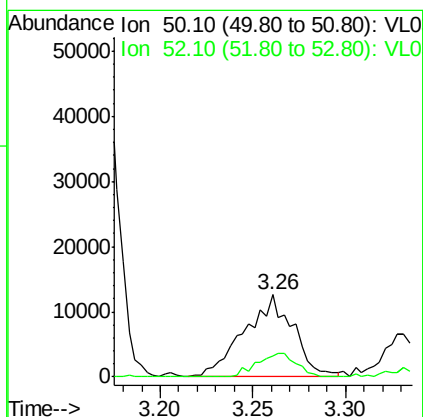
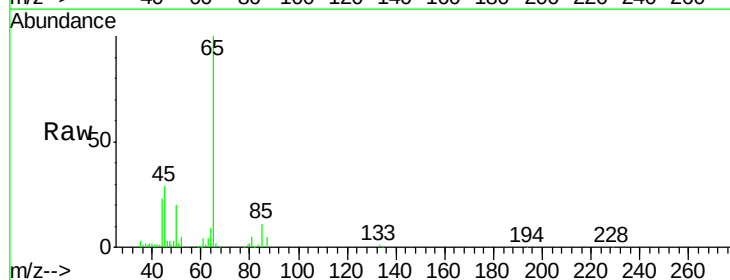
RT: 3.26 min Scan# 676

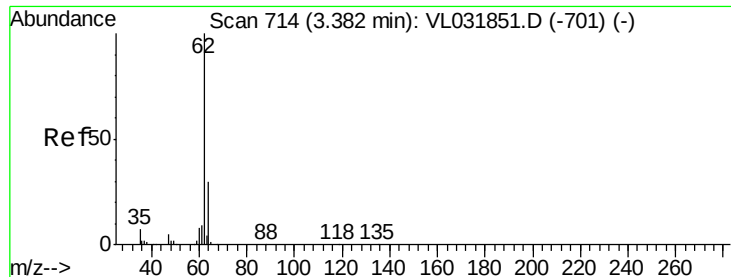
Delta R.T. -0.00 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Tgt Ion	50	Resp	23188
Ion Ratio	Lower	Upper	
50	100		
52	26.1	28.1	42.1#





#5

Vinyl Chloride

Concen: 0.165 ppbv

RT: 3.39 min Scan# 716

Delta R.T. 0.01 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218

Tot Ion: 62 Resp: 12747

Ion Ratio Lower Upper

62 100

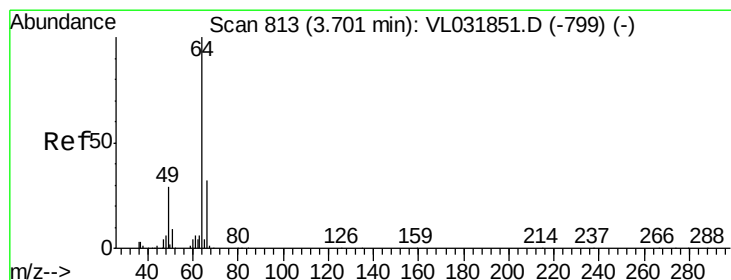
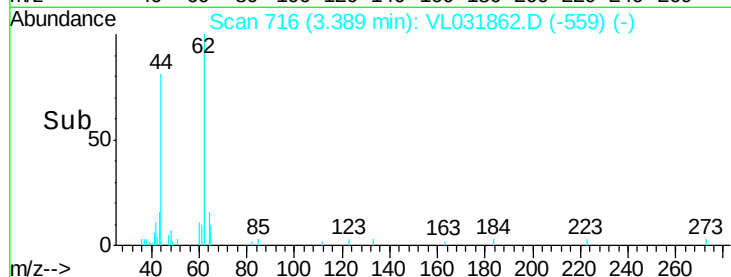
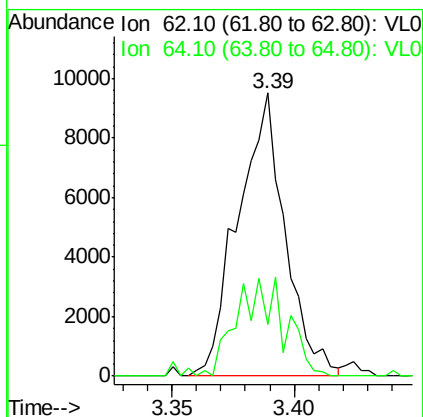
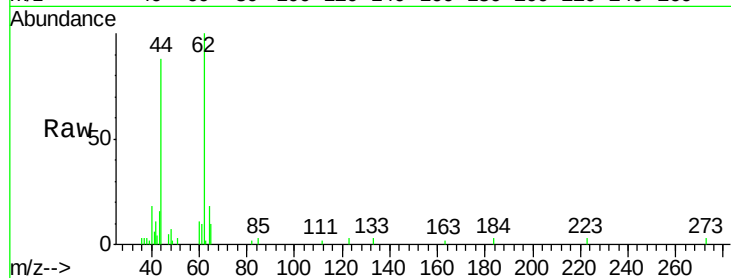
64 18.0 25.9 38.9#

Manual Integrations

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#7

Chloroethane

Concen: 0.316 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.01 min

Lab File: VL031862.D

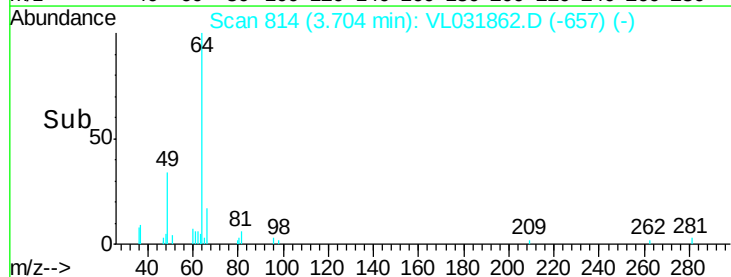
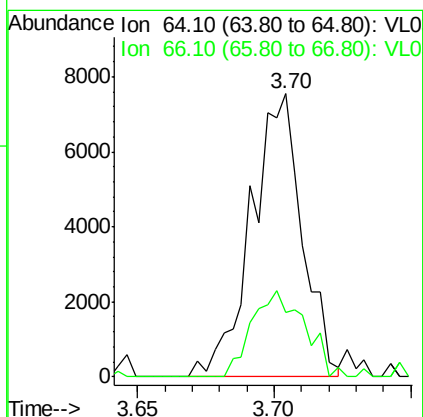
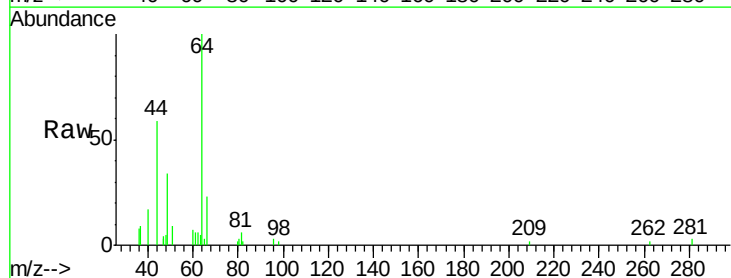
Acq: 12 Apr 2018 11:39

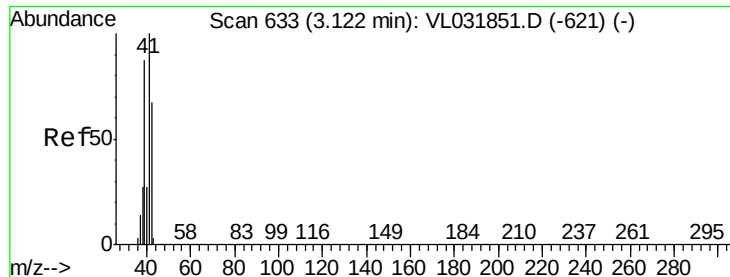
Tgt Ion: 64 Resp: 9742

Ion Ratio Lower Upper

64 100

66 22.8 23.4 35.0#





#9

Propene

Concen: 3.923 ppbv m

RT: 3.14 min Scan# 638

Delta R.T. 0.02 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218

Tot Ion: 41 Resp: 182215

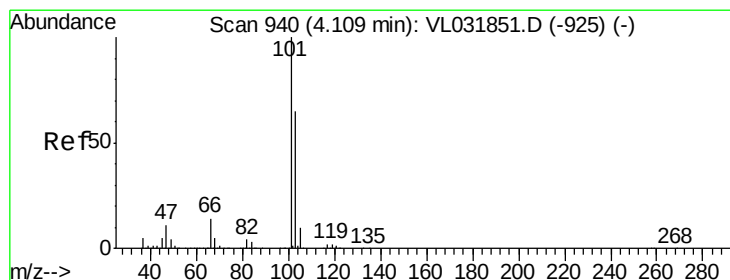
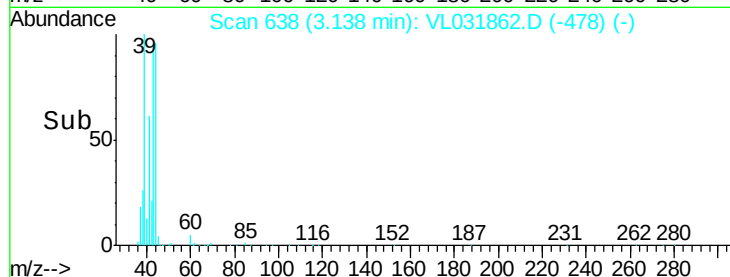
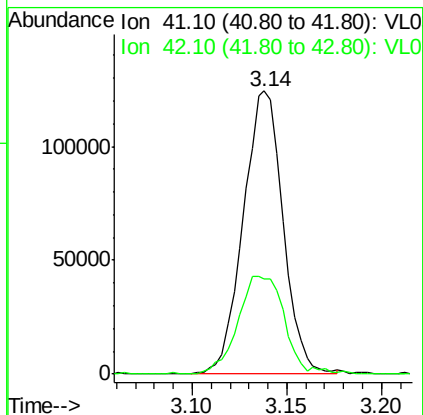
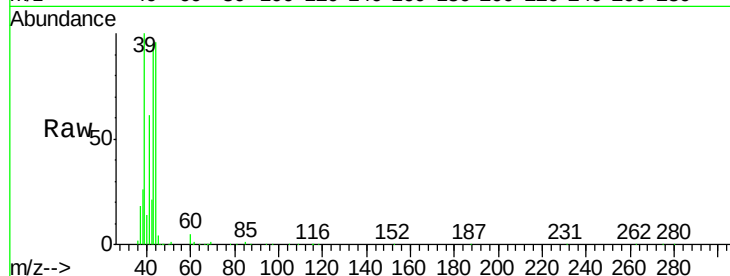
Ion Ratio Lower Upper

41 100

42 76.8 55.0 82.4

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#11

Trichlorofluoromethane

Concen: 2.214 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.00 min

Lab File: VL031862.D

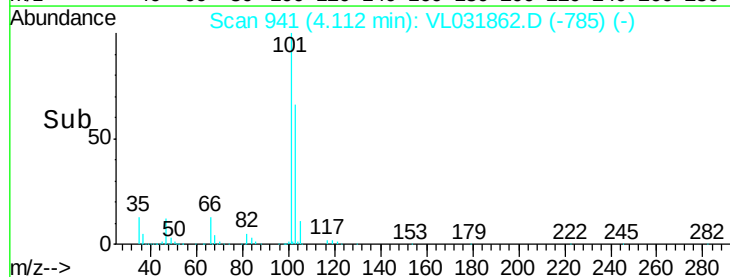
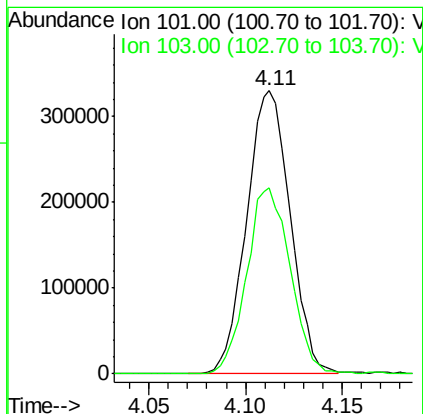
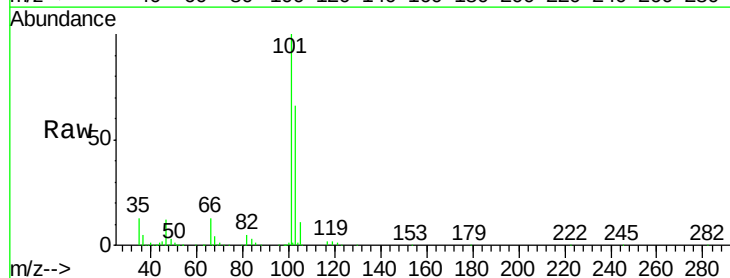
Acq: 12 Apr 2018 11:39

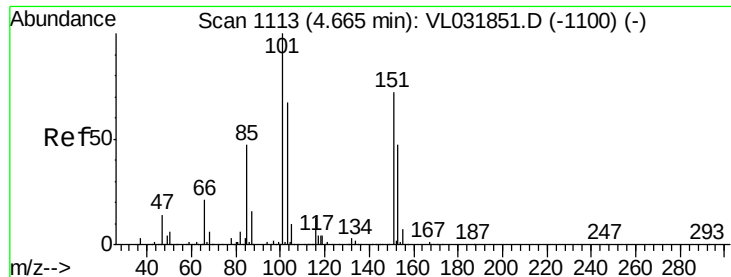
Tgt Ion: 101 Resp: 517191

Ion Ratio Lower Upper

101 100

103 65.7 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.278 ppbv

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218

Tot Ion:101 Resp: 42168

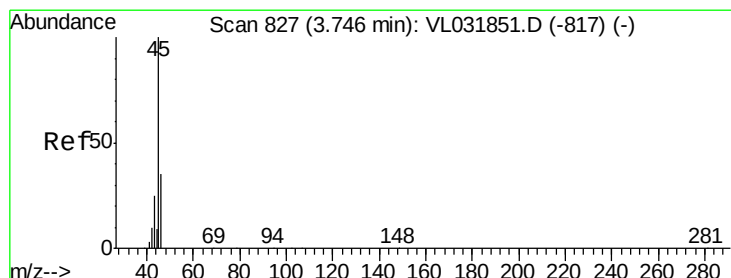
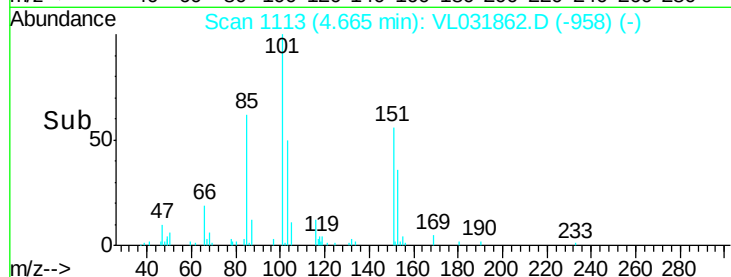
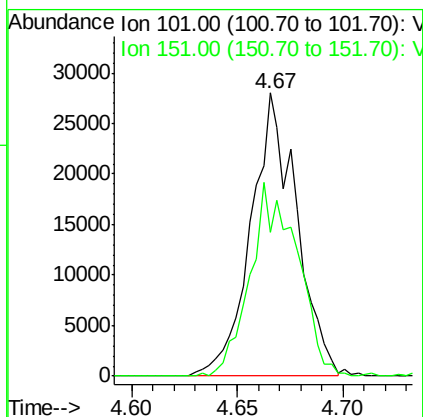
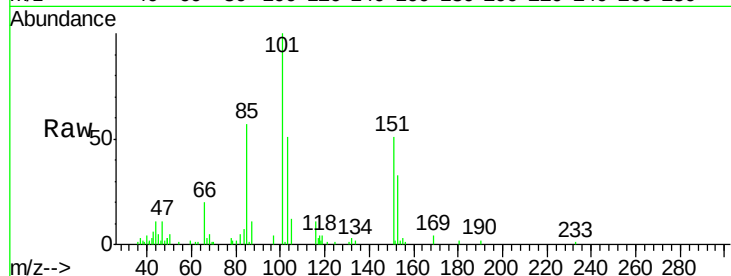
Ion Ratio Lower Upper

101 100

151 70.7 57.0 85.6

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#13

Ethanol

Concen: 81.429 ppbv

RT: 3.75 min Scan# 828

Delta R.T. -0.00 min

Lab File: VL031862.D

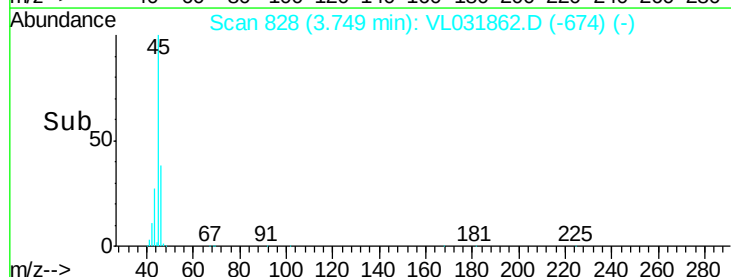
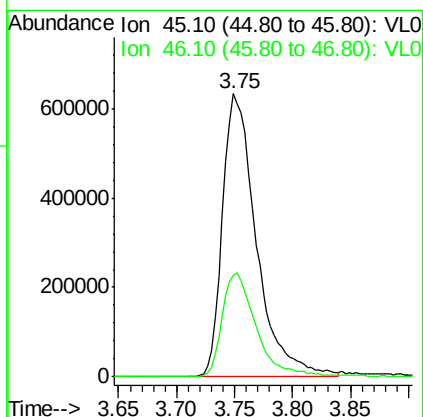
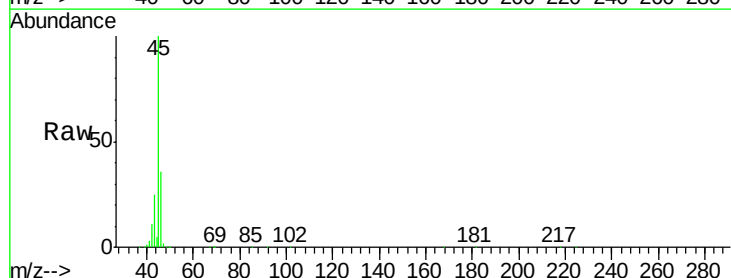
Acq: 12 Apr 2018 11:39

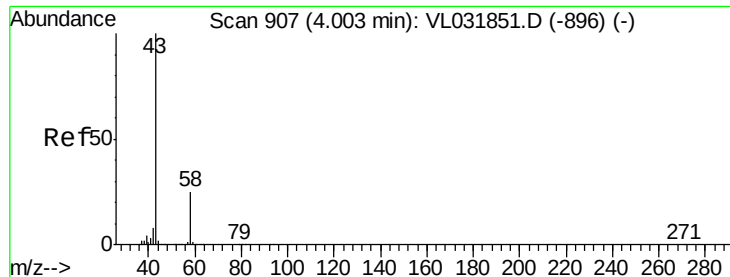
Tgt Ion: 45 Resp: 1283749

Ion Ratio Lower Upper

45 100

46 37.4 14.6 58.6





#15

Acetone

Concen: 1.852 ppbv m

RT: 4.02 min Scan# 913

Delta R.T. 0.02 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218

Tot Ion: 43 Resp: 329258

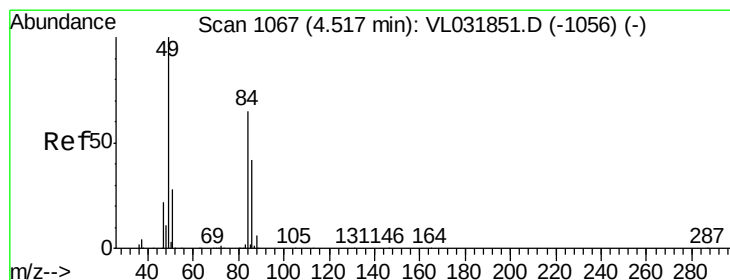
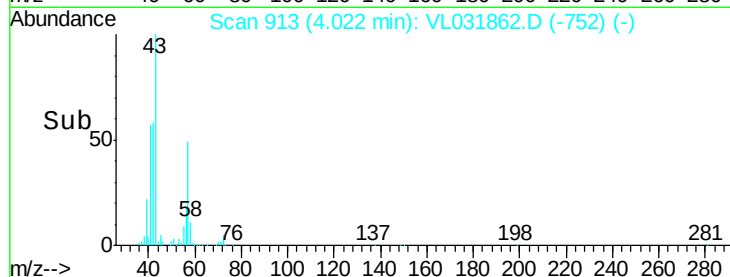
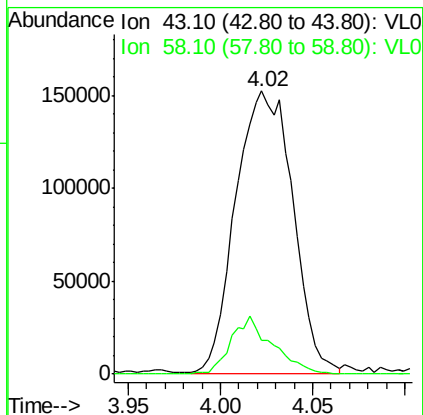
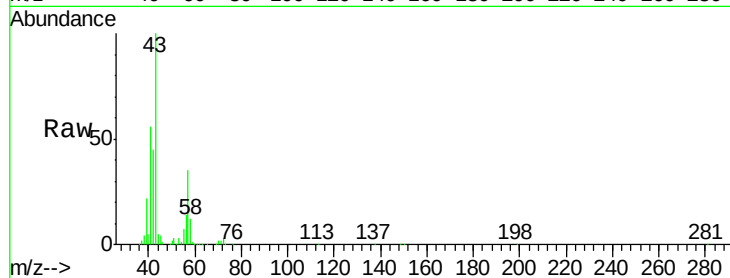
Ion Ratio Lower Upper

43 100

58 14.9 20.9 31.3#

Manual Integrations
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#20

Methylene Chloride

Concen: 3.893 ppbv

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Tgt Ion: 84 Resp: 252095

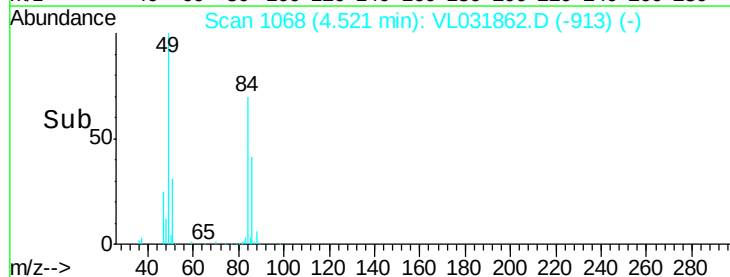
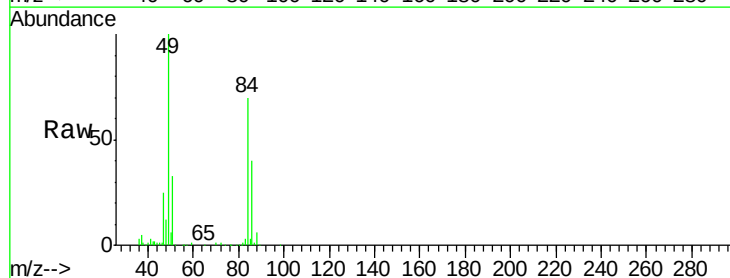
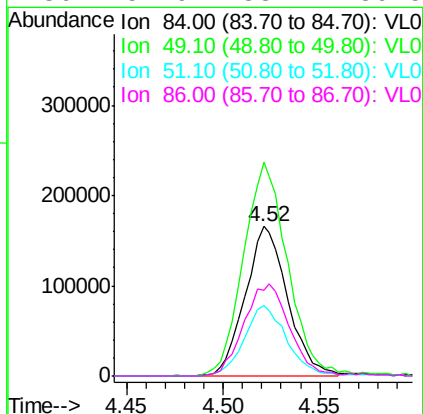
Ion Ratio Lower Upper

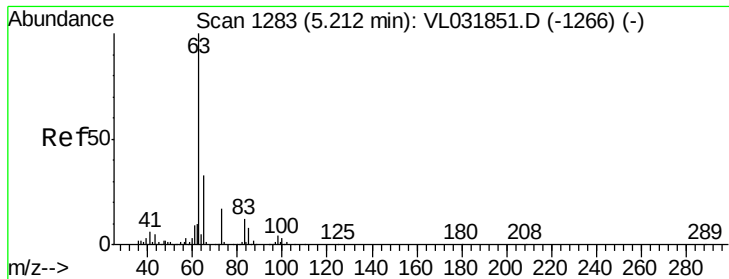
84 100

49 142.9 125.6 188.4

51 47.1 36.4 54.6

86 57.9 53.7 80.5





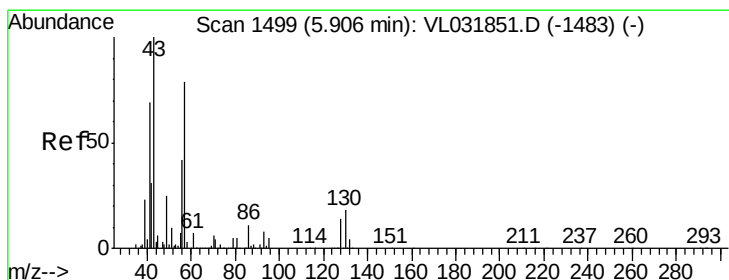
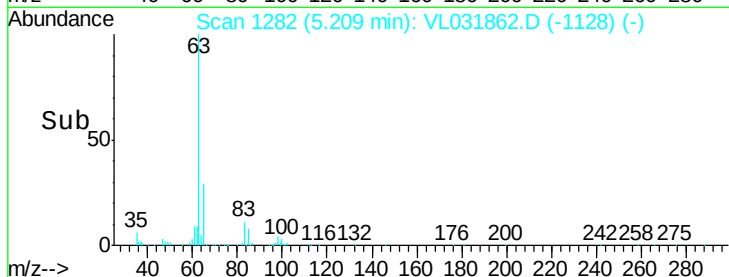
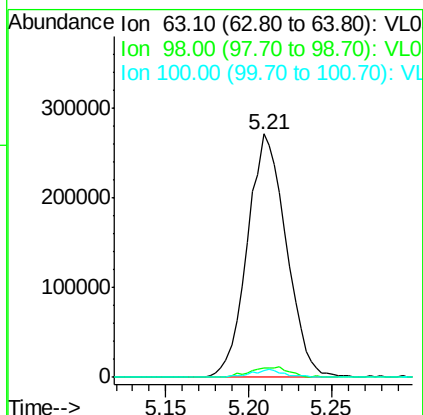
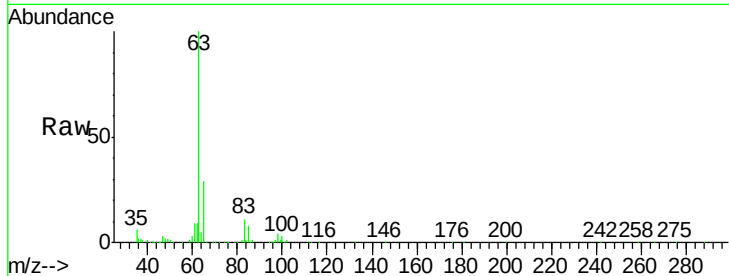
#24
 1,1-Dichloroethane
 Concen: 2.461 ppbv
 RT: 5.21 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VL031862.D
 Acq: 12 Apr 2018 11:39

Instrument :
 MSVOA_L
 ClientSampled :
 GAC-EFF-040218

Tot Ion	Ratio	Resp	Lower	Upper
63	100	441945		
98	4.0		2.4	7.2
100	2.6		1.5	4.4

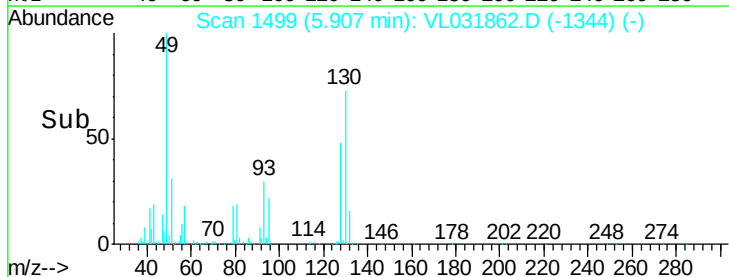
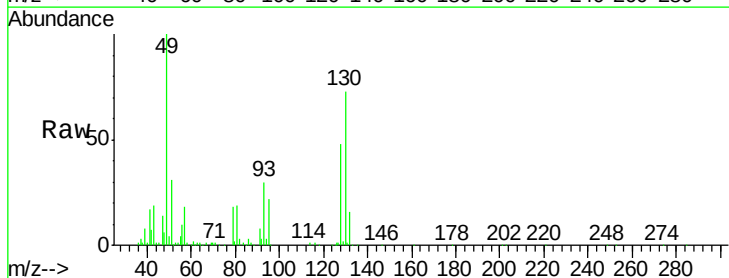
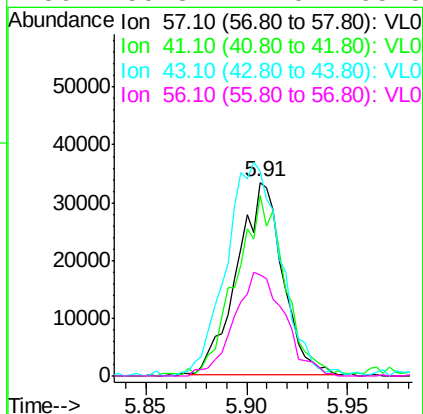
Manual Integrations
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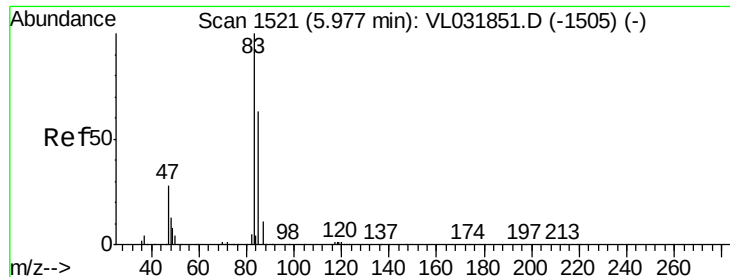
MMDadoda
 4/15/2018 3:06:39 PM



#26
 Hexane
 Concen: 0.407 ppbv
 RT: 5.91 min Scan# 1499
 Delta R.T. -0.00 min
 Lab File: VL031862.D
 Acq: 12 Apr 2018 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	52575		
41	101.3		72.0	108.0
43	134.3		169.8	254.8#
56	59.3		42.0	63.0





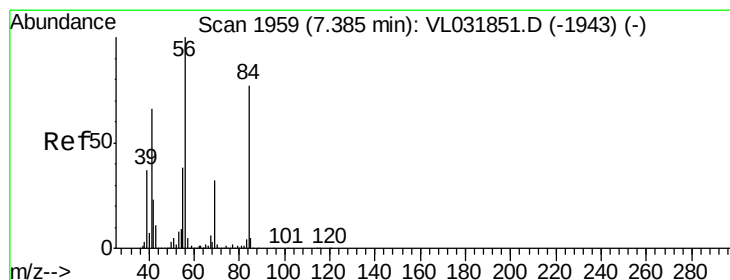
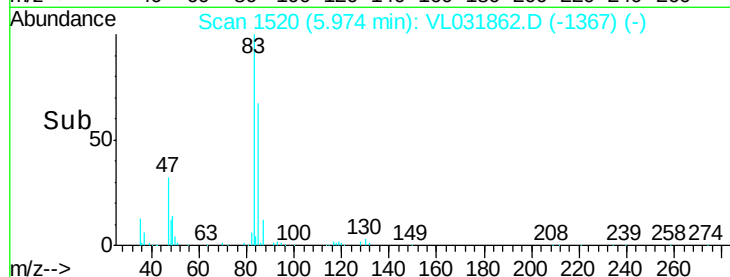
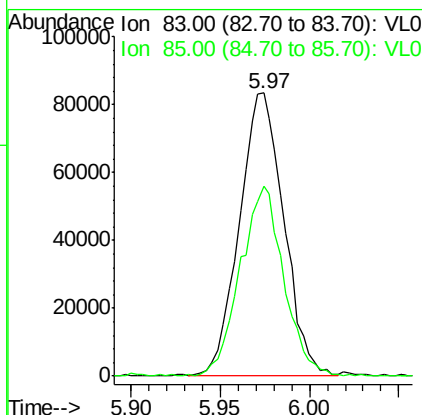
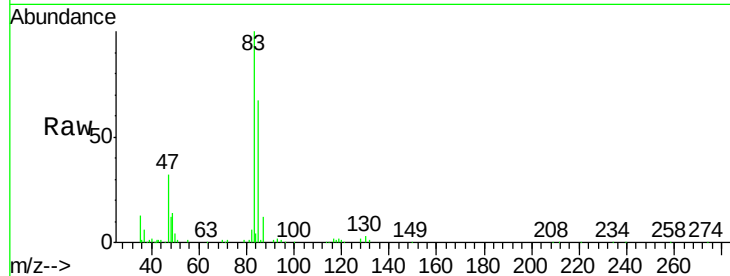
#29
Chloroform
Concen: 0.660 ppbv
RT: 5.97 min Scan# 1520
Delta R.T. -0.01 min
Lab File: VL031862.D
Acq: 12 Apr 2018 11:39

Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-040218

Tot Ion	Ion	Ratio	Resp	Lower	Upper
83	100		144605		
85	66.6	51.4	77.0		

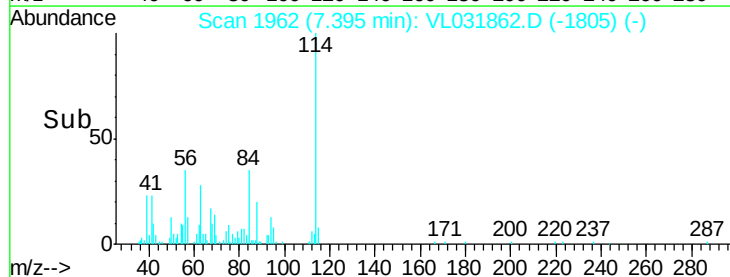
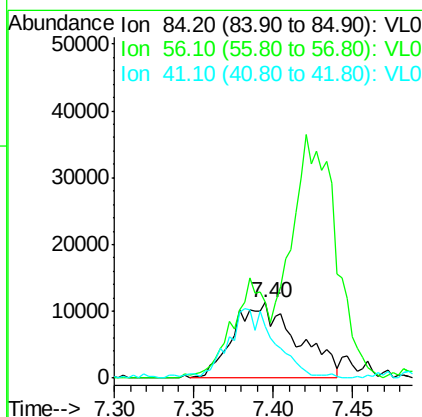
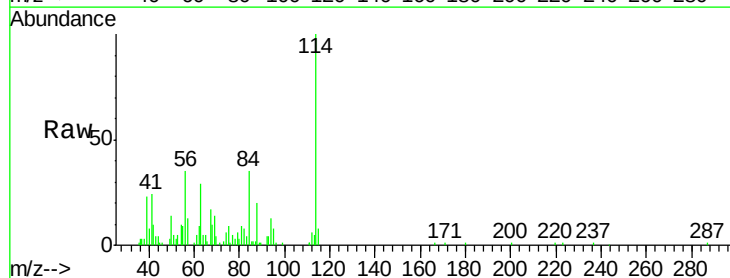
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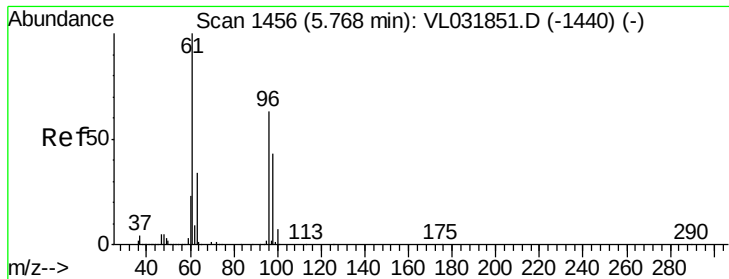
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#30
Cyclohexane
Concen: 0.340 ppbv m
RT: 7.40 min Scan# 1962
Delta R.T. 0.01 min
Lab File: VL031862.D
Acq: 12 Apr 2018 11:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
84	100		31432		
56	0.0	107.7	161.5#		
41	69.8	68.2	102.2		





#31

cis-1,2-Dichloroethene

Concen: 1.978 ppbv

RT: 5.77 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Instrument :

MSVOA_L

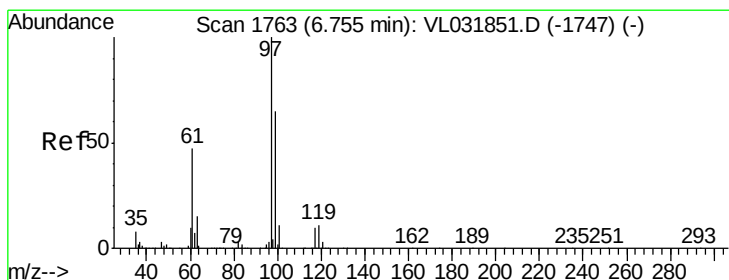
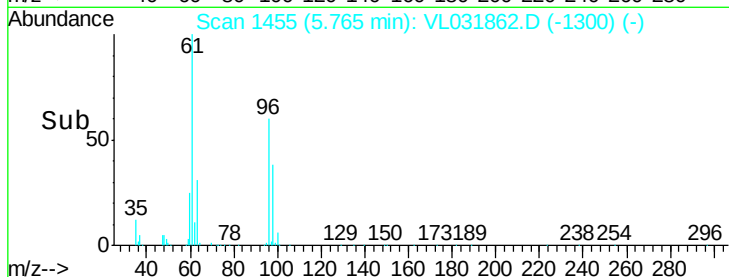
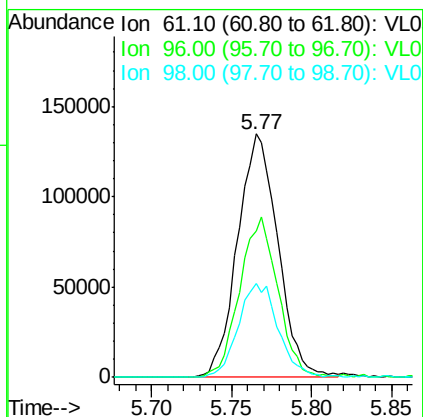
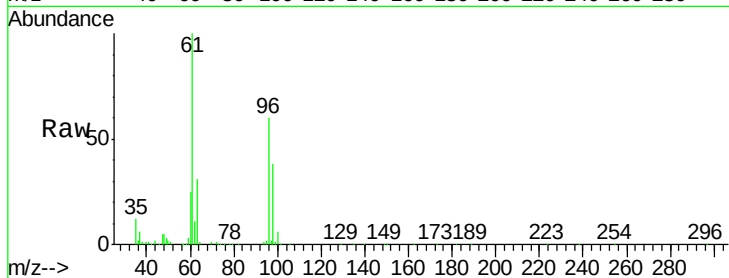
ClientSampleId :

GAC-EFF-040218

Tot Ion:	61	Resp:	231669
Ion Ratio		Lower	Upper
61	100		
96	60.0	47.6	71.4
98	38.3	30.3	45.5

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#32

1,1,1-Trichloroethane

Concen: 4.363 ppbv

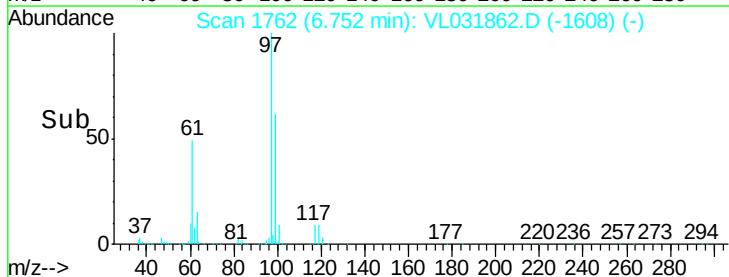
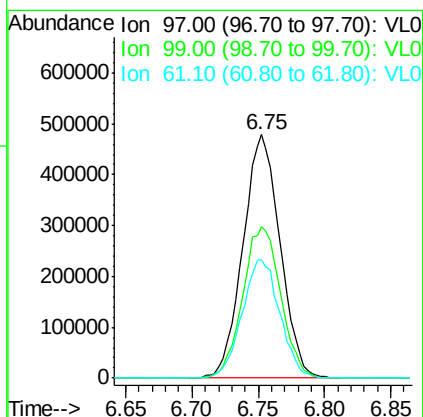
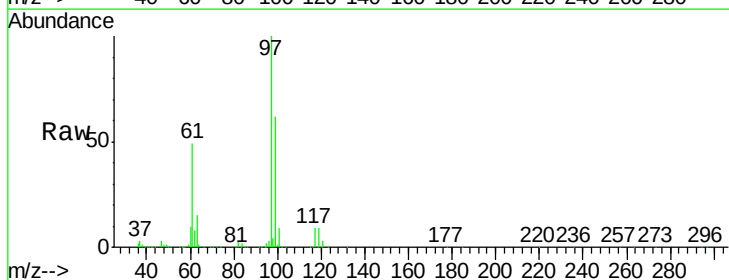
RT: 6.75 min Scan# 1762

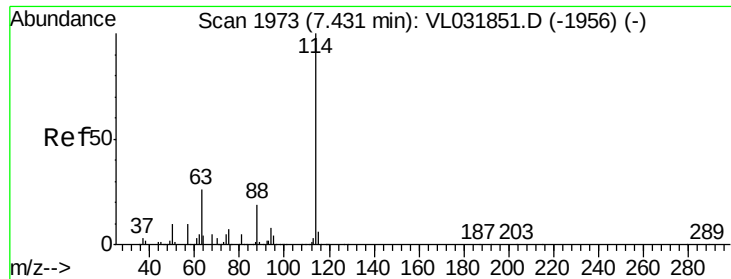
Delta R.T. -0.00 min

Lab File: VL031862.D

Acq: 12 Apr 2018 11:39

Tgt Ion:	97	Resp:	931250
Ion Ratio		Lower	Upper
97	100		
99	63.7	51.5	77.3
61	49.4	40.0	60.0





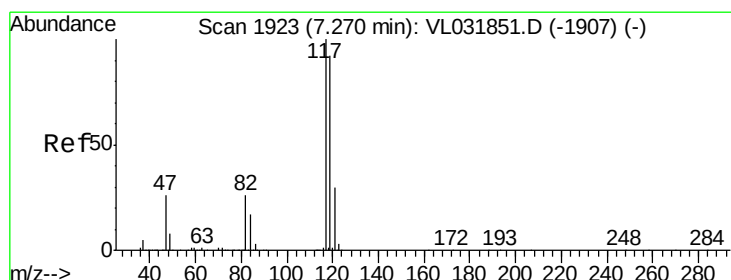
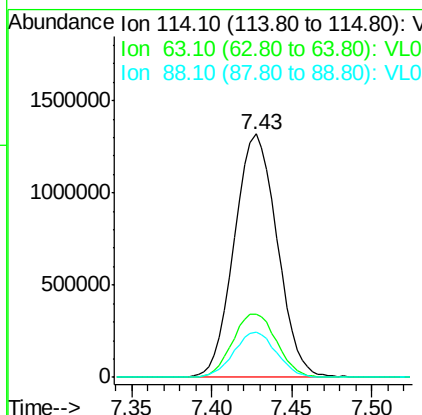
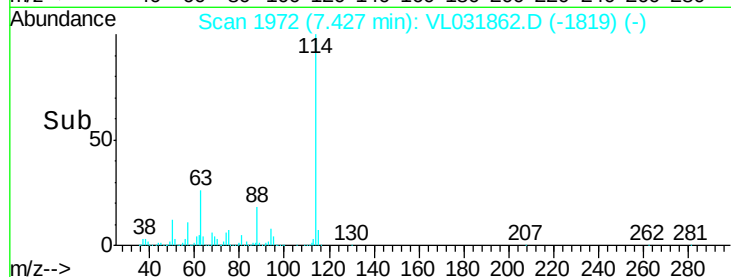
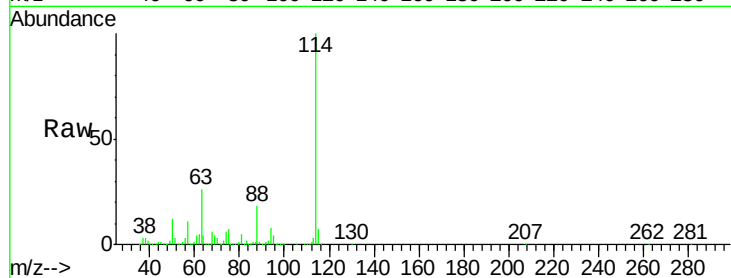
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VL031862.D
 Acq: 12 Apr 2018 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218

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

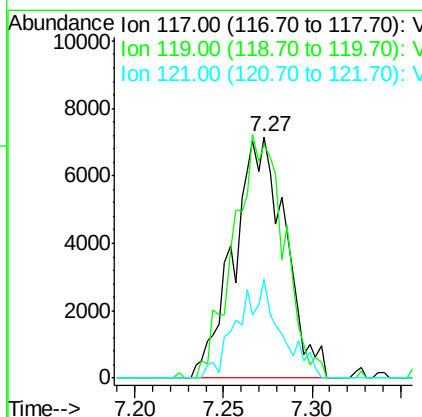
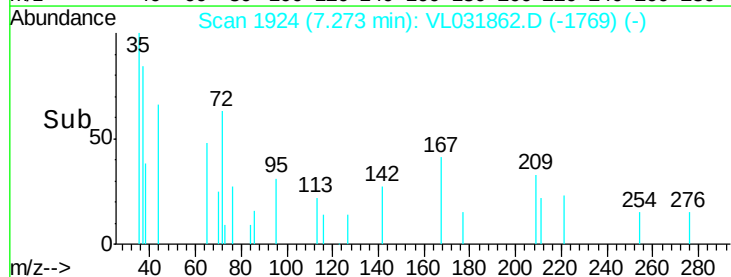
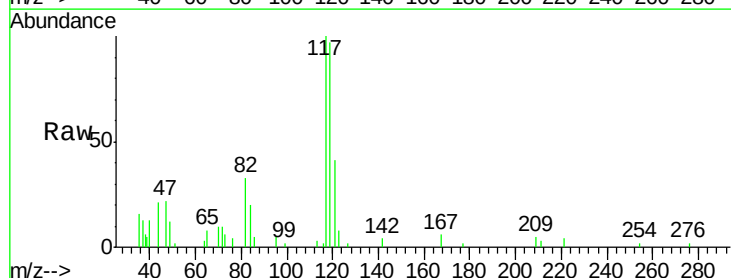
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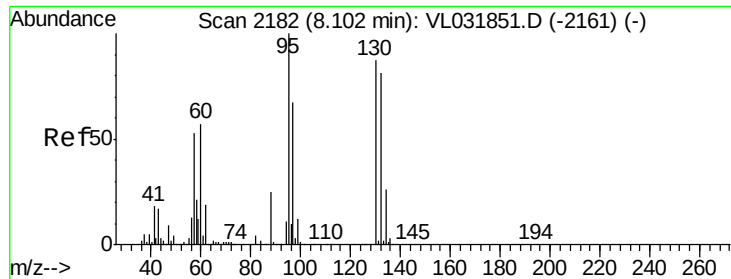
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#35
 Carbon Tetrachloride
 Concen: 0.069 ppbv m
 RT: 7.27 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VL031862.D
 Acq: 12 Apr 2018 11:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.9	115.3
121	41.2	24.5	36.7#





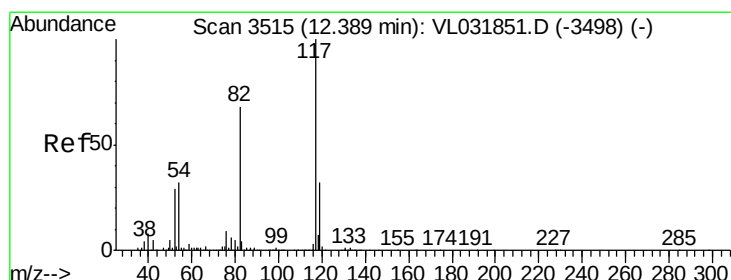
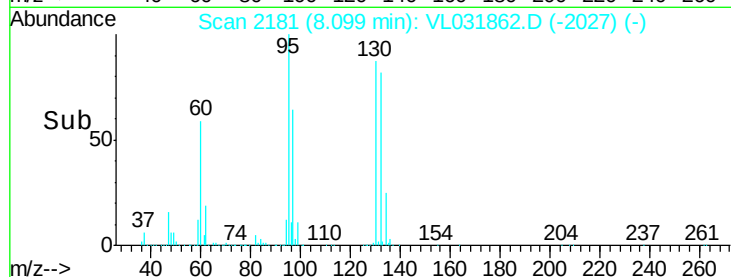
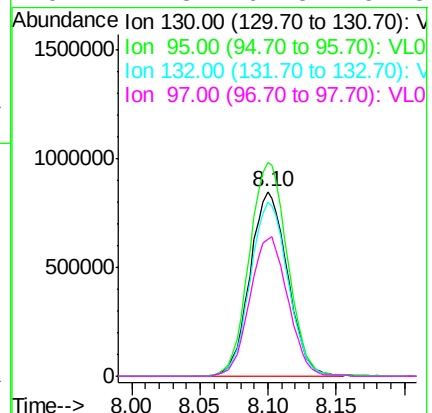
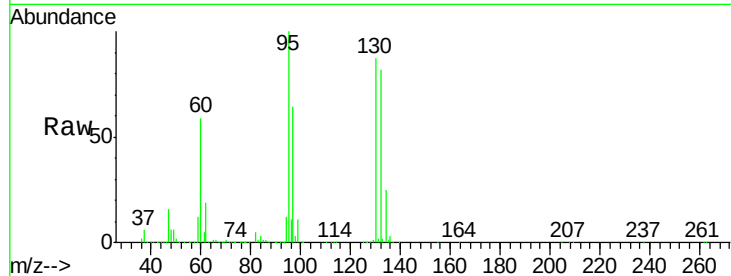
#38
 Trichloroethene
 Concen: 18.315 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL031862.D
 Acq: 12 Apr 2018 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218

Tot Ion	Ion	Ratio	Lower	Upper
130	100			
95	115.6	96.6	144.8	
132	94.5	79.1	118.7	
97	74.3	61.5	92.3	

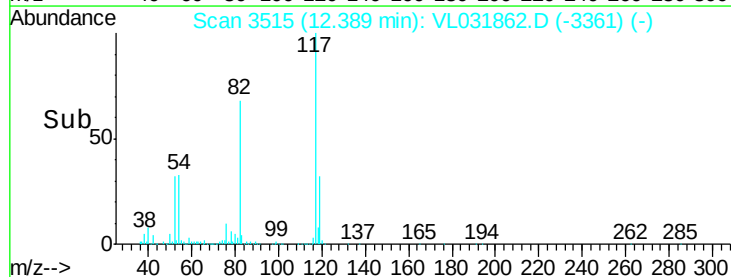
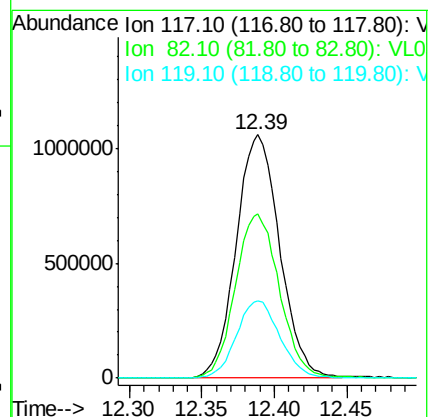
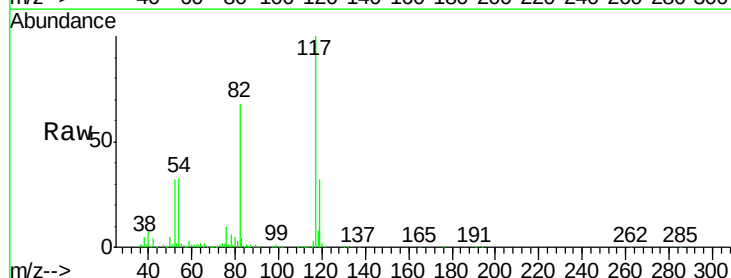
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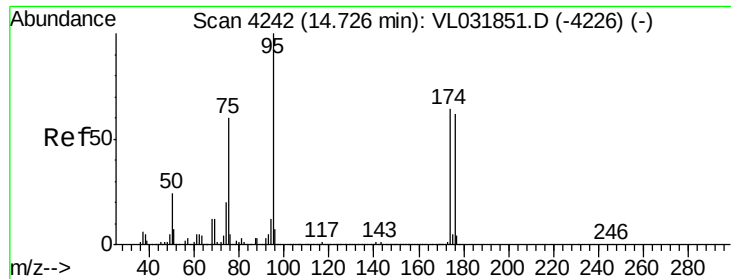
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#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.39 min Scan# 3515
 Delta R.T. -0.00 min
 Lab File: VL031862.D
 Acq: 12 Apr 2018 11:39

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
82	69.4	54.6	81.8	
119	32.1	26.0	39.0	





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.825 ppbv
 RT: 14.73 min Scan# 4242
 Delta R.T. -0.00 min
 Lab File: VL031862.D
 Acq: 12 Apr 2018 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218

Tot Ion: 95 Resp: 1734604
 Ion Ratio Lower Upper
 95 100
 174 65.9 52.3 78.5
 175 4.6 3.9 5.9

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