

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031983.D
 Acq On : 4 May 2018 4:45
 Operator : SY/AP
 Sample : J2629-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:19 PM

Quant Time: May 04 05:58:35 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1179504	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2191907	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2333381	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	1849213	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	28838	0.19	ppbv	90
4) Chloromethane	3.25	50	17000m	0.29	ppbv	
9) Propene	3.13	41	46509	1.14	ppbv	97
11) Trichlorofluoromethane	4.11	101	41315	0.22	ppbv	89
13) Ethanol	3.77	45	337197	22.20	ppbv #	100
15) Acetone	4.00	43	652532	3.91	ppbv #	73
17) tert-Butyl alcohol	4.50	59	56816m	0.82	ppbv	
19) Isopropyl Alcohol	4.16	45	33476m	0.37	ppbv	
20) Methylene Chloride	4.52	84	201153	3.57	ppbv	99
26) Hexane	5.90	57	383036	2.85	ppbv #	43
34) 2-Butanone	5.45	43	1315447	7.28	ppbv	100
35) Carbon Tetrachloride	7.27	117	11572m	0.07	ppbv	
36) Benzene	7.14	78	37523m	0.18	ppbv	
51) 2-Hexanone	10.41	43	307646	1.98	ppbv #	99
53) Toluene	10.10	91	54951m	0.25	ppbv	
59) m/p-Xylene	13.27	91	81099m	0.29	ppbv	
60) o-Xylene	13.99	91	37709m	0.13	ppbv	
73) 1,3,5-Trimethylbenzene	16.31	105	33540m	0.13	ppbv	
74) 1,2,4-Trimethylbenzene	17.08	105	101025	0.34	ppbv #	63

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

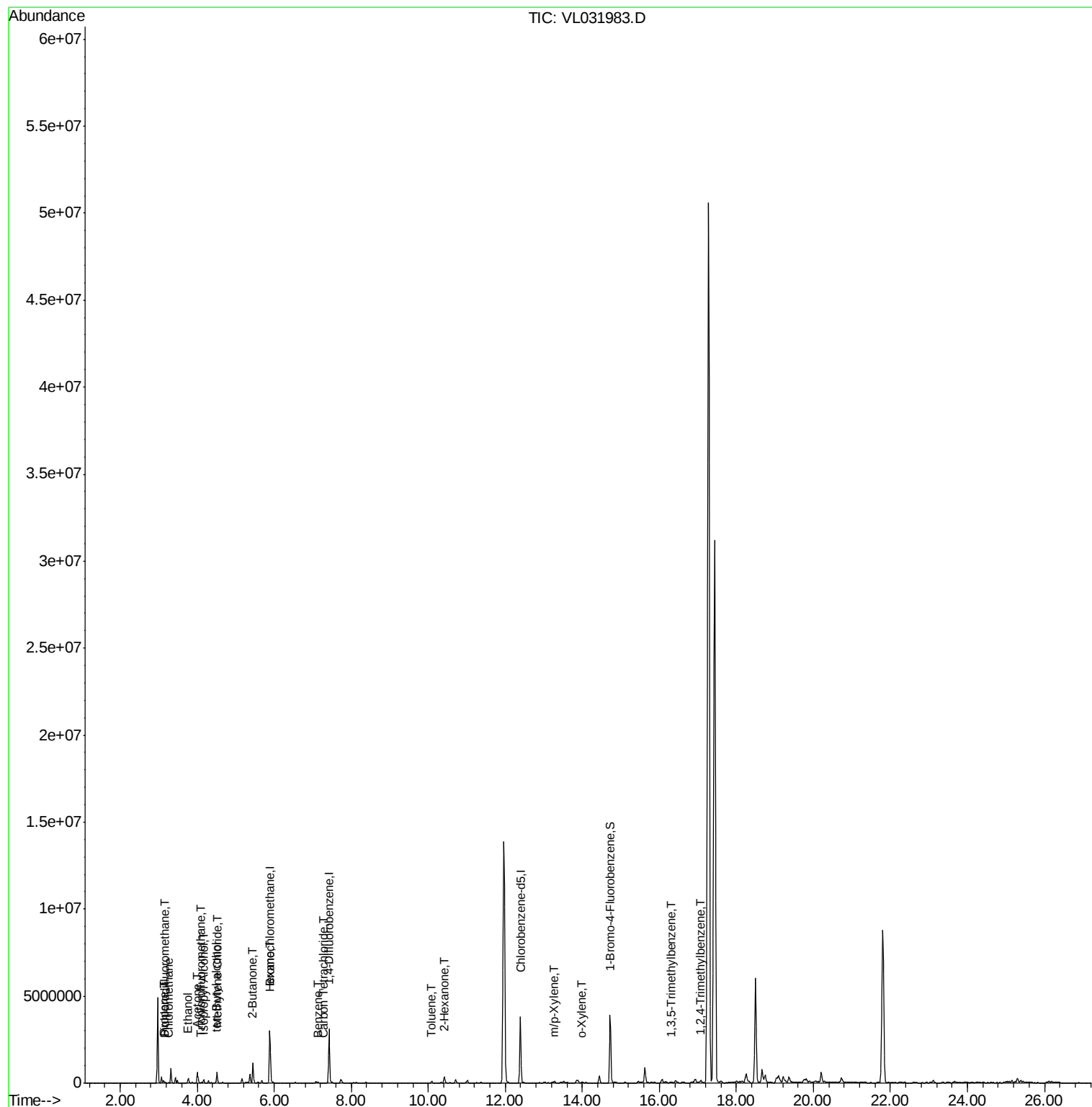
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
Data File : VL031983.D
Acq On : 4 May 2018 4:45
Operator : SY/AP
Sample : J2629-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

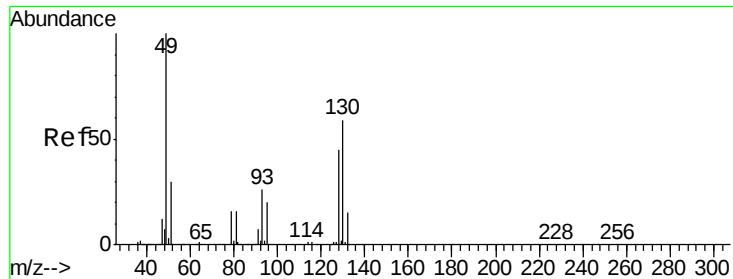
Instrument :
MSVOA_L
ClientSampleId :
SG3

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5/4/2018 5:01:19 PM

Quant Time: May 04 05:58:35 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration





#1

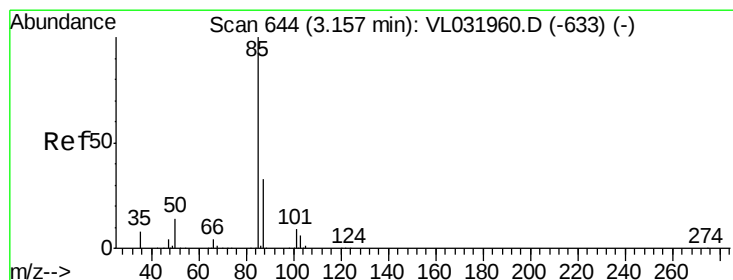
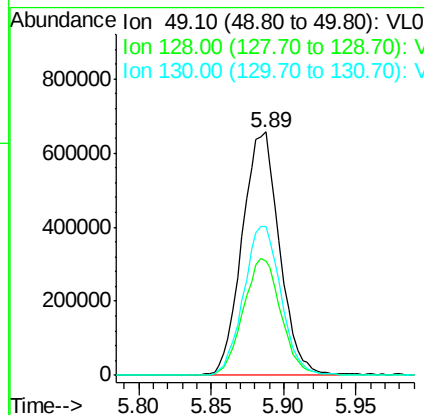
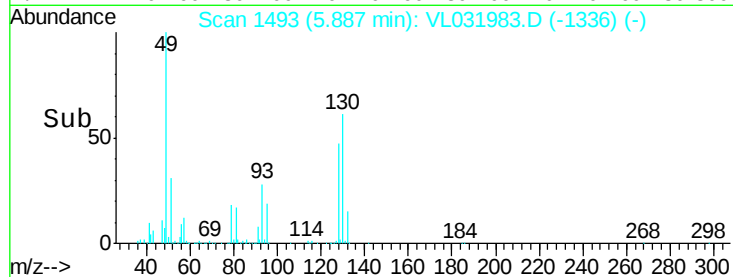
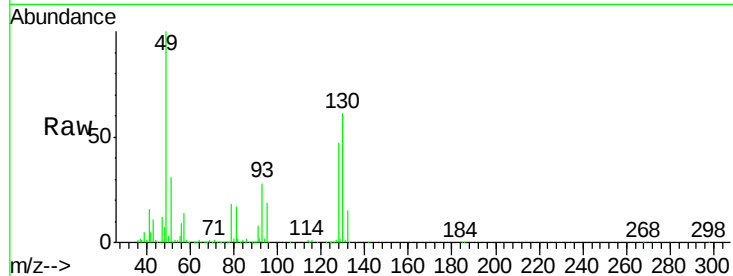
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.89 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL031983.D
 Acq: 4 May 2018 4:45

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.7	24.1	72.3
130	61.6	30.7	92.1

Manual Integrations
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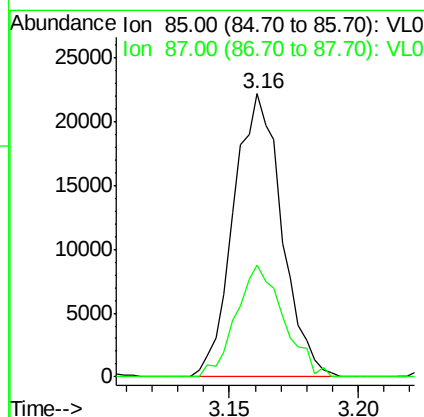
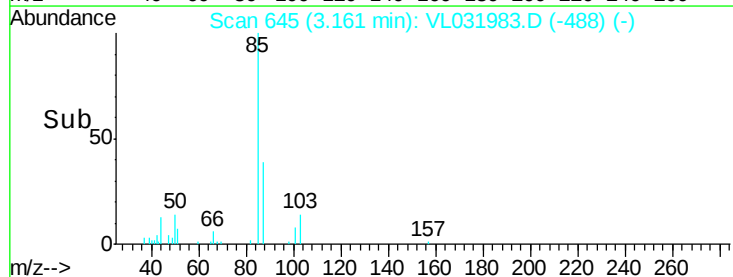
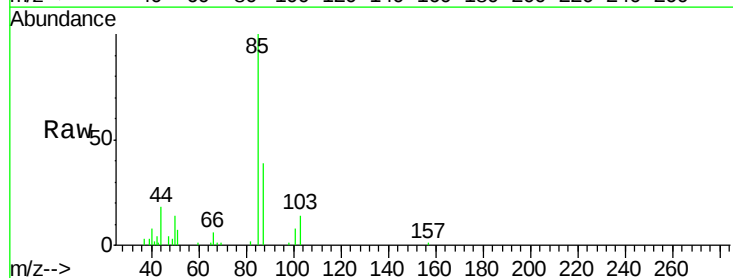
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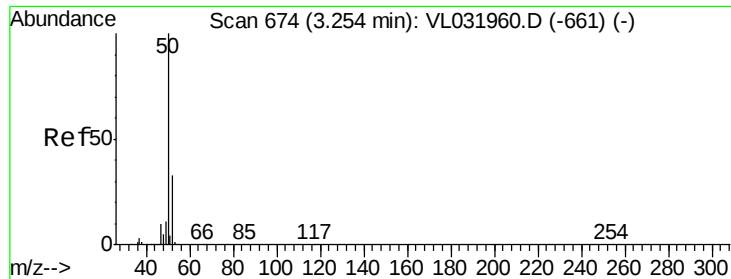


#2

Dichlorodifluoromethane
 Concen: 0.19 ppbv
 RT: 3.16 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VL031983.D
 Acq: 4 May 2018 4:45

Tgt Ion	Ratio	Lower	Upper
85	100		
87	39.4	26.8	40.2





#4

Chloromethane

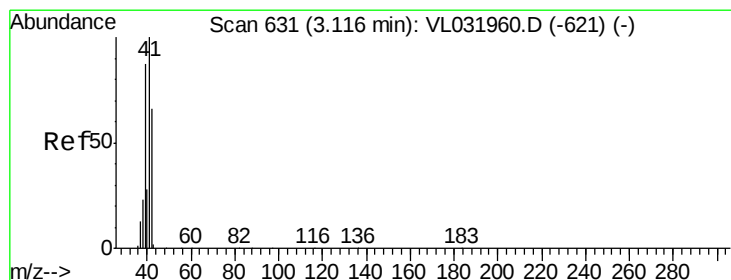
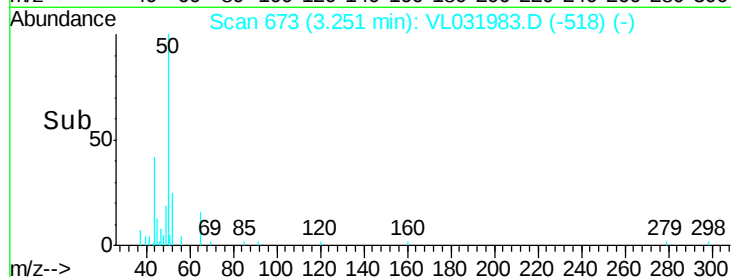
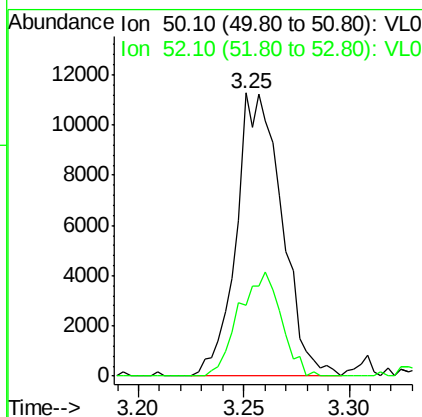
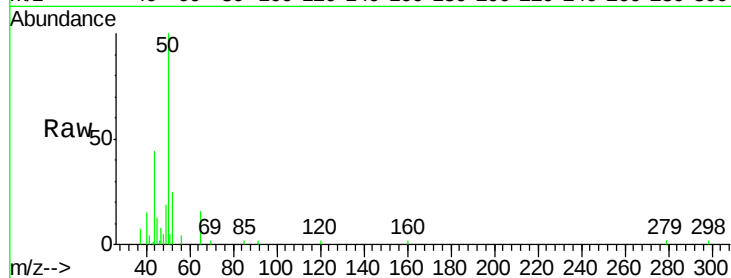
Concen: 0.29 ppbv m
 RT: 3.25 min Scan# 673
 Delta R.T. -0.00 min
 Lab File: VL031983.D
 Acq: 4 May 2018 4:45

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Tot Ion: 50 Resp: 17000
 Ion Ratio Lower Upper
 50 100
 52 24.9 26.6 39.8#

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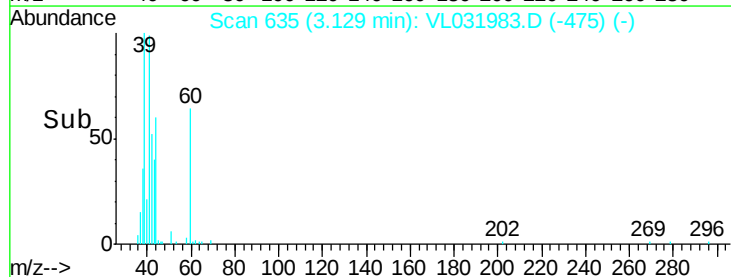
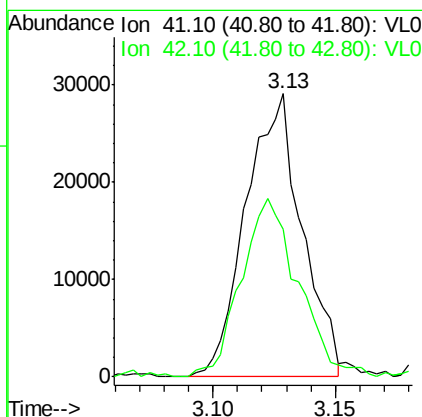
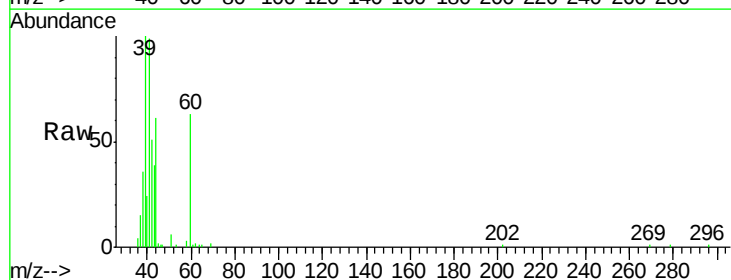


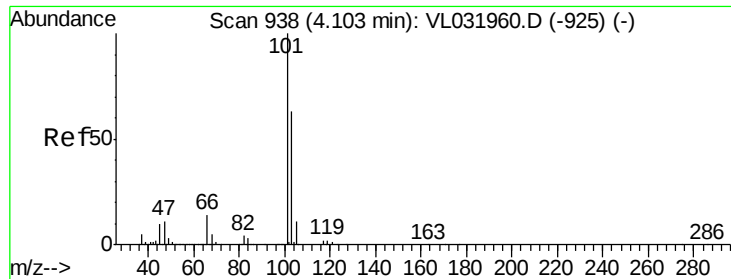
#9

Propene

Concen: 1.14 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VL031983.D
 Acq: 4 May 2018 4:45

Tgt Ion: 41 Resp: 46509
 Ion Ratio Lower Upper
 41 100
 42 65.3 53.9 80.9





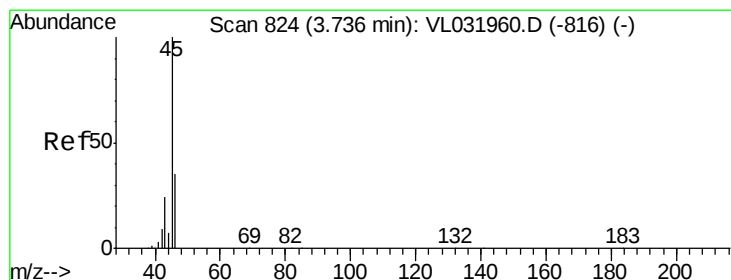
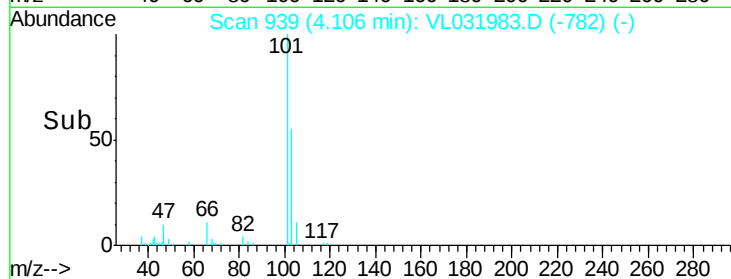
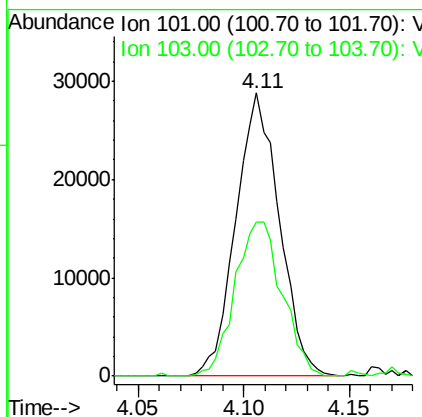
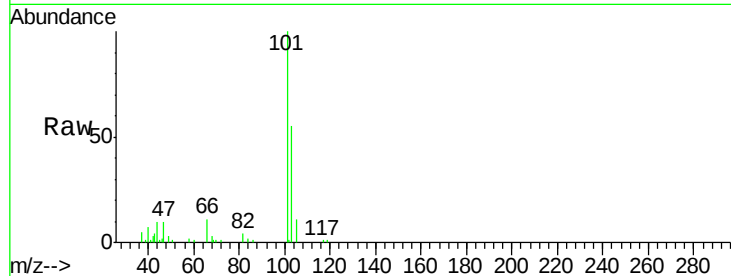
#11
Trichlorofluoromethane
Concen: 0.22 ppbv
RT: 4.11 min Scan# 939
Delta R.T. 0.00 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Instrument :
MSVOA_L
ClientSampled :
SG3

Tot Ion	Ratio	Lower	Upper
101	100		
103	54.7	50.7	76.1

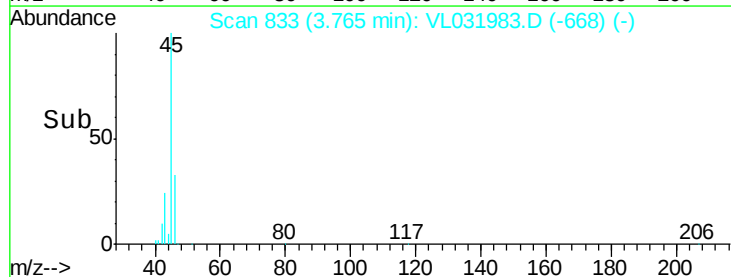
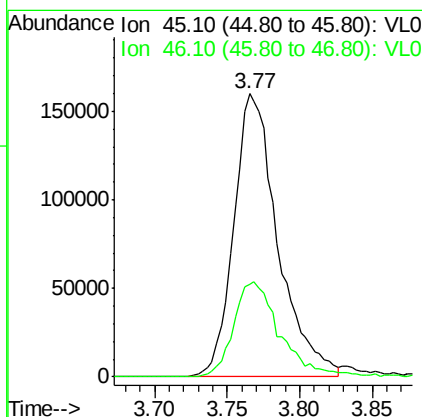
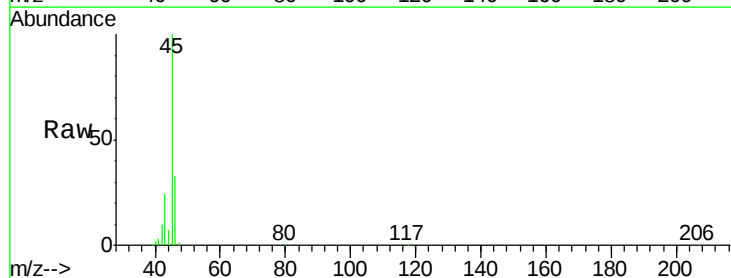
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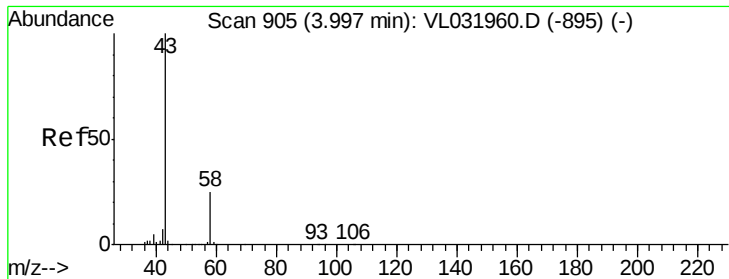
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#13
Ethanol
Concen: 22.20 ppbv
RT: 3.77 min Scan# 833
Delta R.T. 0.03 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.9	0.0	0.0#





#15

Acetone

Concen: 3.91 ppbv

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL031983.D

Acq: 4 May 2018 4:45

Instrument :

MSVOA_L

ClientSampleId :

SG3

Tot Ion: 43 Resp: 652532

Ion Ratio Lower Upper

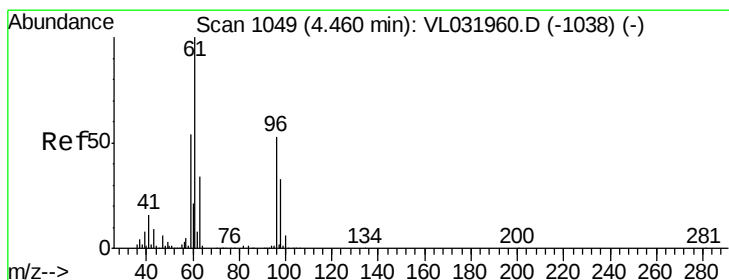
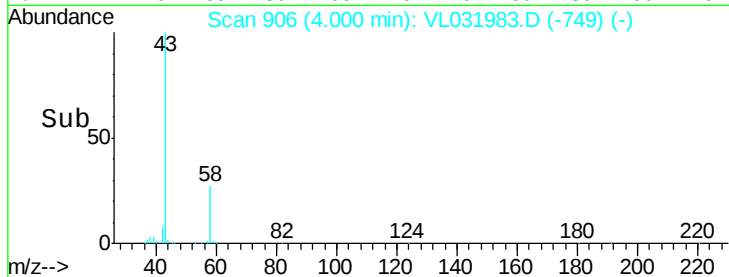
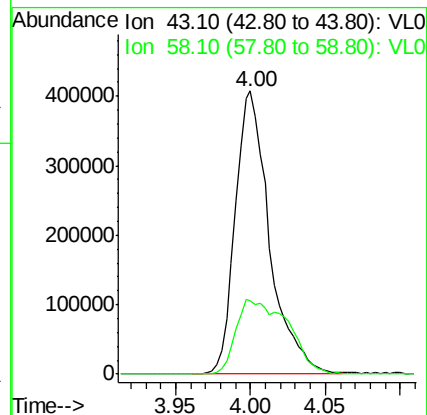
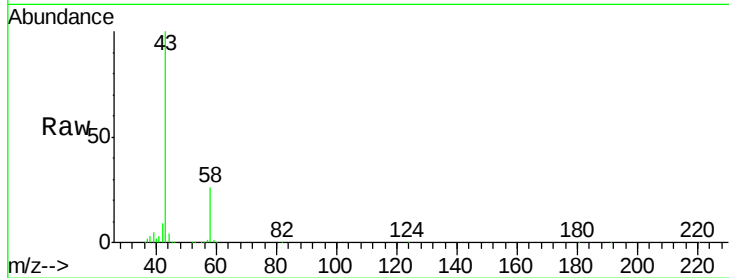
43 100

58 40.2 21.1 31.7#

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#17

tert-Butyl alcohol

Concen: 0.82 ppbv m

RT: 4.50 min Scan# 1060

Delta R.T. 0.04 min

Lab File: VL031983.D

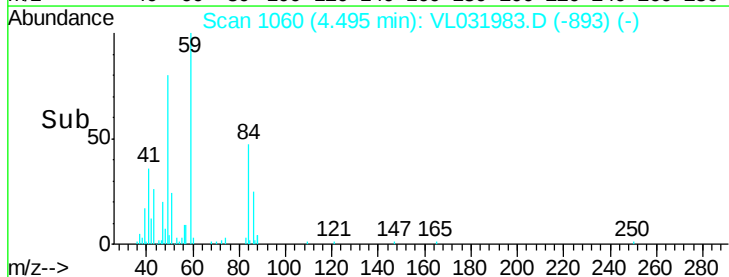
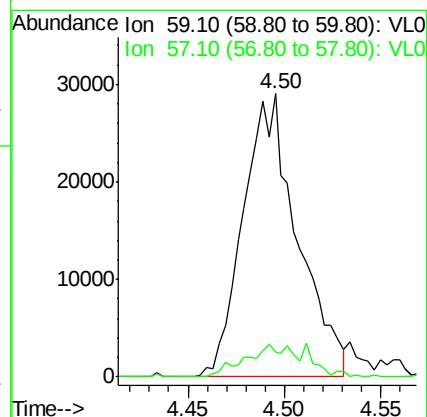
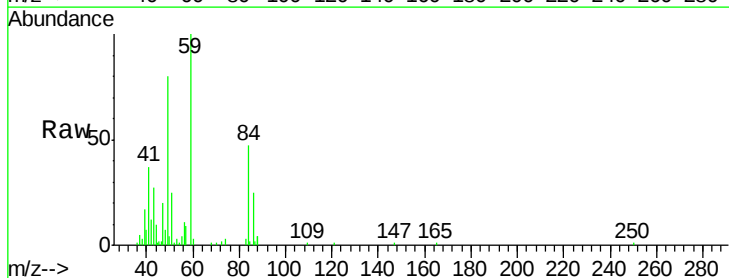
Acq: 4 May 2018 4:45

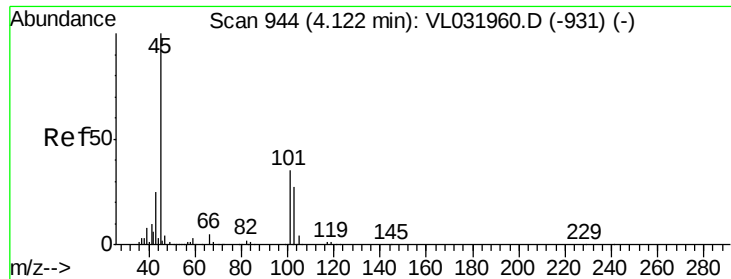
Tgt Ion: 59 Resp: 56816

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





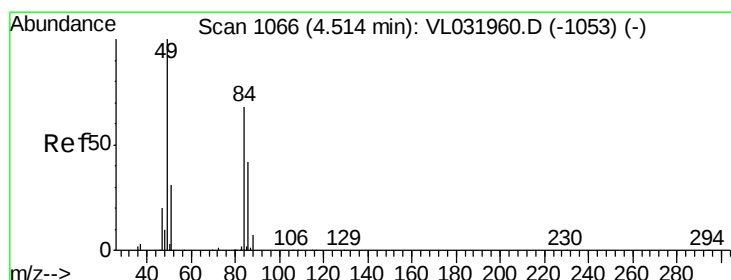
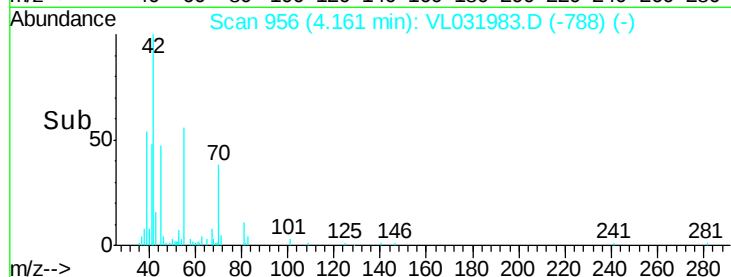
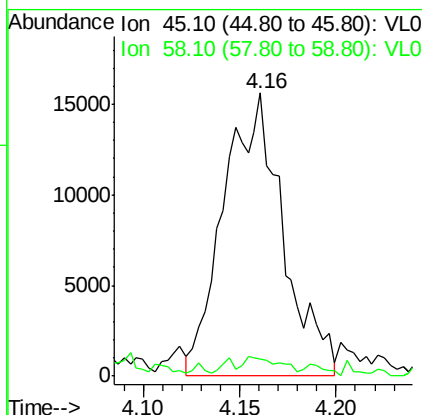
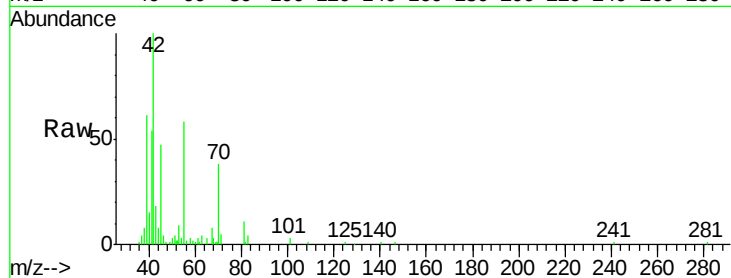
#19
Isopropyl Alcohol
Concen: 0.37 ppbv m
RT: 4.16 min Scan# 956
Delta R.T. 0.04 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Instrument :
MSVOA_L
ClientSampleId :
SG3

Tot Ion: 45 Resp: 33476
Ion Ratio Lower Upper
45 100
58 783.2 1.4 2.2#

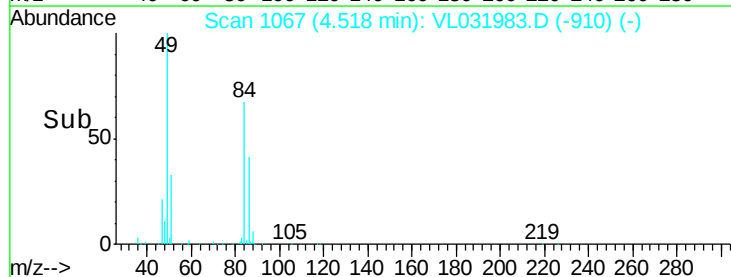
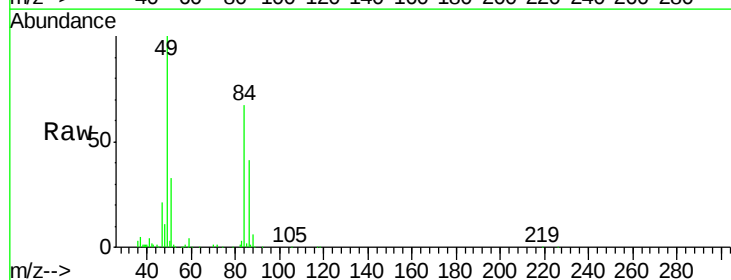
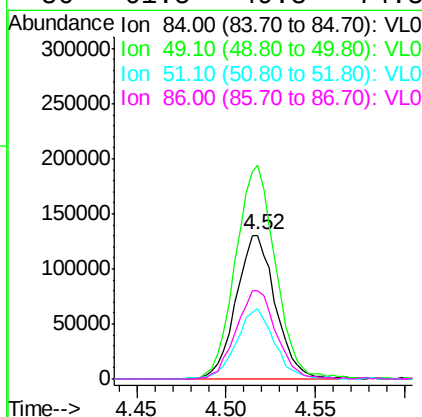
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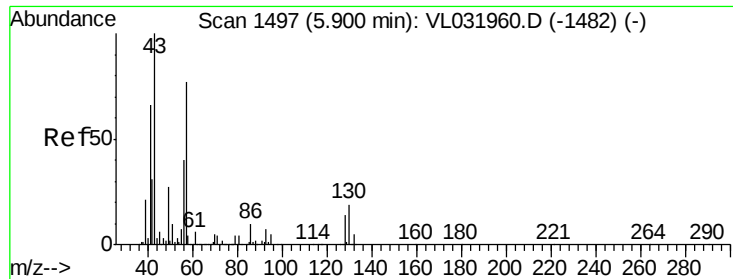
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#20
Methylene Chloride
Concen: 3.57 ppbv
RT: 4.52 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Tgt Ion: 84 Resp: 201153
Ion Ratio Lower Upper
84 100
49 148.1 118.6 178.0
51 48.8 36.6 54.8
86 61.5 49.8 74.8





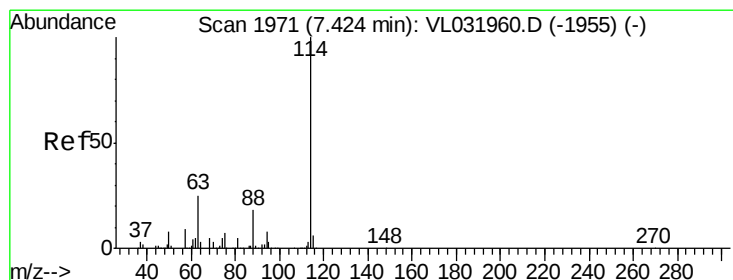
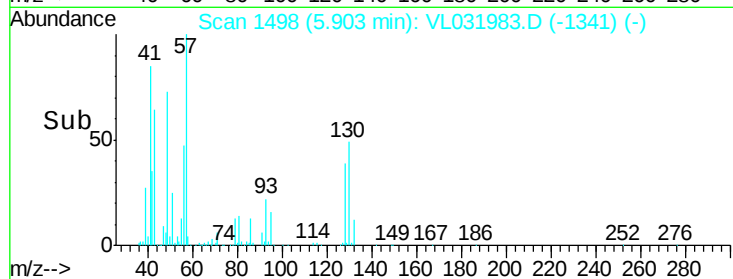
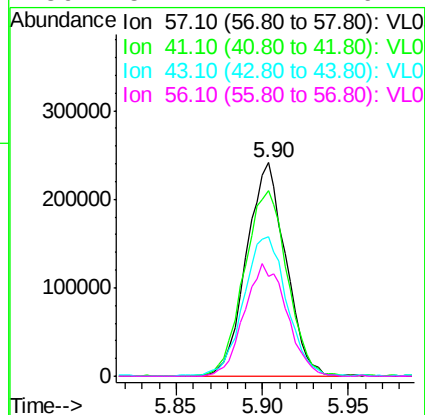
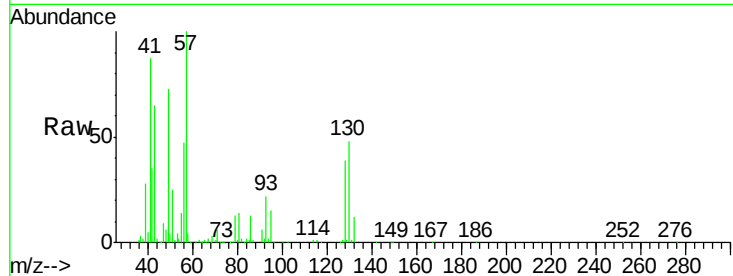
#26
Hexane
Concen: 2.85 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Instrument :
MSVOA_L
ClientSampled :
SG3

Tot Ion	Ratio	Lower	Upper
57	100		
41	95.7	71.8	107.6
43	71.8	171.5	257.3#
56	57.2	41.4	62.2

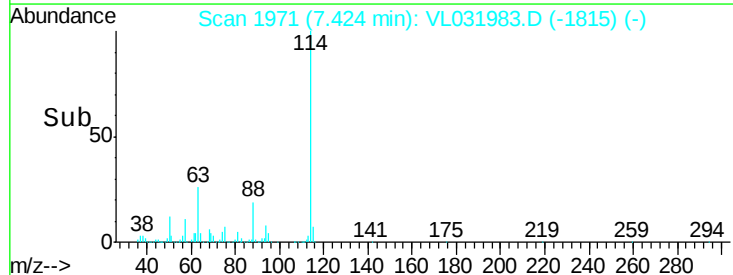
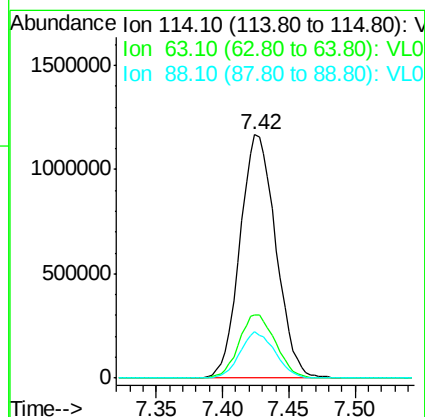
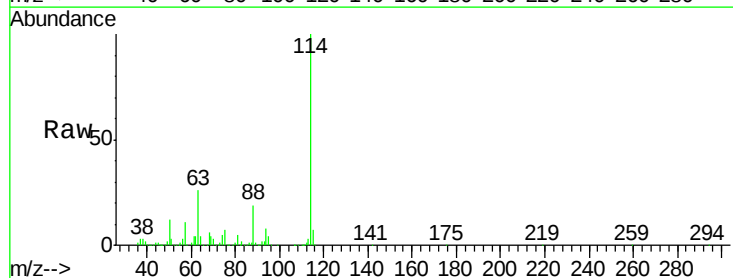
Manual Integrations
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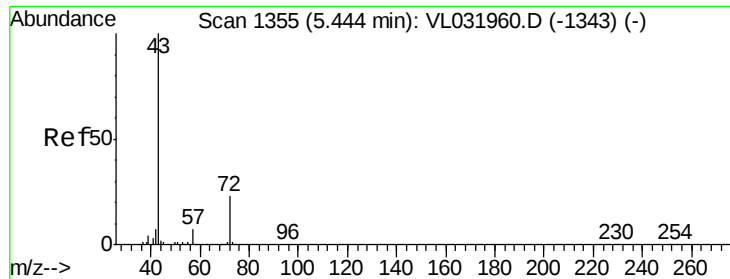
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.42 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.6	20.8	31.2
88	18.6	14.6	21.8





#34

2-Butanone

Concen: 7.28 ppbv

RT: 5.45 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VL031983.D

Acq: 4 May 2018 4:45

Instrument :

MSVOA_L

ClientSampled :

SG3

Tot Ion: 43 Resp: 1315447

Ion Ratio Lower Upper

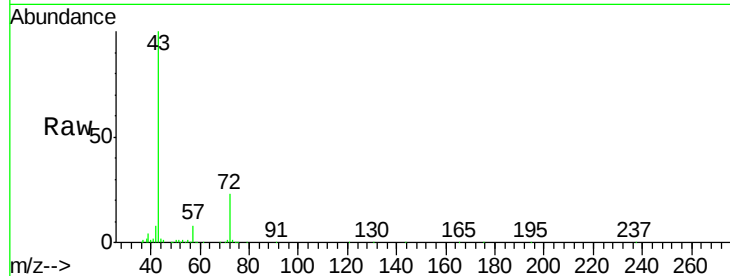
43 100

72 22.7 18.3 27.5

Manual Integrations
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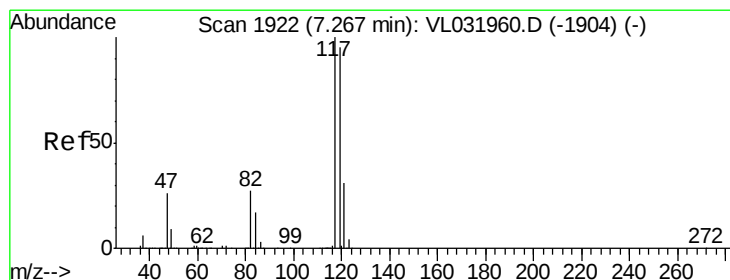
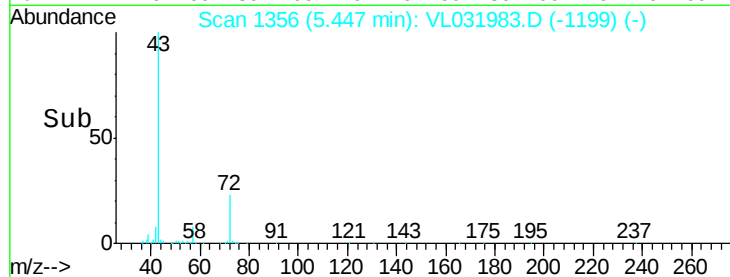
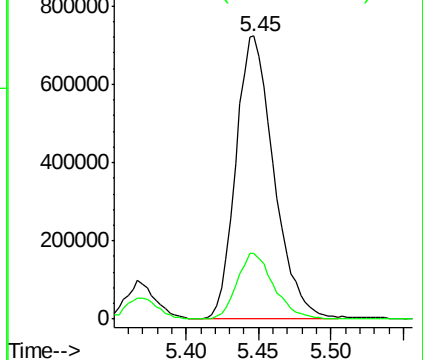
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.07 ppbv m

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VL031983.D

Acq: 4 May 2018 4:45

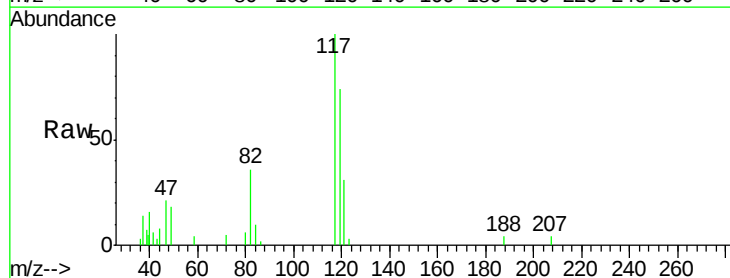
Tgt Ion: 117 Resp: 11572

Ion Ratio Lower Upper

117 100

119 74.3 76.4 114.6#

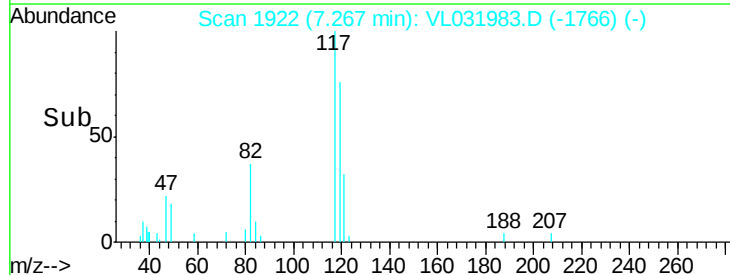
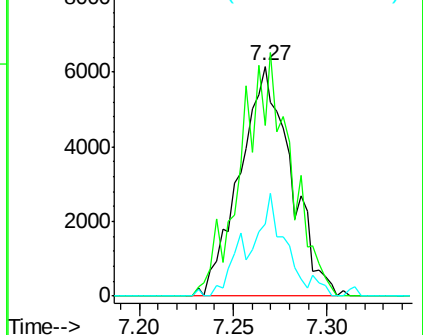
121 31.3 24.4 36.6

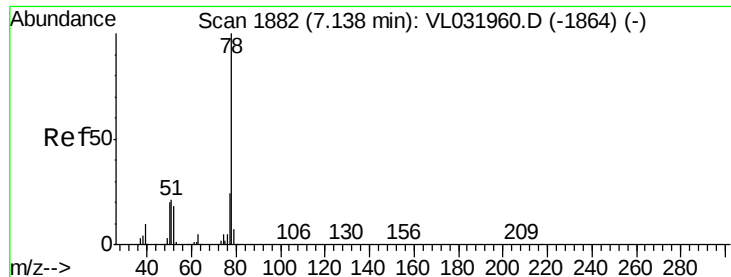


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





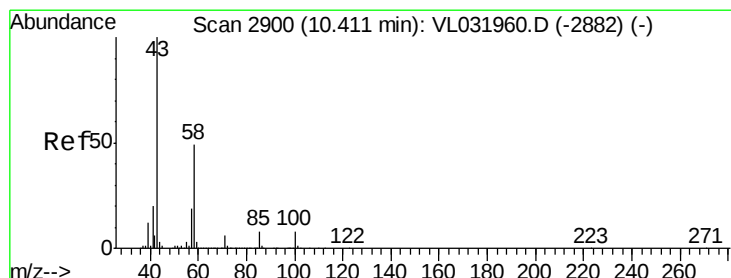
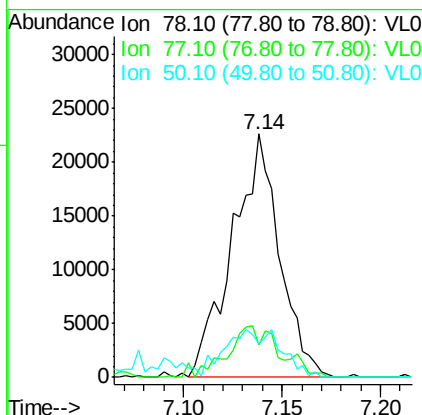
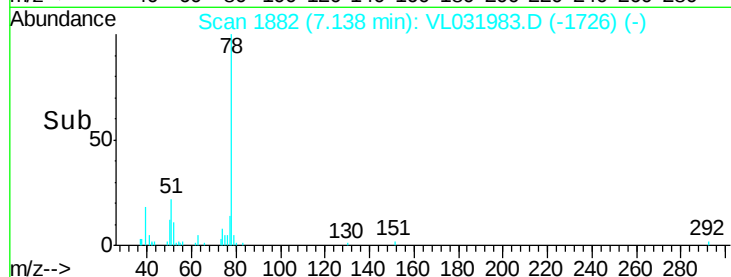
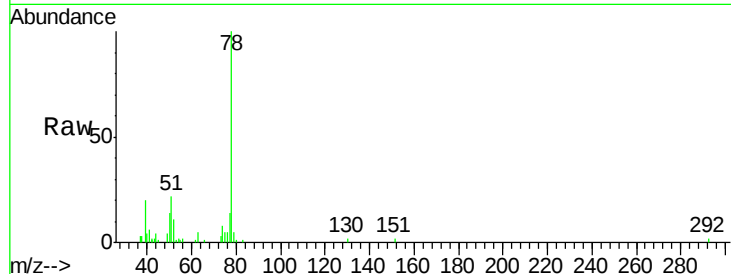
#36
Benzene
Concen: 0.18 ppbv m
RT: 7.14 min Scan# 1882
Delta R.T. 0.00 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Instrument :
MSVOA_L
ClientSampled :
SG3

Tot Ion	Ratio	Lower	Upper
78	100		
77	13.5	19.2	28.8#
50	13.8	16.2	24.4#

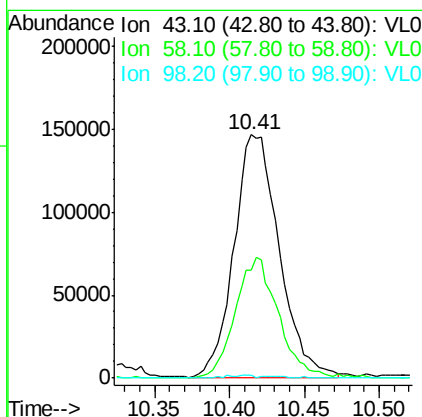
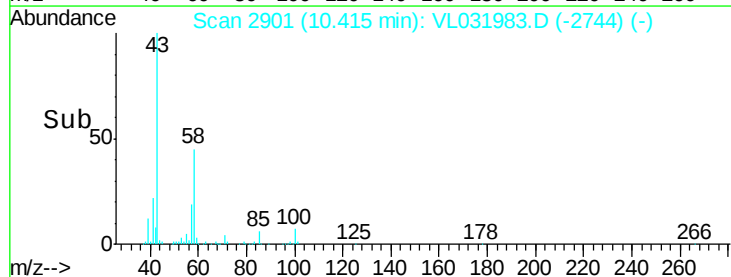
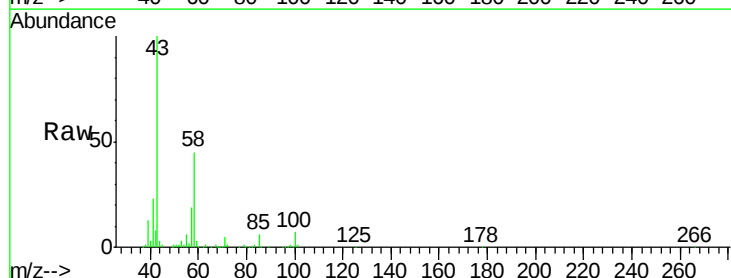
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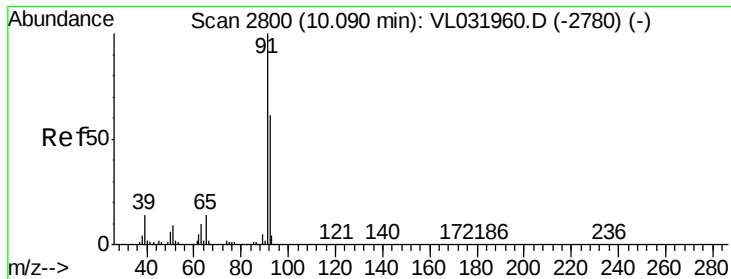
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#51
2-Hexanone
Concen: 1.98 ppbv
RT: 10.41 min Scan# 2901
Delta R.T. 0.00 min
Lab File: VL031983.D
Acq: 4 May 2018 4:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.8	38.6	58.0
98	1.2	0.2	0.2#





#53

Toluene

Concen: 0.25 ppbv m

RT: 10.10 min Scan# 2803

Delta R.T. 0.01 min

Lab File: VL031983.D

Acq: 4 May 2018 4:45

Instrument :

MSVOA_L

ClientSampleId :

SG3

Tot Ion: 91 Resp: 54951

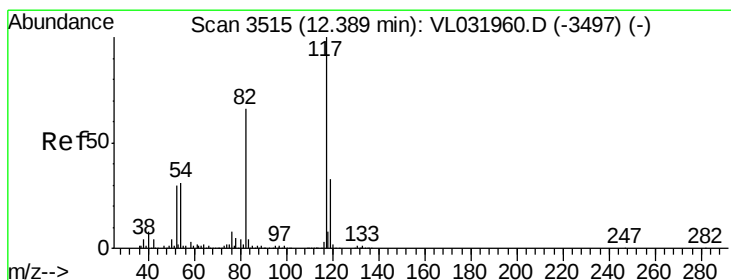
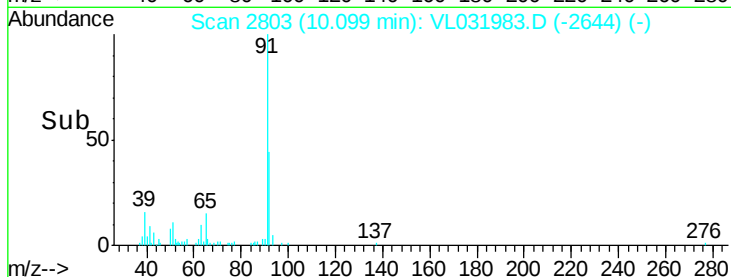
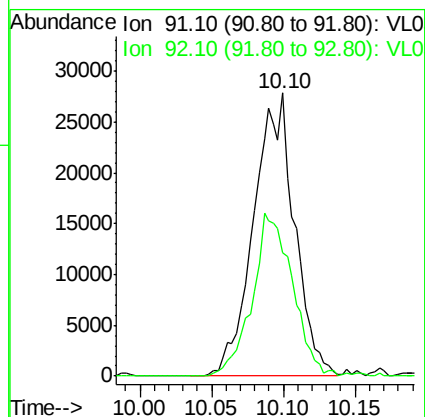
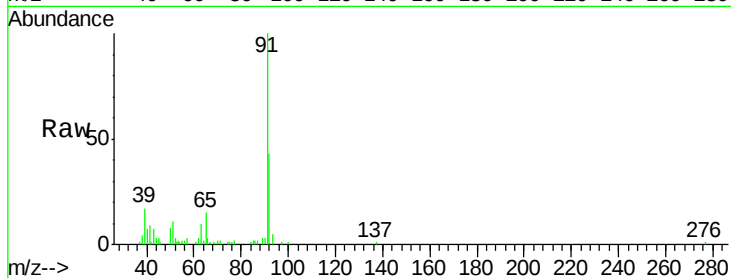
Ion Ratio Lower Upper

91 100

92 57.3 47.4 71.2

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.39 min Scan# 3516

Delta R.T. 0.00 min

Lab File: VL031983.D

Acq: 4 May 2018 4:45

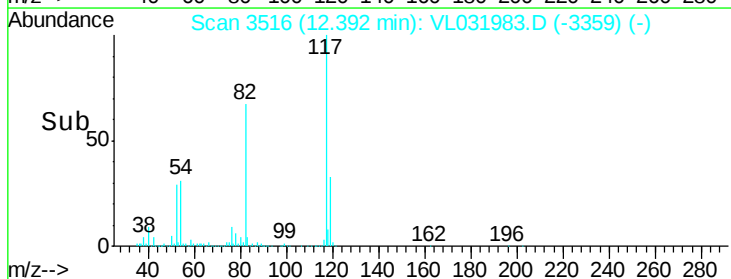
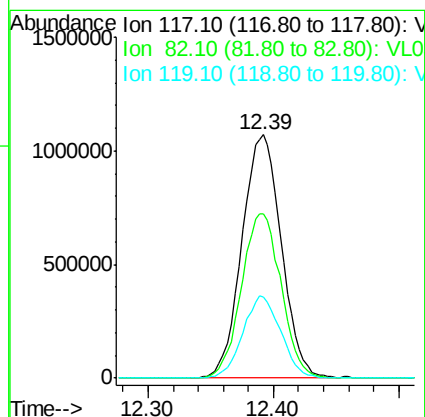
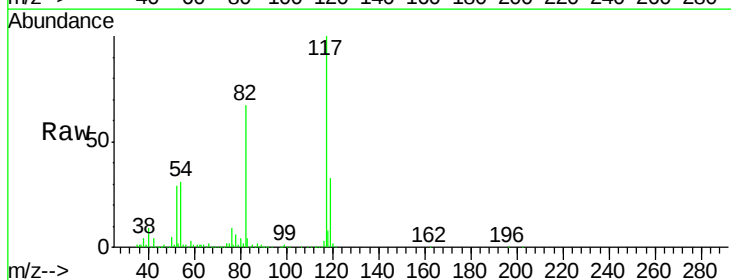
Tgt Ion: 117 Resp: 2333381

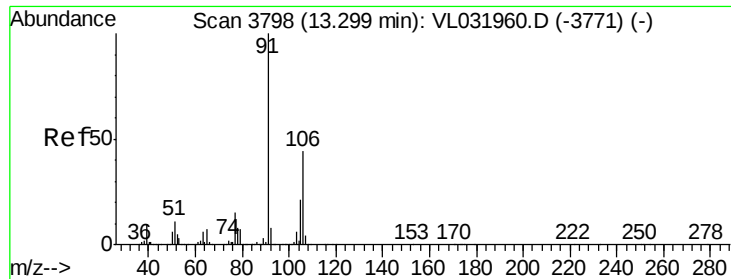
Ion Ratio Lower Upper

117 100

82 68.6 51.6 77.4

119 32.7 44.2 66.4#





#59

m/p-Xylene

Concen: 0.29 ppbv m

RT: 13.27 min Scan# 3788

Delta R.T. -0.03 min

Lab File: VL031983.D

Acq: 4 May 2018 4:45

Instrument :

MSVOA_L

ClientSampled :

SG3

Tot Ion: 91 Resp: 81099

Ion Ratio Lower Upper

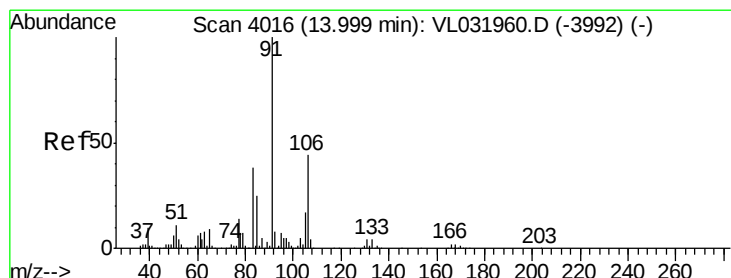
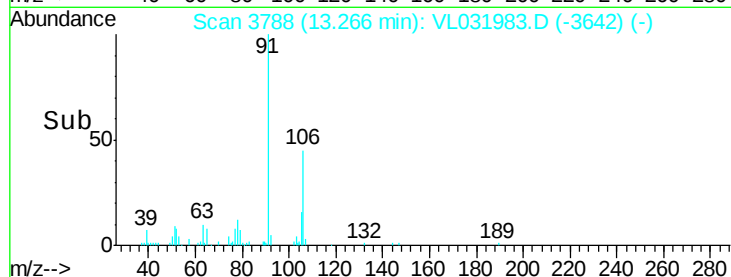
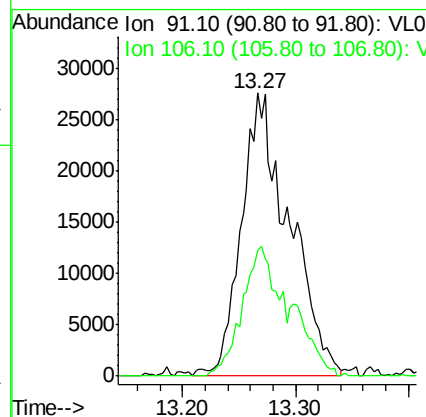
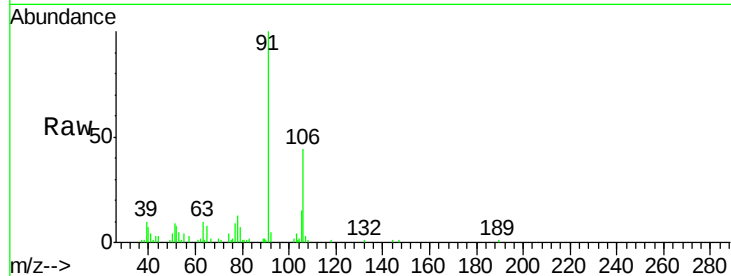
91 100

106 0.0 35.9 53.9#

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#60

o-Xylene

Concen: 0.13 ppbv m

RT: 13.99 min Scan# 4014

Delta R.T. -0.01 min

Lab File: VL031983.D

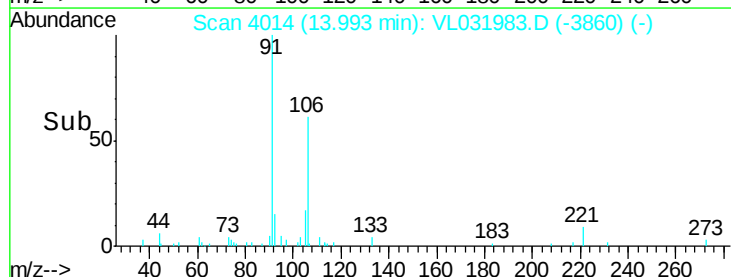
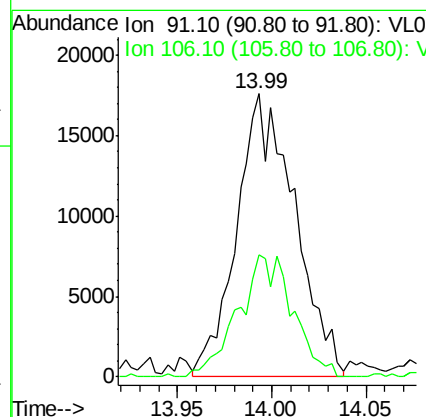
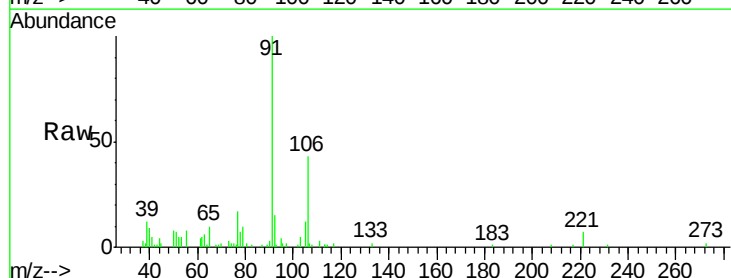
Acq: 4 May 2018 4:45

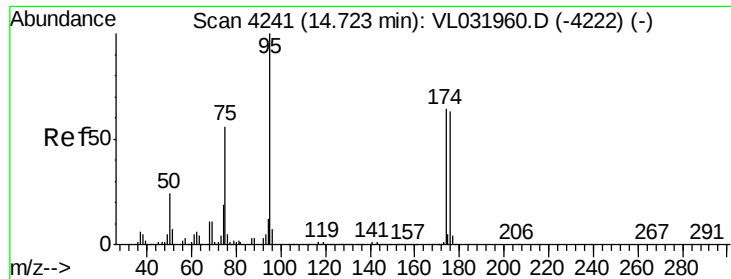
Tgt Ion: 91 Resp: 37709

Ion Ratio Lower Upper

91 100

106 0.0 21.5 64.5#





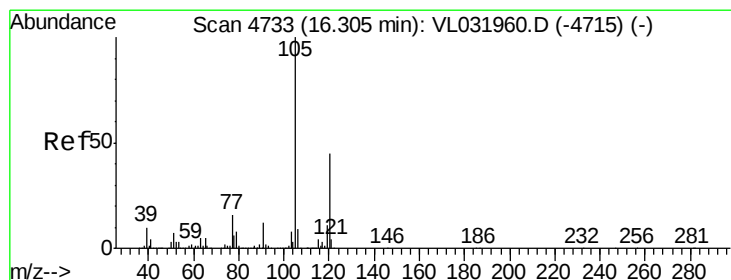
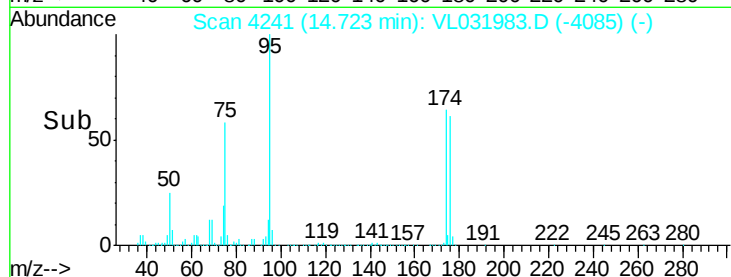
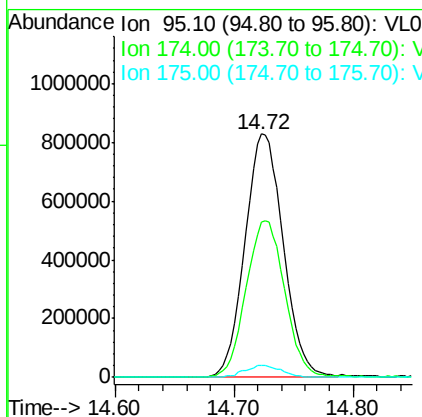
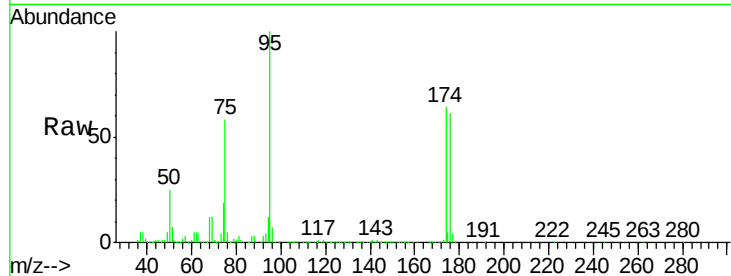
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.22 ppbv
 RT: 14.72 min Scan# 4241
 Delta R.T. 0.00 min
 Lab File: VL031983.D
 Acq: 4 May 2018 4:45

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Tot Ion: 95 Resp: 1849213
 Ion Ratio Lower Upper
 95 100
 174 65.2 53.0 79.6
 175 4.8 3.9 5.9

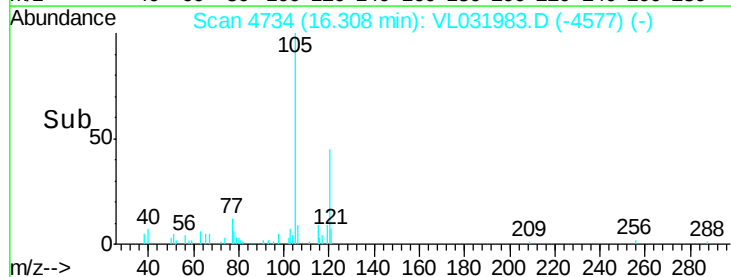
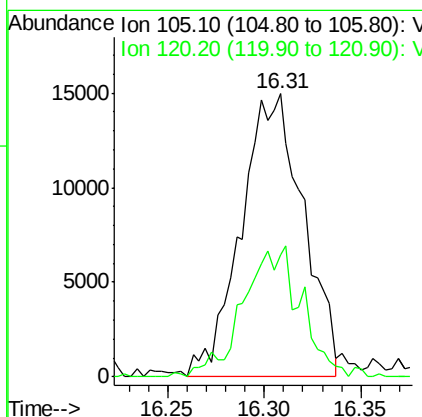
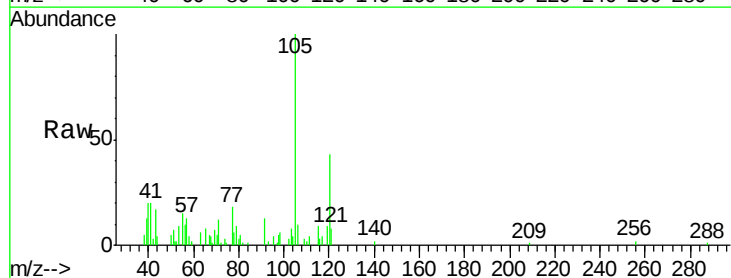
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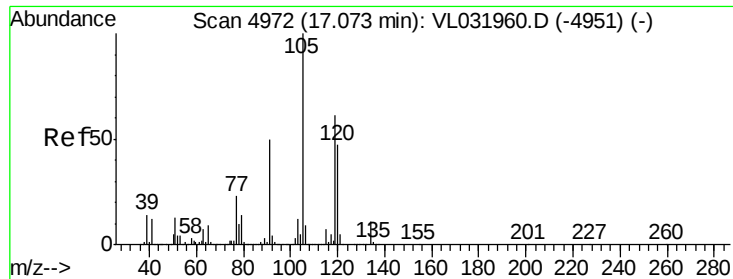
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.13 ppbv m
 RT: 16.31 min Scan# 4734
 Delta R.T. 0.00 min
 Lab File: VL031983.D
 Acq: 4 May 2018 4:45

Tgt Ion: 105 Resp: 33540
 Ion Ratio Lower Upper
 105 100
 120 43.3 36.0 54.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.34 ppbv
 RT: 17.08 min Scan# 4974
 Delta R.T. 0.01 min
 Lab File: VL031983.D
 Acq: 4 May 2018 4:45

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	30.7	37.8	56.6#
91	11.8	40.5	60.7#
77	12.6	18.2	27.2#

Manual Integrations
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MMDadoda
 5/4/2018 5:01:19 PM

