

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032279.D
 Acq On : 19 Jul 2018 3:08
 Operator : SY/AP
 Sample : J3454-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-9

Manual Integrations
 APPROVED

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 7/20/2018 2:53:25 PM

Quant Time: Jul 19 04:42:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 14:38:53 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1707028	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3311337	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4004084	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3168488	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	142381	0.49	ppbv	97
3) Chlorodifluoromethane	3.06	51	90275m	0.47	ppbv	
4) Chloromethane	3.22	50	63631	0.56	ppbv	98
10) Heptane	8.33	43	26875m	0.10	ppbv	
11) Trichlorofluoromethane	4.07	101	54630m	0.24	ppbv	
13) Ethanol	3.71	45	1797819	75.16	ppbv	98
15) Acetone	3.96	43	1550898	8.68	ppbv	96
17) tert-Butyl alcohol	4.45	59	15322m	0.27	ppbv	
19) Isopropyl Alcohol	4.10	45	360698	2.98	ppbv #	1
20) Methylene Chloride	4.47	84	85703	1.25	ppbv	91
26) Hexane	5.86	57	198580	1.11	ppbv #	59
34) 2-Butanone	5.41	43	148752	0.65	ppbv	97
35) Carbon Tetrachloride	7.22	117	16056m	0.07	ppbv	
53) Toluene	10.03	91	101193	0.26	ppbv	98
59) m/p-Xylene	13.21	91	87340m	0.18	ppbv	

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

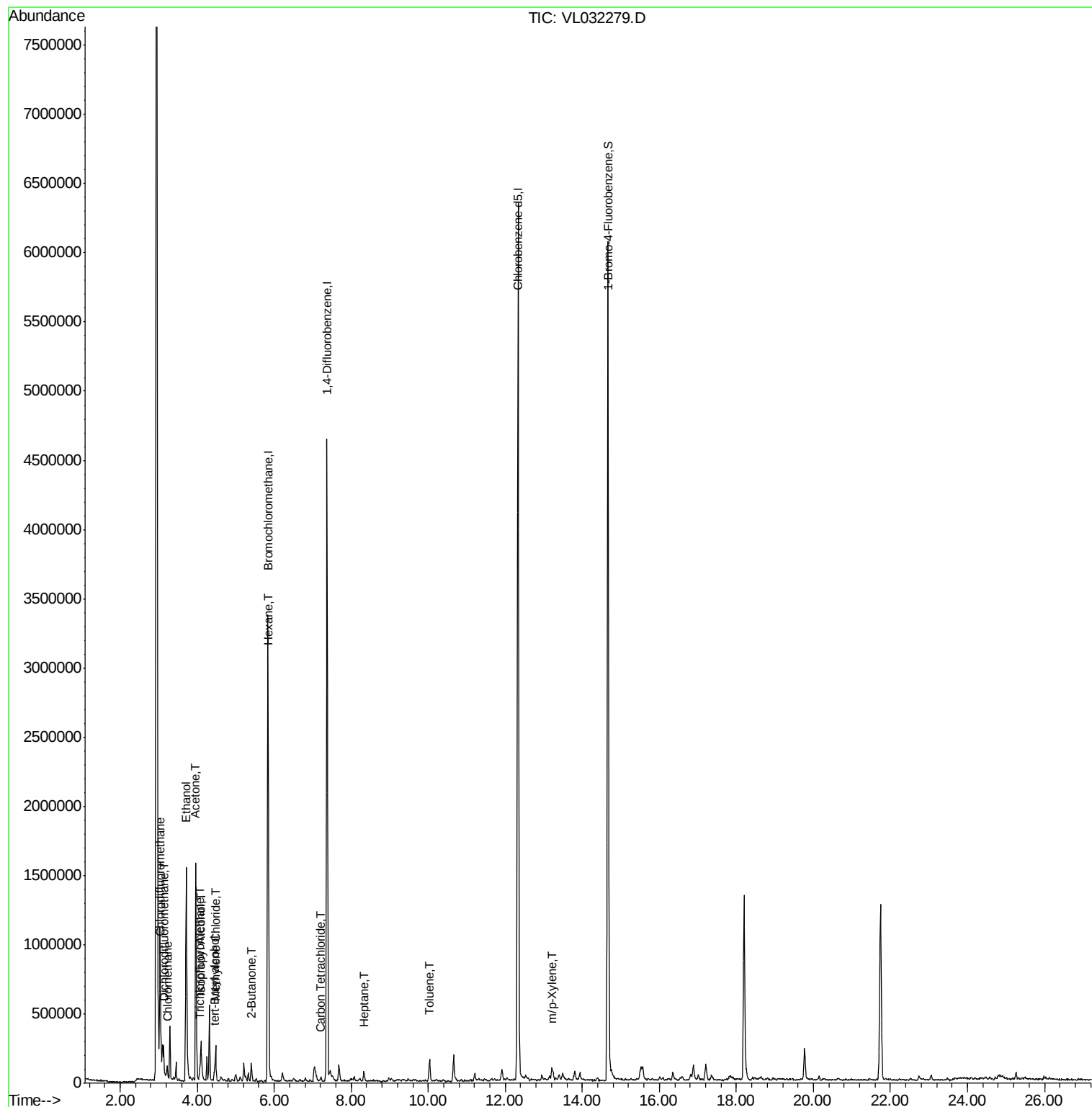
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
Data File : VL032279.D
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Misc : 400ml/MSVOA L
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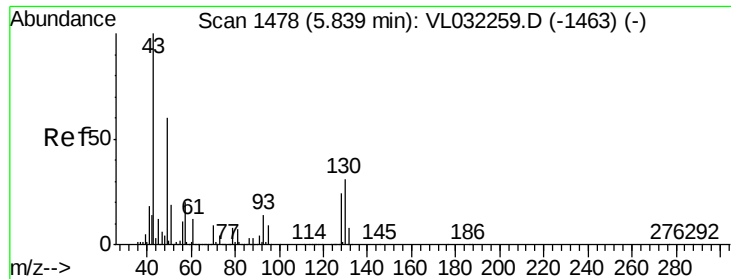
Instrument :
MSVOA_L
ClientSampleId :
B-9

Manual Integrations
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Quant Time: Jul 19 04:42:06 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 14:38:53 2018
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VL032279.D

Acq: 19 Jul 2018 3:08

Instrument :

MSVOA_L

ClientSampleId :

B-9

Tot Ion: 49 Resp: 1707028

Ion Ratio Lower Upper

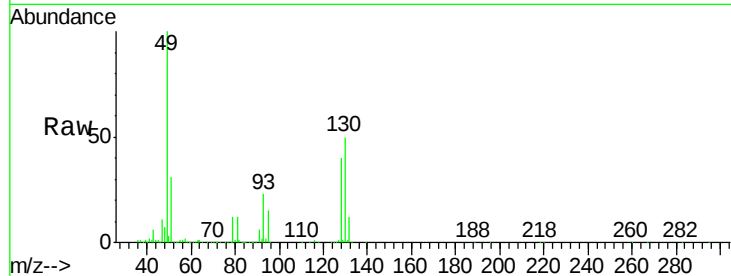
49 100

128 39.6 20.1 60.2

130 50.4 25.9 77.6

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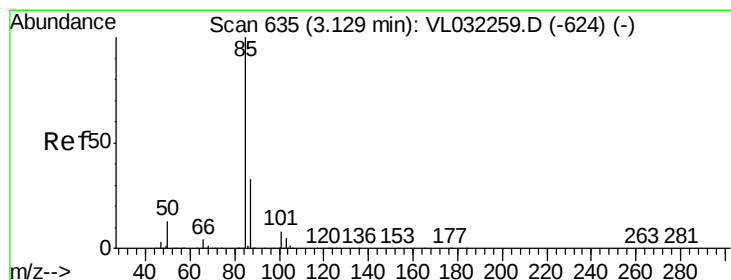
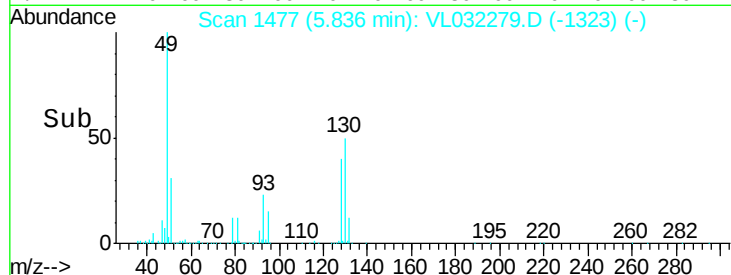
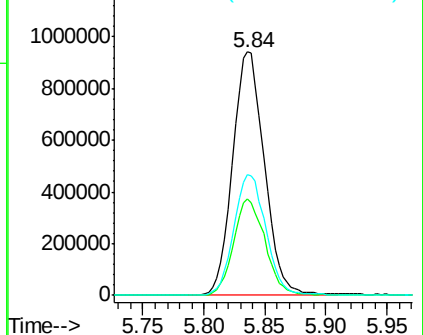
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.49 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032279.D

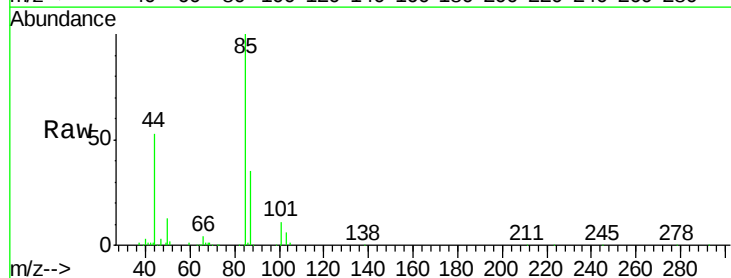
Acq: 19 Jul 2018 3:08

Tgt Ion: 85 Resp: 142381

Ion Ratio Lower Upper

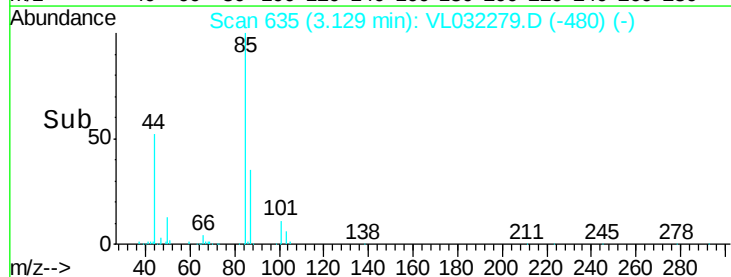
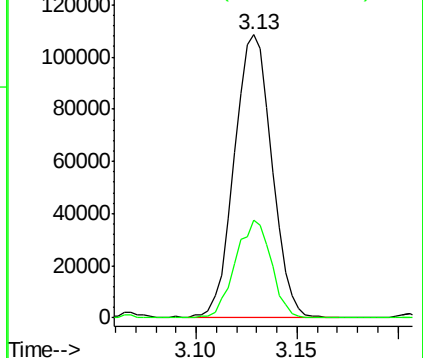
85 100

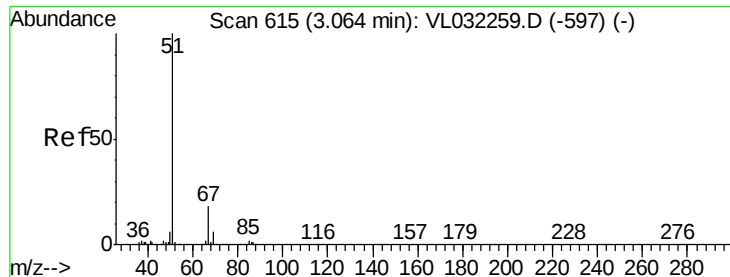
87 34.7 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.47 ppbv m

RT: 3.06 min Scan# 613

Delta R.T. -0.01 min

Lab File: VL032279.D

Acq: 19 Jul 2018 3:08

Instrument :

MSVOA_L

ClientSampleId :

B-9

Tot Ion: 51 Resp: 90275

Ion Ratio Lower Upper

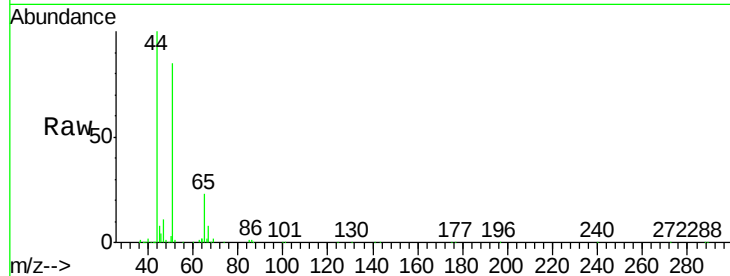
51 100

67 19.3 14.2 21.4

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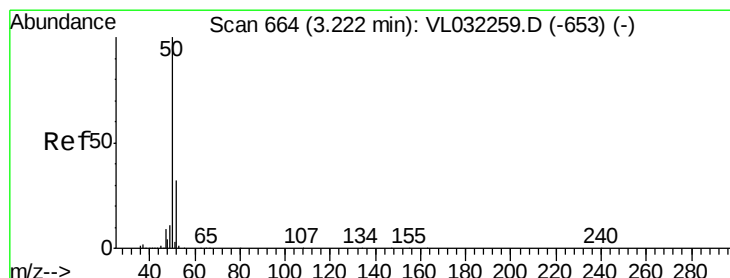
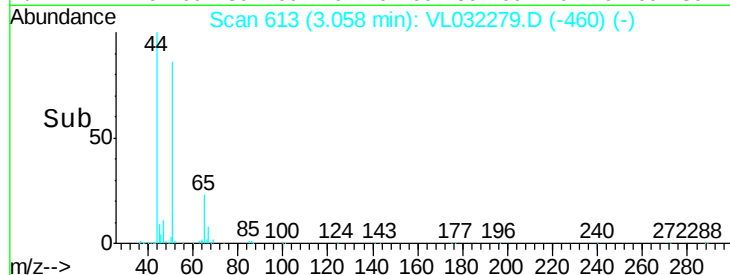
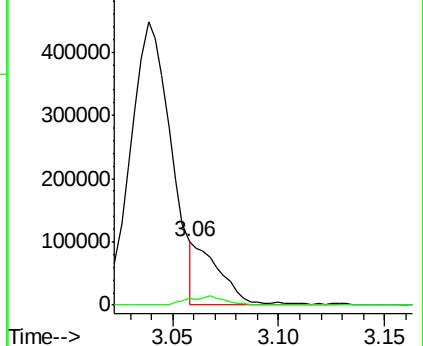
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.56 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032279.D

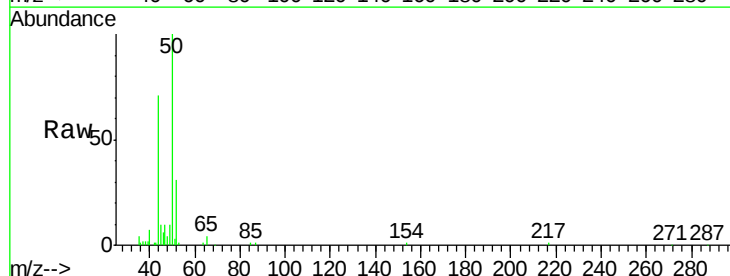
Acq: 19 Jul 2018 3:08

Tgt Ion: 50 Resp: 63631

Ion Ratio Lower Upper

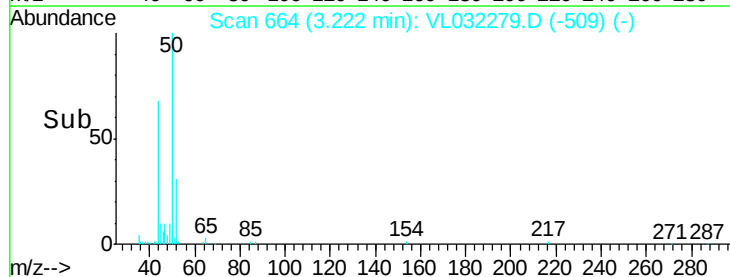
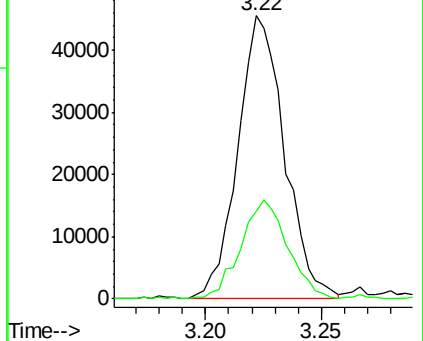
50 100

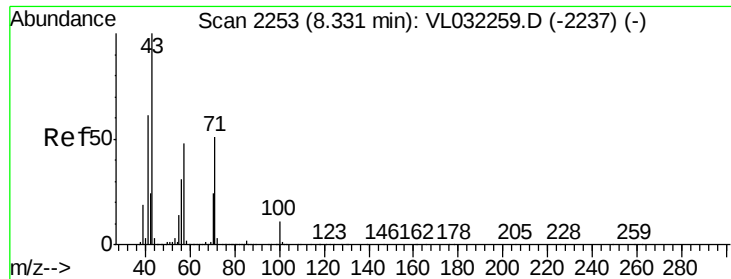
52 30.7 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#10

Heptane

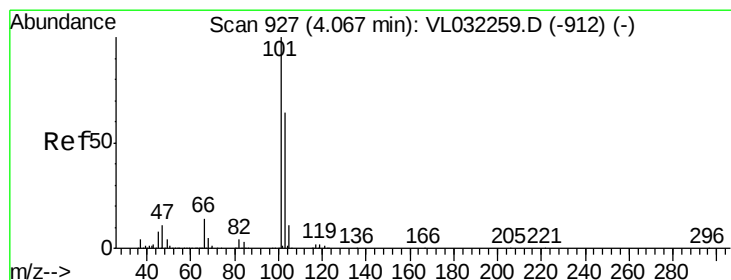
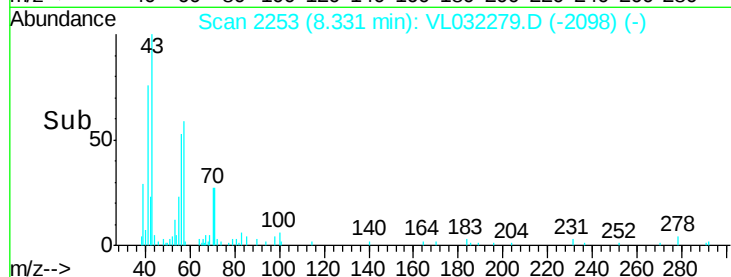
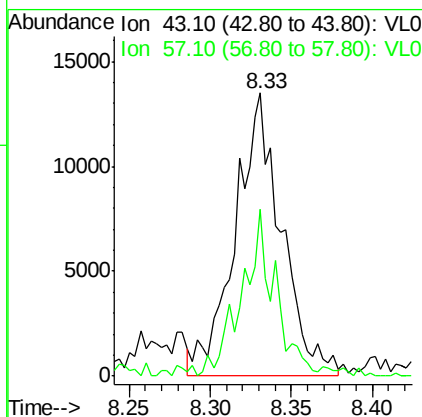
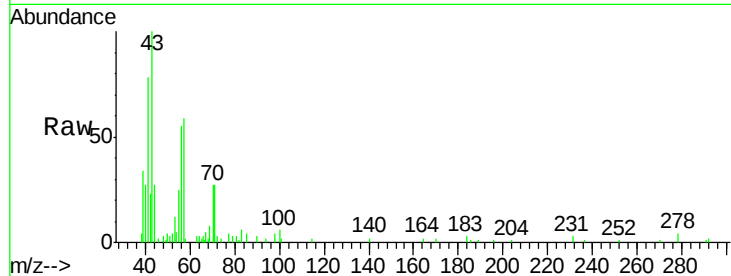
Concen: 0.10 ppbv m
RT: 8.33 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VL032279.D
Acq: 19 Jul 2018 3:08

Instrument :
MSVOA_L
ClientSampleId :
B-9

Tot Ion: 43 Resp: 26875
Ion Ratio Lower Upper
43 100
57 45.8 39.9 59.9

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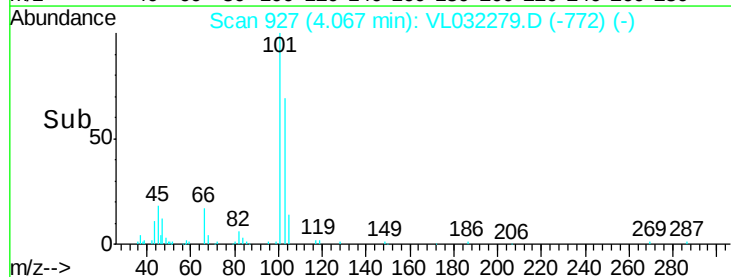
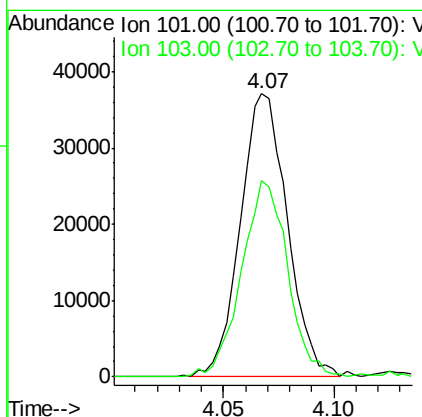
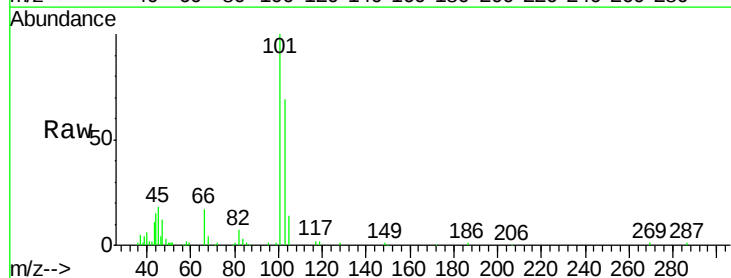


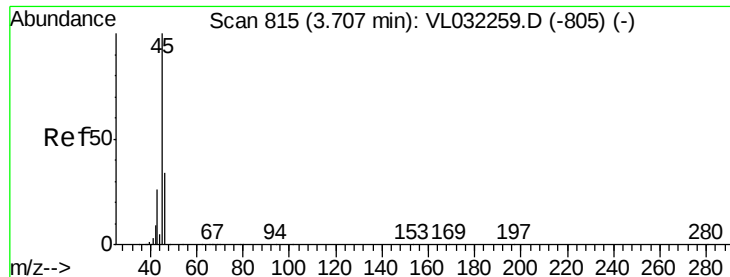
#11

Trichlorofluoromethane

Concen: 0.24 ppbv m
RT: 4.07 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL032279.D
Acq: 19 Jul 2018 3:08

Tgt Ion: 101 Resp: 54630
Ion Ratio Lower Upper
101 100
103 69.5 51.5 77.3





#13

Ethanol

Concen: 75.16 ppbv

RT: 3.71 min Scan# 816

Delta R.T. 0.00 min

Lab File: VL032279.D

Acq: 19 Jul 2018 3:08

Instrument :

MSVOA_L

ClientSampled :

B-9

Tot Ion: 45 Resp: 1797819

Ion Ratio Lower Upper

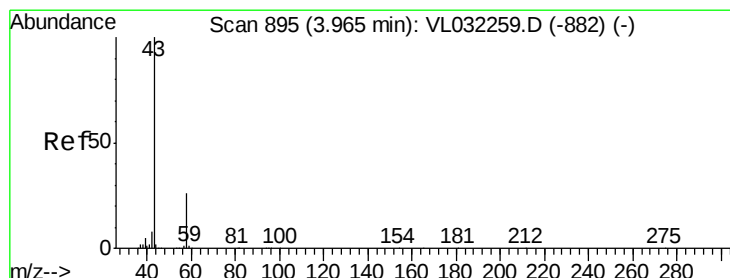
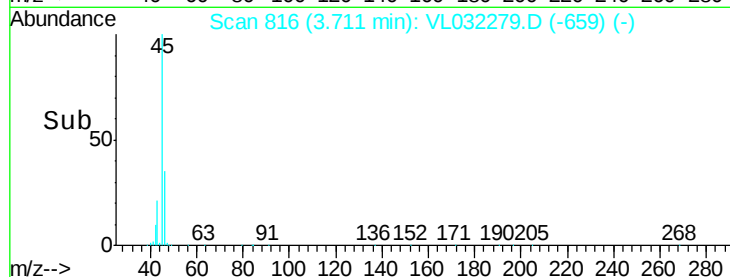
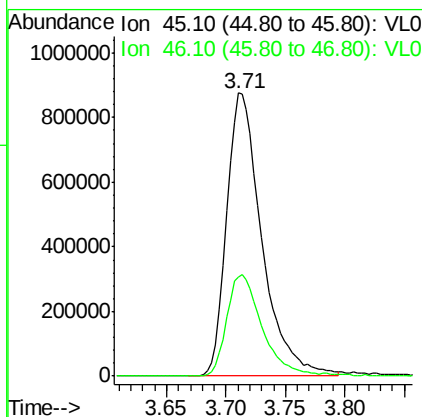
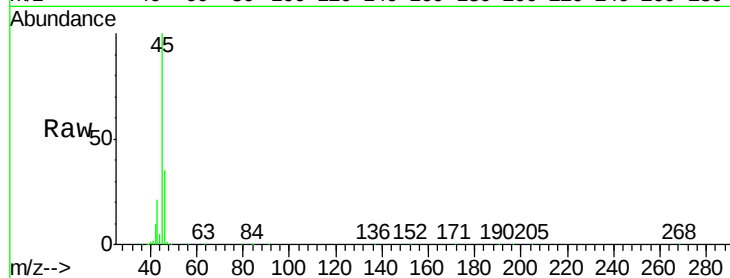
45 100

46 36.6 15.2 60.8

Manual Integrations
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#15

Acetone

Concen: 8.68 ppbv

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL032279.D

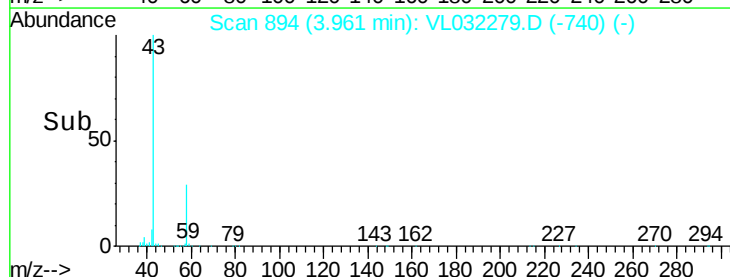
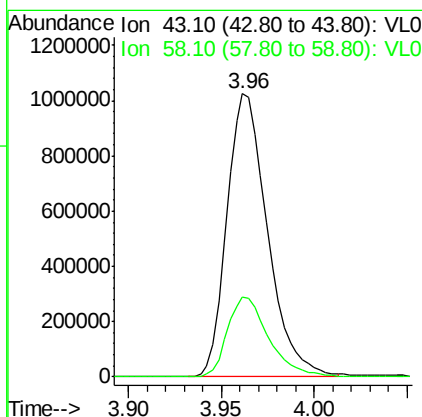
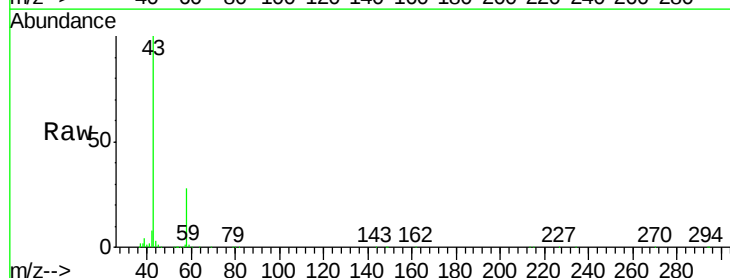
Acq: 19 Jul 2018 3:08

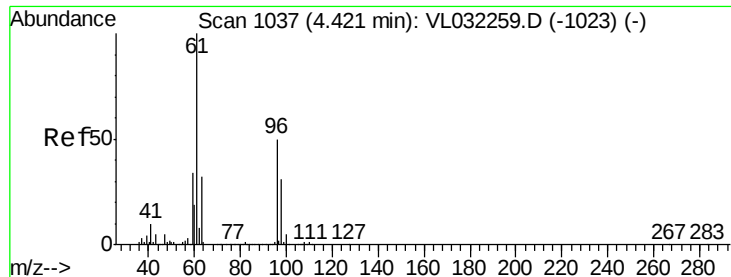
Tgt Ion: 43 Resp: 1550898

Ion Ratio Lower Upper

43 100

58 29.1 21.8 32.6





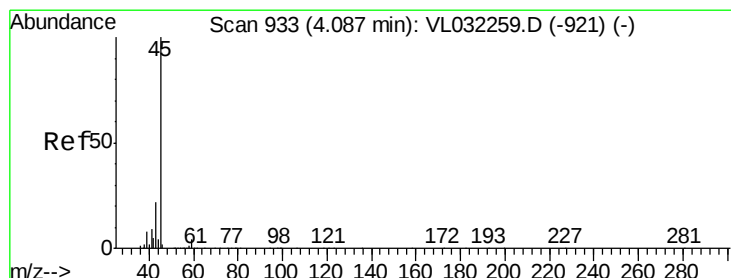
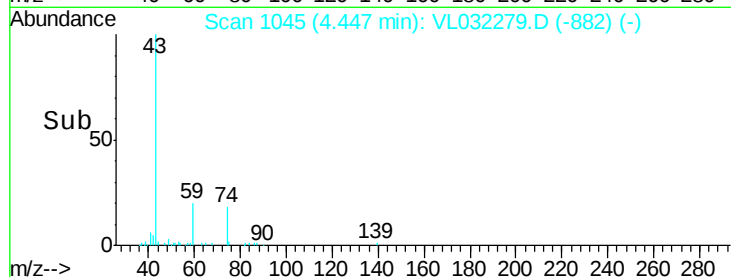
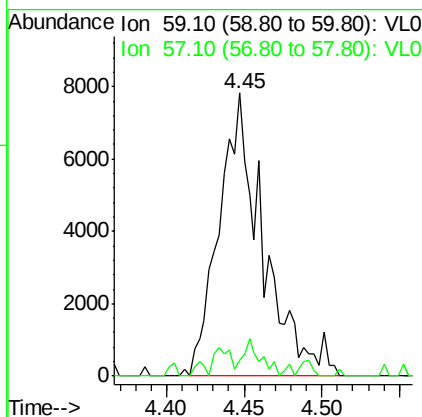
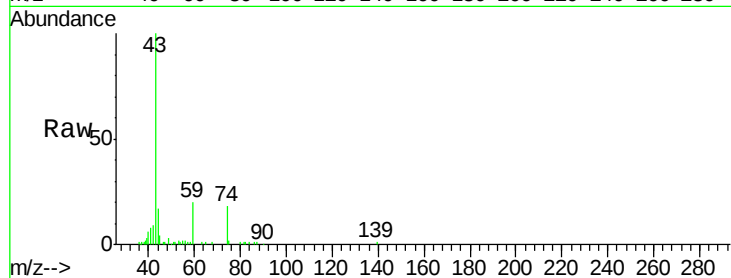
#17
 tert-Butyl alcohol
 Concen: 0.27 ppbv m
 RT: 4.45 min Scan# 1045
 Delta R.T. 0.03 min
 Lab File: VL032279.D
 Acq: 19 Jul 2018 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 B-9

Tot Ion: 59 Resp: 15322
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

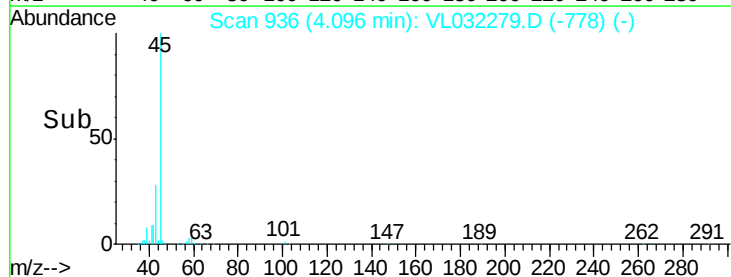
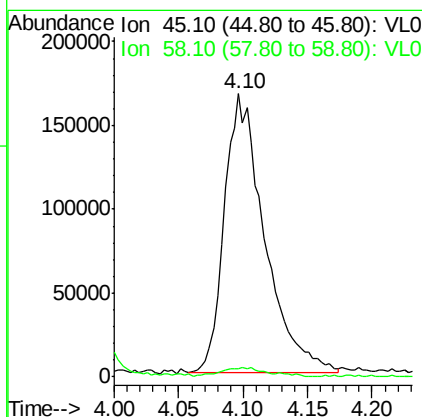
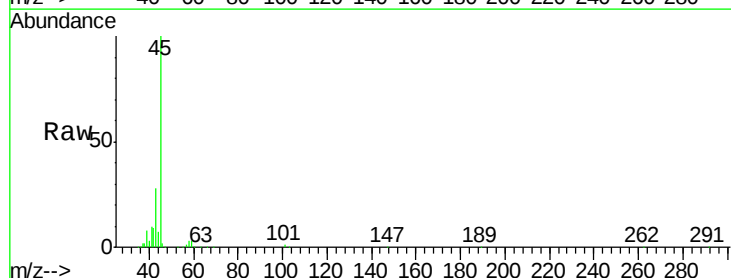
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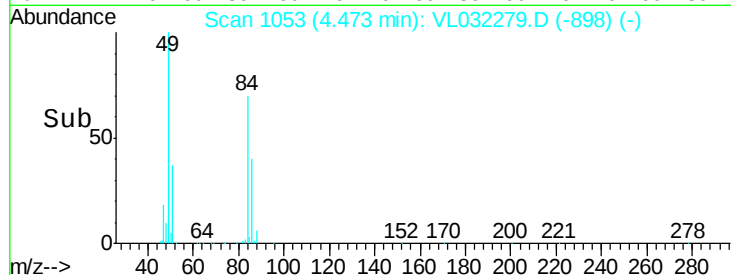
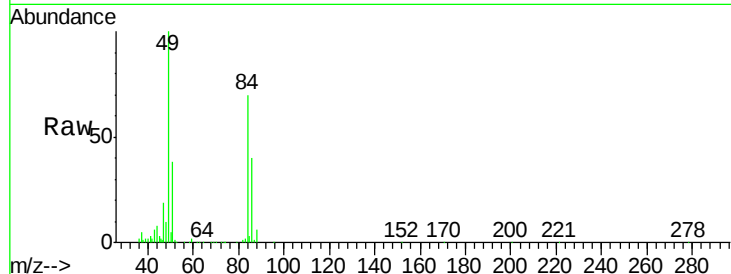
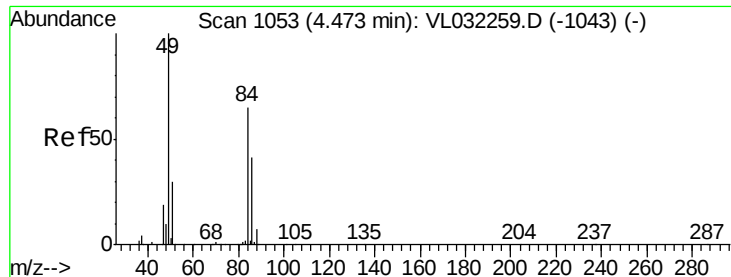
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#19
 Isopropyl Alcohol
 Concen: 2.98 ppbv
 RT: 4.10 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VL032279.D
 Acq: 19 Jul 2018 3:08

Tgt Ion: 45 Resp: 360698
 Ion Ratio Lower Upper
 45 100
 58 124.6 1.5 2.3#





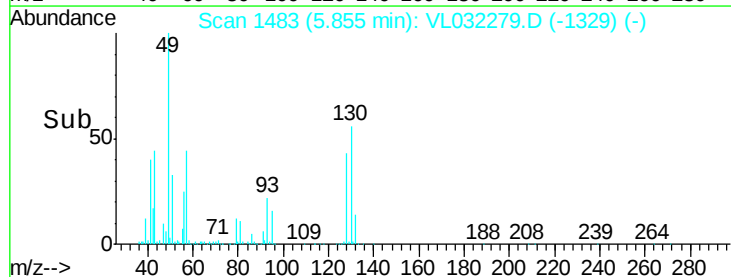
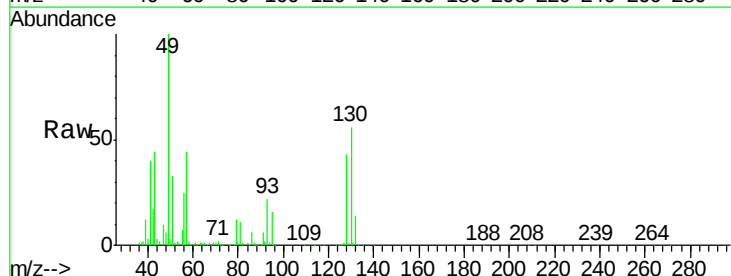
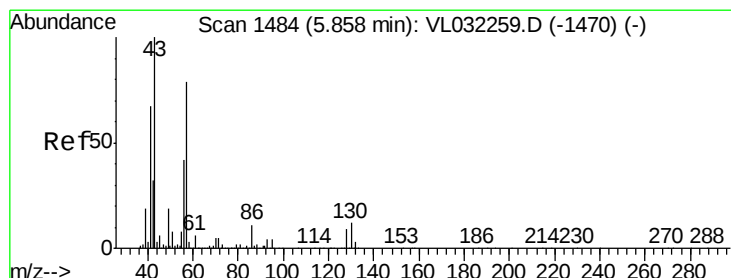
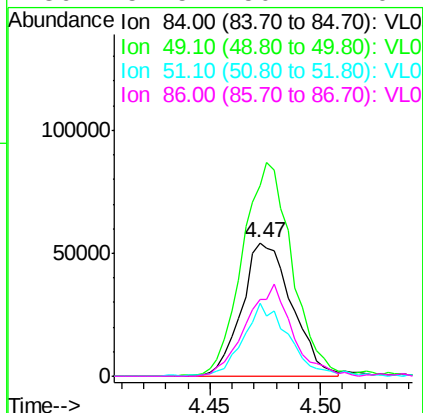
#20
Methvlene Chloride
Concen: 1.25 ppbv
RT: 4.47 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VL032279.D
Acq: 19 Jul 2018 3:08

Tot Ion	84	Resp	85703
Ion	Ratio	Lower	Upper
84	100		
49	142.4	122.4	183.6
51	54.7	36.8	55.2
86	57.5	50.7	76.1

Instrument :
MSVOA_L
ClientSampled :
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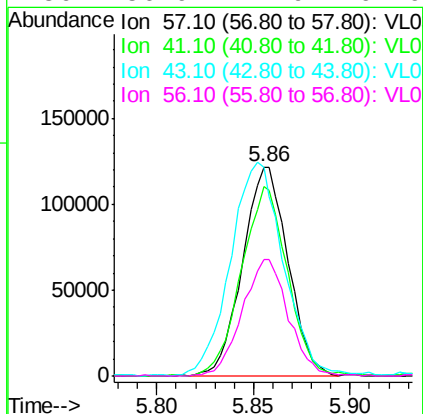
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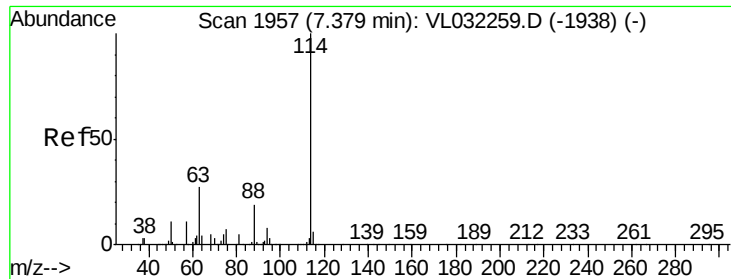
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#26
Hexane
Concen: 1.11 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032279.D
Acq: 19 Jul 2018 3:08

Tgt Ion	57	Resp	198580
Ion	Ratio	Lower	Upper
57	100		
41	92.6	67.9	101.9
43	120.4	175.9	263.9#
56	56.9	41.9	62.9





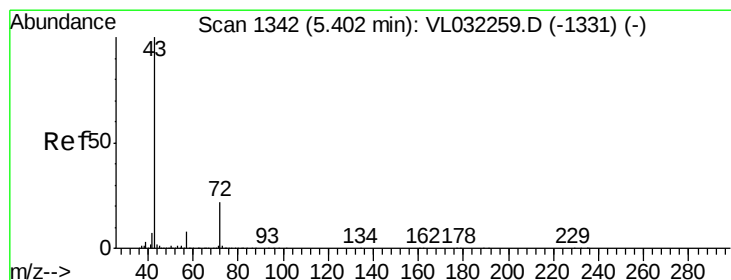
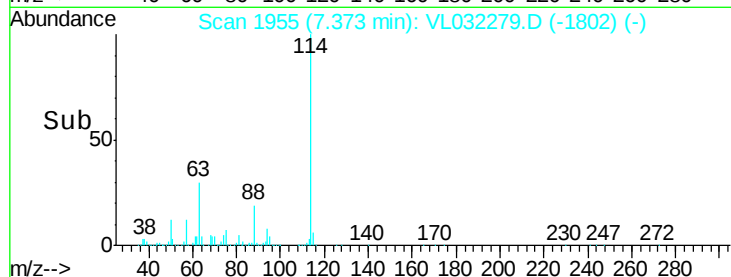
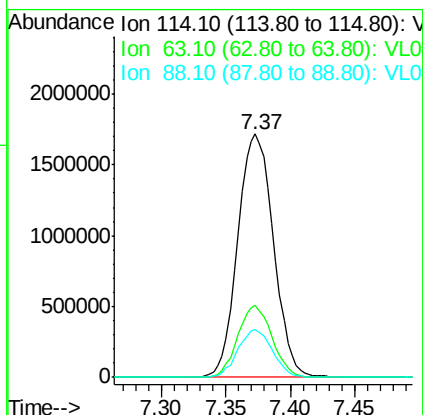
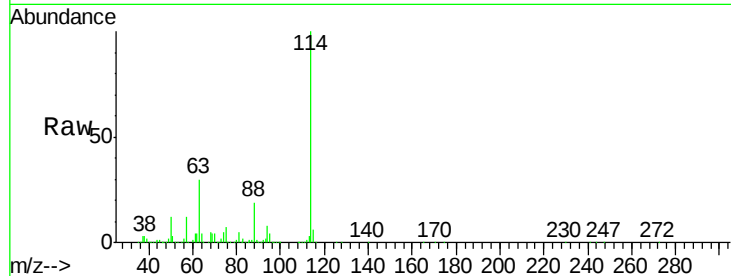
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.37 min Scan# 1955
 Delta R.T. -0.01 min
 Lab File: VL032279.D
 Acq: 19 Jul 2018 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 B-9

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.8	22.6	33.8
88	19.1	15.2	22.8

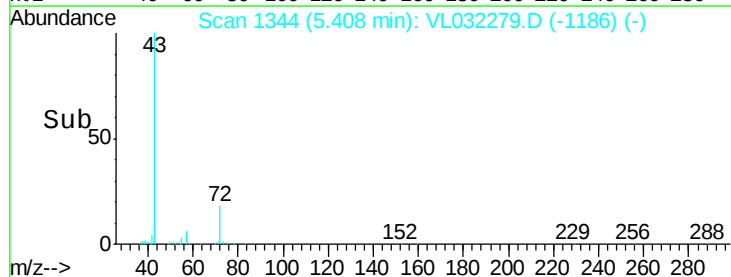
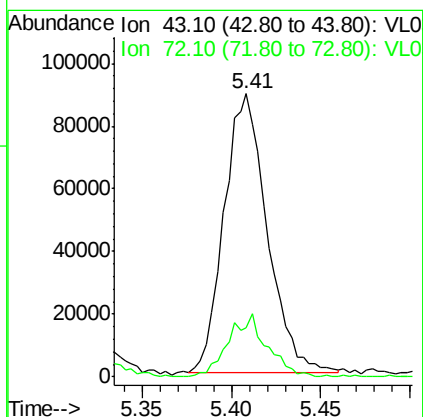
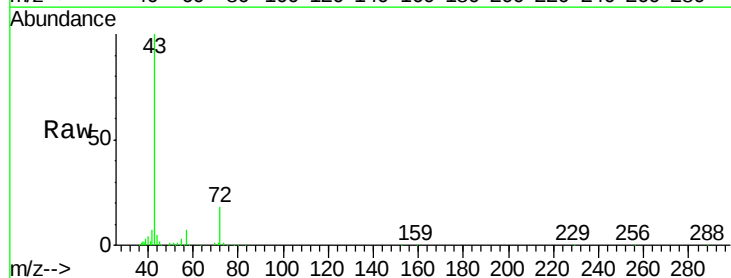
Manual Integrations
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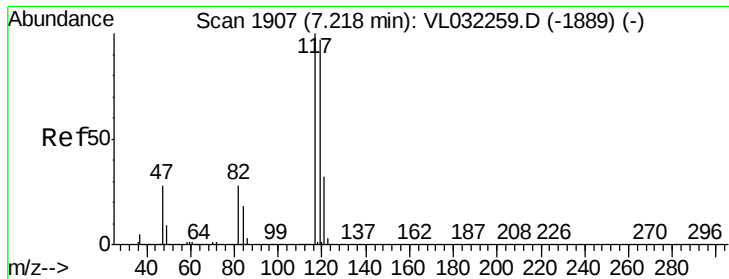
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#34
 2-Butanone
 Concen: 0.65 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. 0.01 min
 Lab File: VL032279.D
 Acq: 19 Jul 2018 3:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.7	17.7	26.5





#35

Carbon Tetrachloride

Concen: 0.07 ppbv m

RT: 7.22 min Scan# 1906

Delta R.T. -0.00 min

Lab File: VL032279.D

Acq: 19 Jul 2018 3:08

Instrument :

MSVOA_L

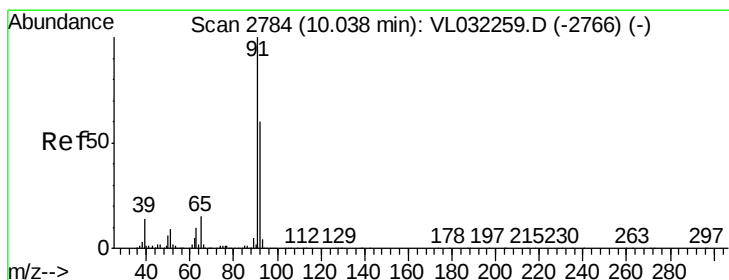
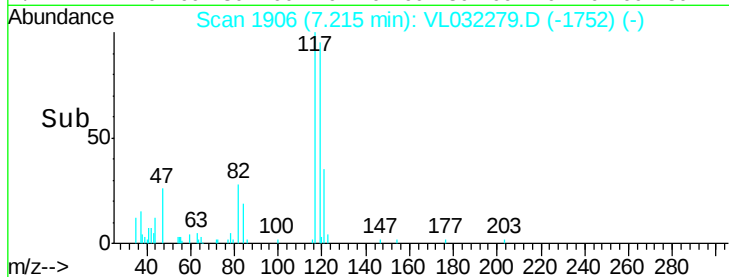
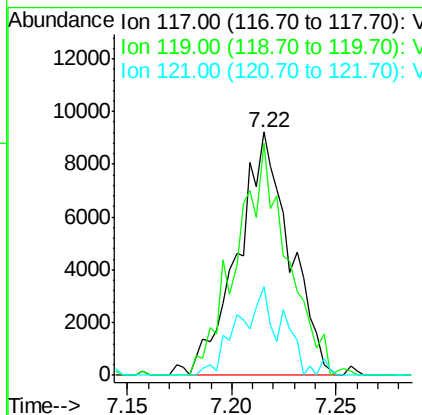
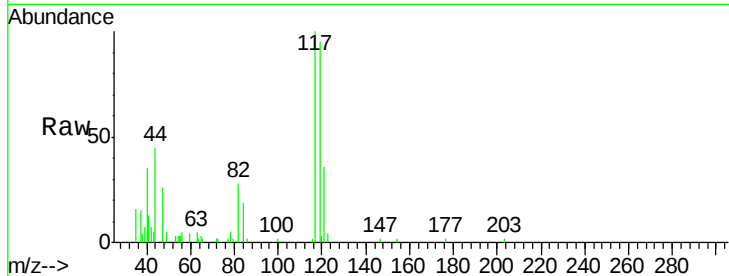
ClientSampleId :

B-9

Tot Ion:	117	Resp:	16056
Ion Ratio	Lower	Upper	
117	100		
119	95.4	77.4	116.0
121	36.3	25.4	38.2

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#53

Toluene

Concen: 0.26 ppbv

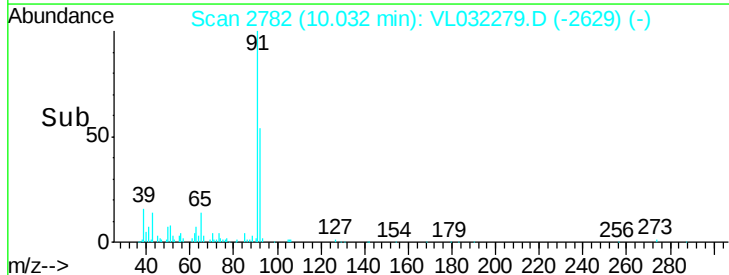
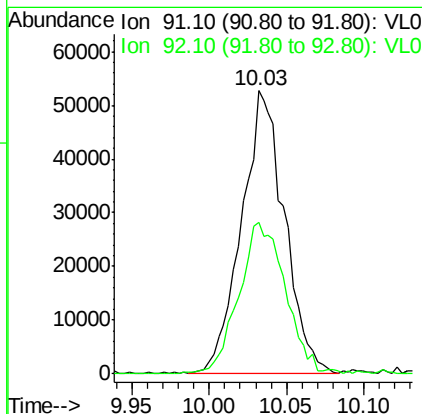
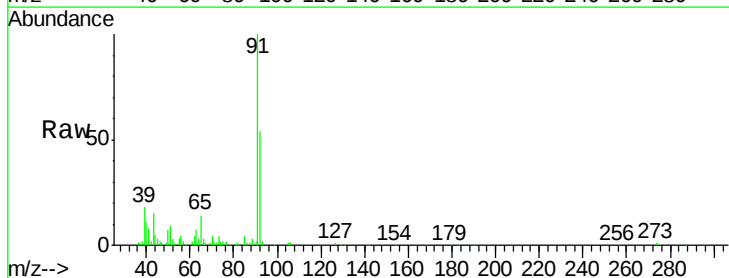
RT: 10.03 min Scan# 2782

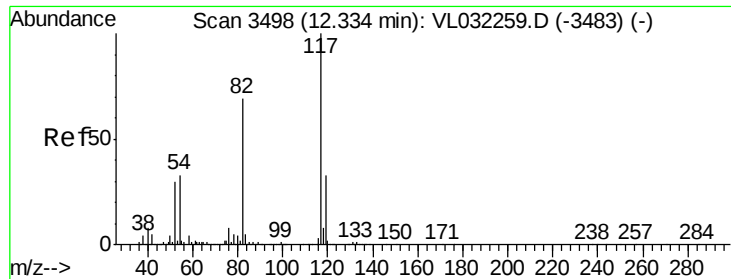
Delta R.T. -0.01 min

Lab File: VL032279.D

Acq: 19 Jul 2018 3:08

Tgt Ion:	91	Resp:	101193
Ion Ratio	Lower	Upper	
91	100		
92	59.3	48.6	72.8





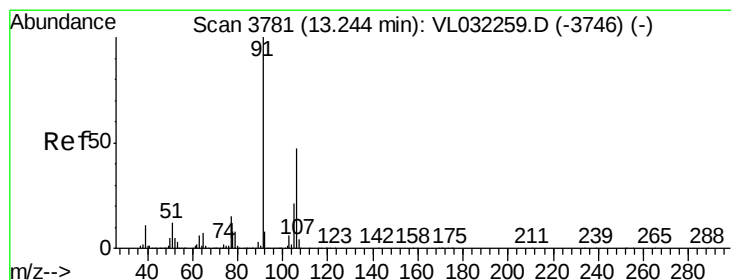
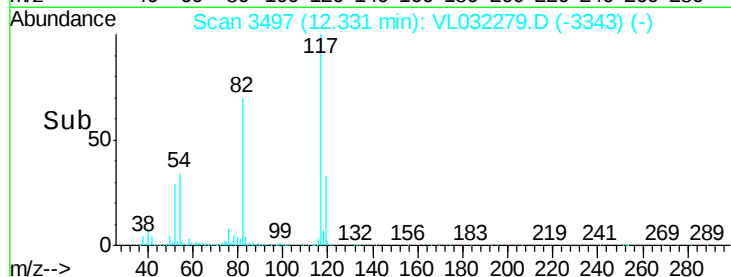
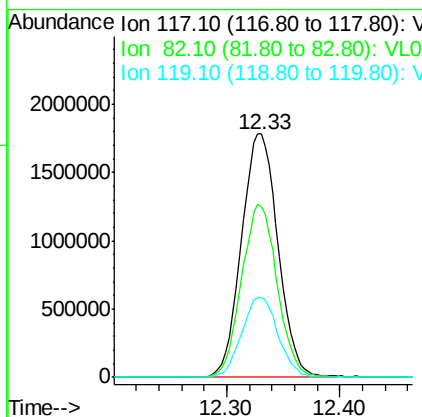
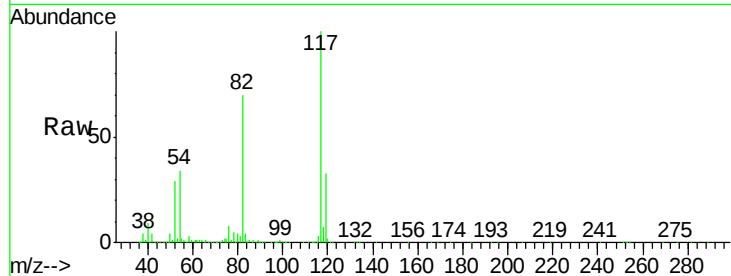
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3497
Delta R.T. -0.00 min
Lab File: VL032279.D
Acq: 19 Jul 2018 3:08

Instrument :
MSVOA_L
ClientSampleId :
B-9

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.7	53.9	80.9
119	32.9	25.5	38.3

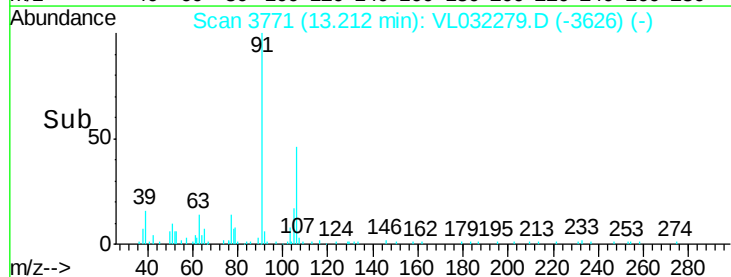
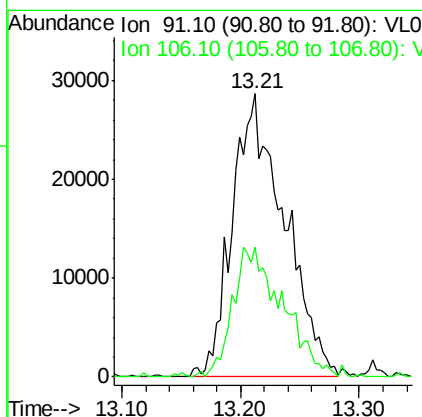
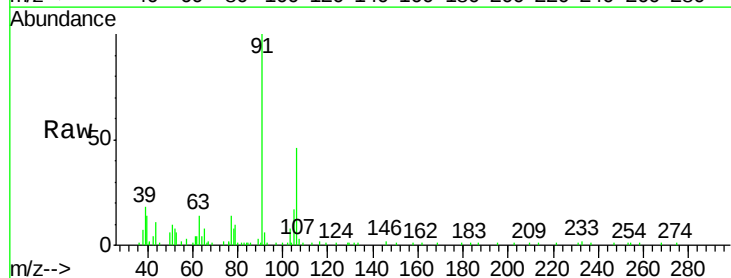
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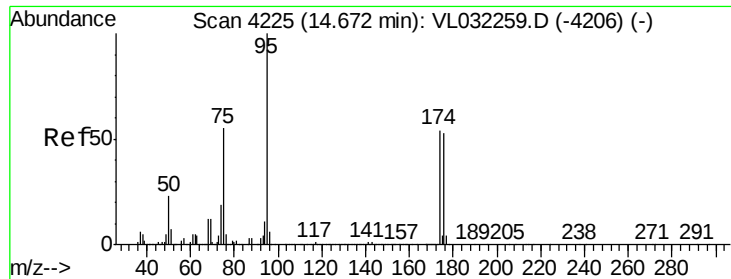
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#59
m/p-Xylene
Concen: 0.18 ppbv m
RT: 13.21 min Scan# 3771
Delta R.T. -0.03 min
Lab File: VL032279.D
Acq: 19 Jul 2018 3:08

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.2	54.2#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.76 ppbv
 RT: 14.67 min Scan# 4223
 Delta R.T. -0.01 min
 Lab File: VL032279.D
 Acq: 19 Jul 2018 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 B-9

Tot Ion	Ratio	Lower	Upper
95	100		
174	55.7	44.3	66.5
175	4.1	3.3	4.9

Manual Integrations
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