

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081618\
 Data File : VL032400.D
 Acq On : 17 Aug 2018 9:27
 Operator : SY/AP
 Sample : J4472-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
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Quant Time: Aug 29 12:07:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1748359	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3426800	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3369058	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2615172	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.12	85	70107	0.393	ppbv	89
3) Chlorodifluoromethane	3.05	51	211570	1.306	ppbv	96
4) Chloromethane	3.21	50	40942	0.425	ppbv	91
9) Propene	3.07	41	5556144	80.158	ppbv	98
11) Trichlorofluoromethane	4.05	101	245100	1.253	ppbv	100
13) Ethanol	3.69	45	238938	13.422	ppbv	97
15) Acetone	3.95	43	1003228	6.040	ppbv	97
17) tert-Butyl alcohol	4.41	59	32144	1.153	ppbv #	89
19) Isopropyl Alcohol	4.06	45	1153251	10.310	ppbv #	98
20) Methylene Chloride	4.45	84	51244	0.817	ppbv	88
26) Hexane	5.83	57	96992	0.611	ppbv #	75
27) Carbon Disulfide	4.67	76	19354	0.131	ppbv #	61
29) Chloroform	5.90	83	22788	0.098	ppbv	96
34) 2-Butanone	5.38	43	473964	2.032	ppbv	97
35) Carbon Tetrachloride	7.19	117	17667m	0.087	ppbv	
36) Benzene	7.06	78	494805	1.703	ppbv	99
38) Trichloroethene	8.02	130	33820m	0.332	ppbv	
44) 2,2,4-Trimethylpentane	8.05	57	132907	0.254	ppbv #	70
50) 4-Methyl-2-Pentanone	8.95	43	79475m	0.236	ppbv	
52) Tetrachloroethene	11.44	164	54789	0.639	ppbv	87
53) Toluene	10.01	91	590203	1.853	ppbv	99
58) Ethyl Benzene	12.93	91	57026m	0.141	ppbv	
59) m/p-Xylene	13.19	91	171131	0.497	ppbv	99
60) o-Xylene	13.91	91	75059	0.222	ppbv	98
61) Styrene	13.76	104	54272	0.229	ppbv	94
74) 1,2,4-Trimethylbenzene	16.99	105	110010	0.285	ppbv #	72
76) 1,4-Dichlorobenzene	17.38	146	7032256	31.977	ppbv	99
79) Naphthalene	22.48	128	64729m	0.230	ppbv	

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

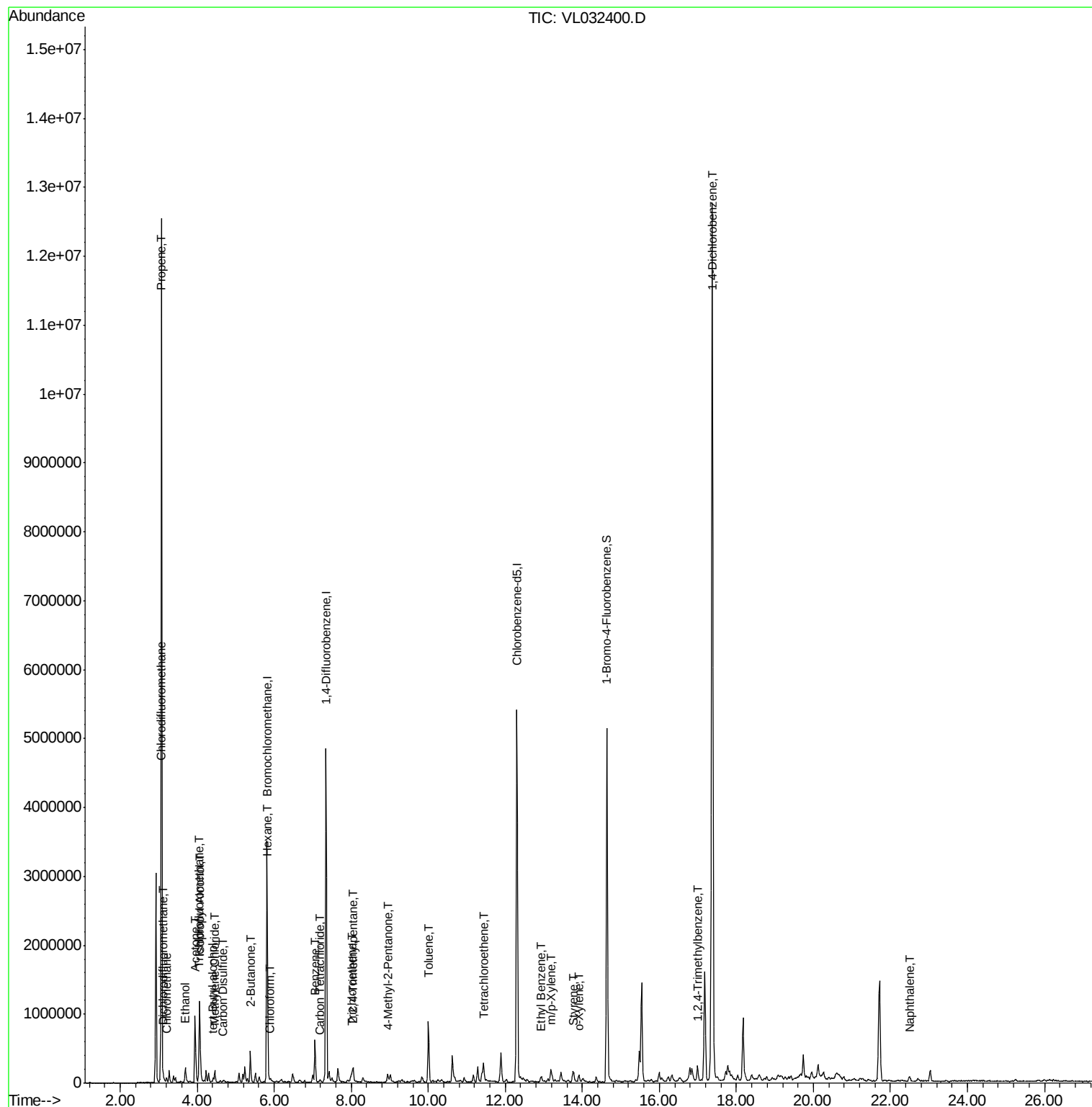
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081618\
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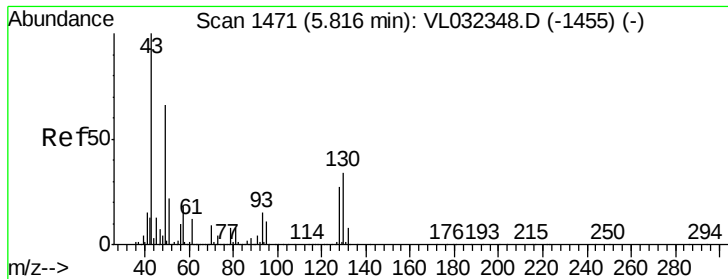
Instrument :
MSVOA_L
ClientSampleId :
SS-1

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Quant Time: Aug 29 12:07:56 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug
QLast Update : Tue Aug 28 13:07:12 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032400.D

Acq: 17 Aug 2018 9:27

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tgt Ion: 49 Resp: 1748359

Ion Ratio Lower Upper

49 100

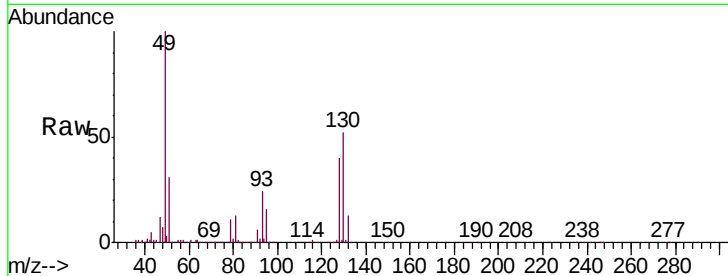
128 41.0 20.5 61.6

130 52.5 26.2 78.5

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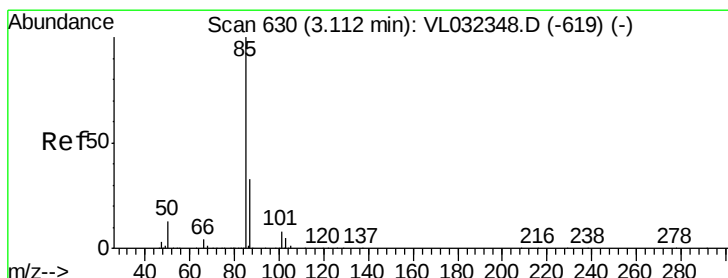
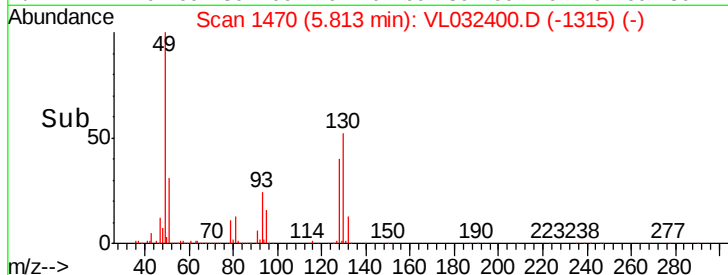
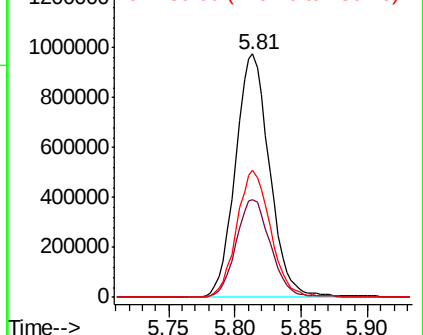
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.393 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL032400.D

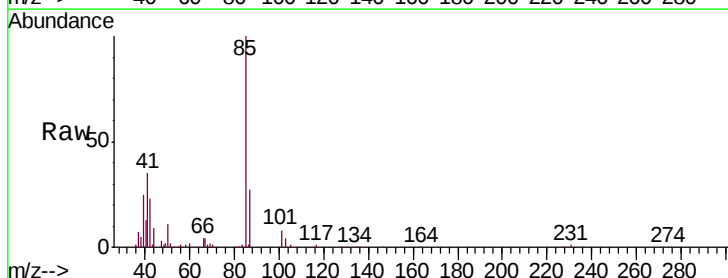
Acq: 17 Aug 2018 9:27

Tgt Ion: 85 Resp: 70107

Ion Ratio Lower Upper

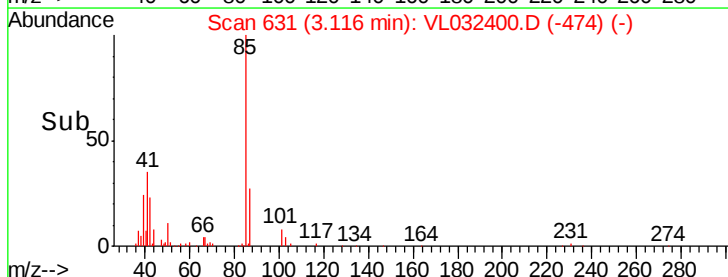
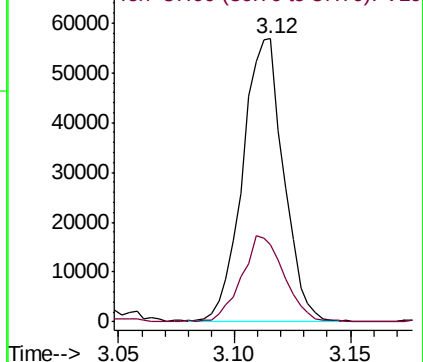
85 100

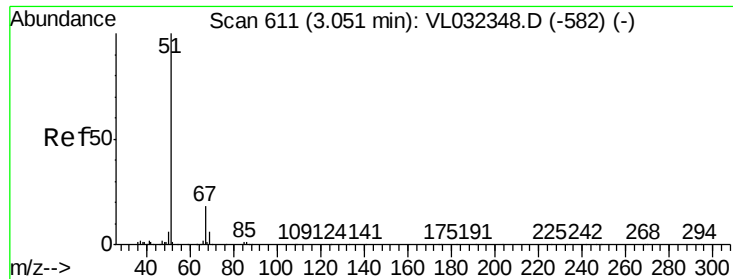
87 26.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.306 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032400.D

Acq: 17 Aug 2018 9:27

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 51 Resp: 211570

Ion Ratio Lower Upper

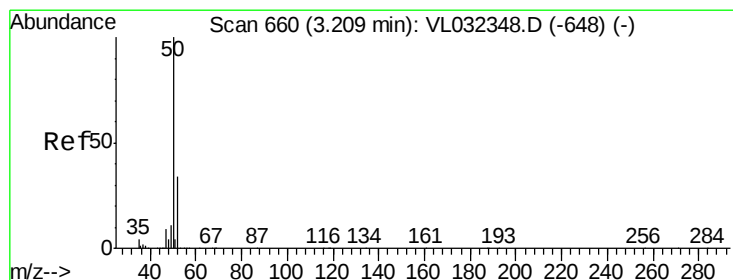
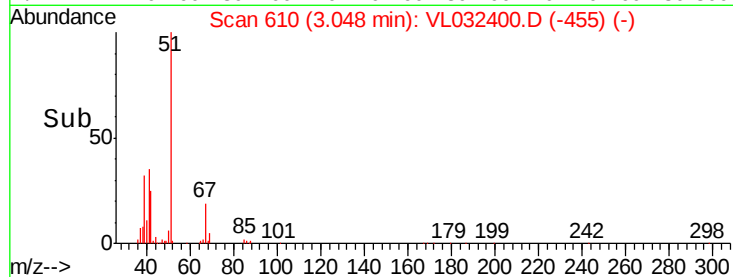
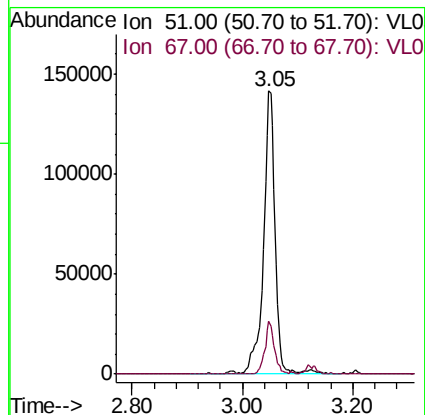
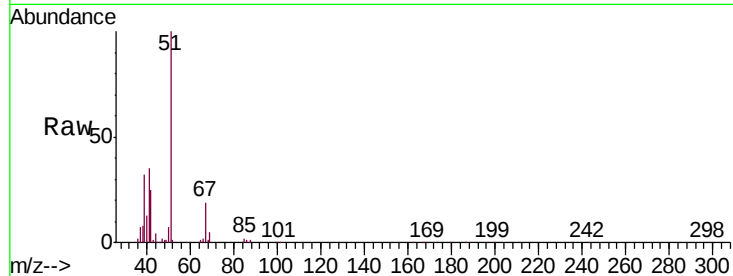
51 100

67 15.5 13.7 20.5

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#4

Chloromethane

Concen: 0.425 ppbv

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VL032400.D

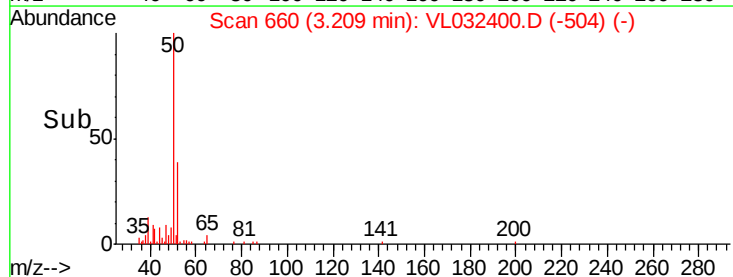
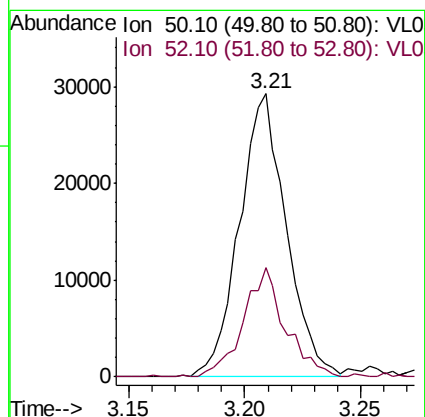
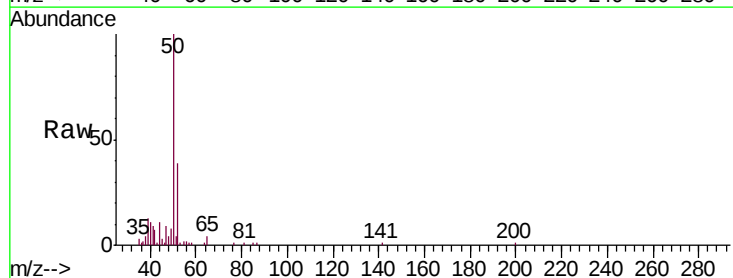
Acq: 17 Aug 2018 9:27

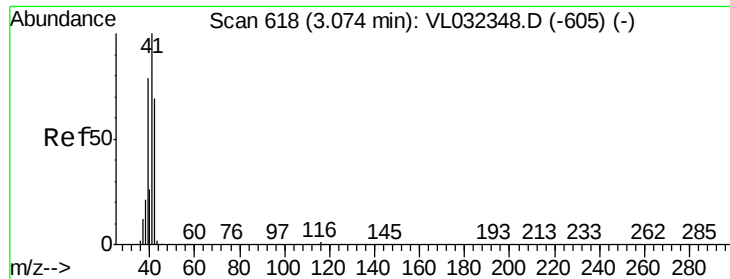
Tgt Ion: 50 Resp: 40942

Ion Ratio Lower Upper

50 100

52 38.8 26.8 40.2





#9

Propene

Concen: 80.158 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032400.D

Acq: 17 Aug 2018 9:27

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tgt Ion: 41 Resp: 5556144

Ion Ratio Lower Upper

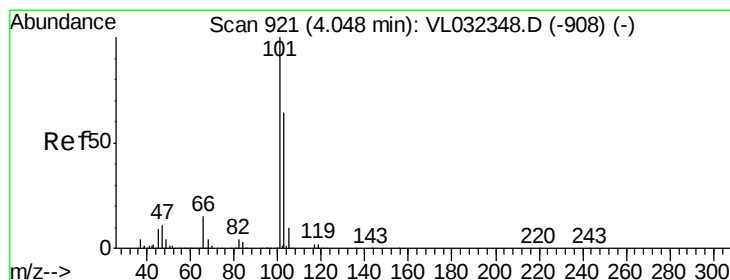
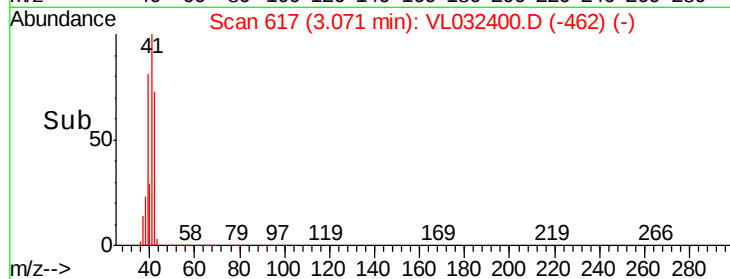
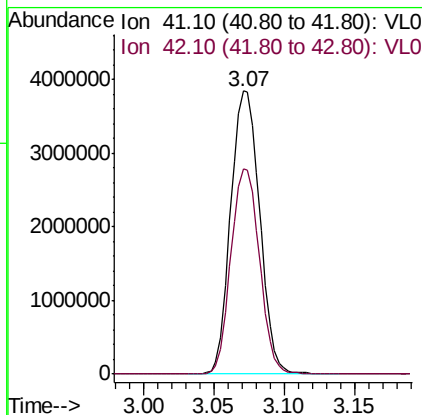
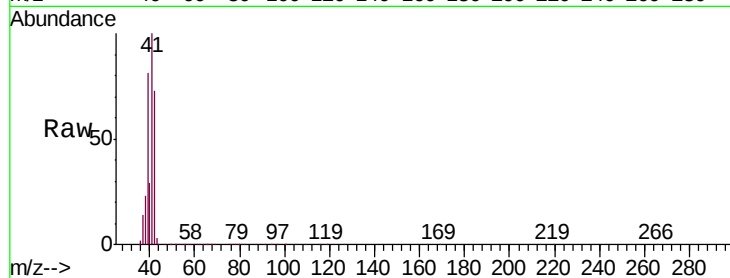
41 100

42 71.6 55.9 83.9

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#11

Trichlorofluoromethane

Concen: 1.253 ppbv

RT: 4.05 min Scan# 921

Delta R.T. 0.00 min

Lab File: VL032400.D

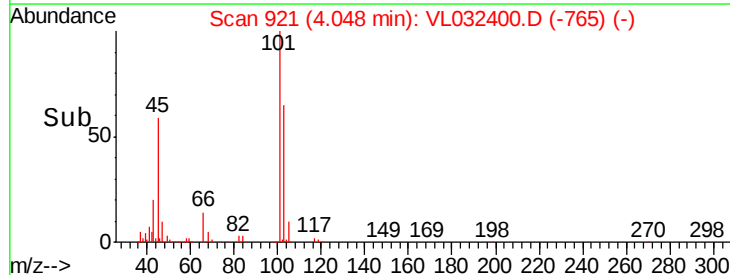
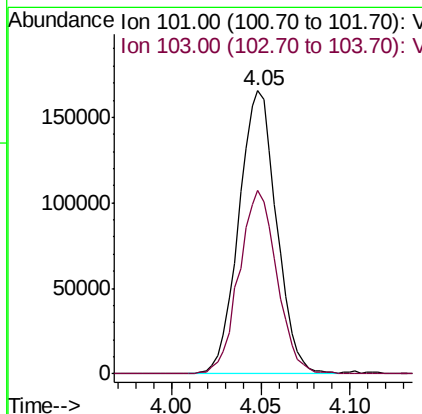
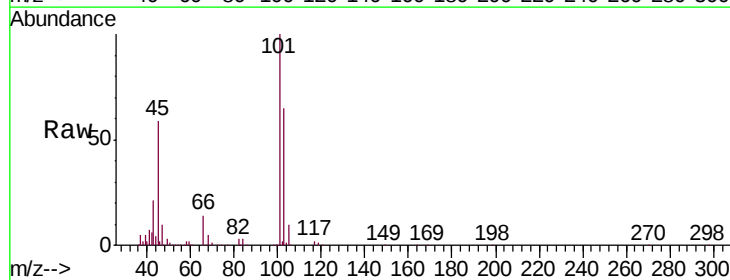
Acq: 17 Aug 2018 9:27

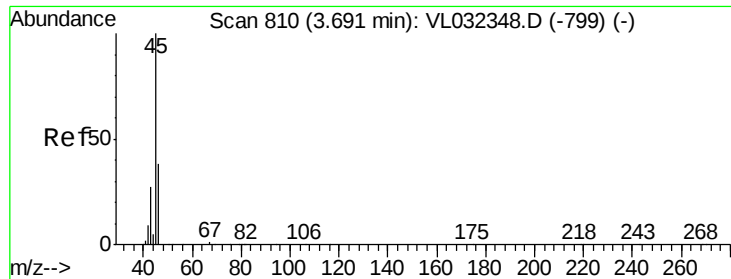
Tgt Ion: 101 Resp: 245100

Ion Ratio Lower Upper

101 100

103 64.6 51.4 77.0





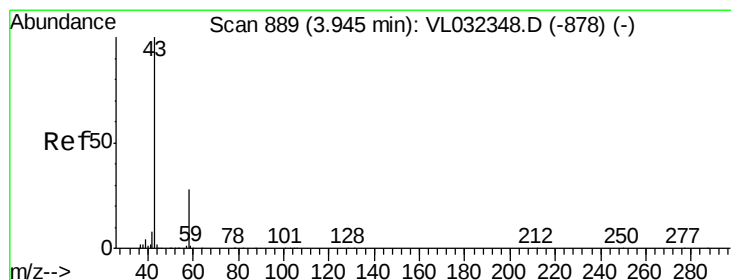
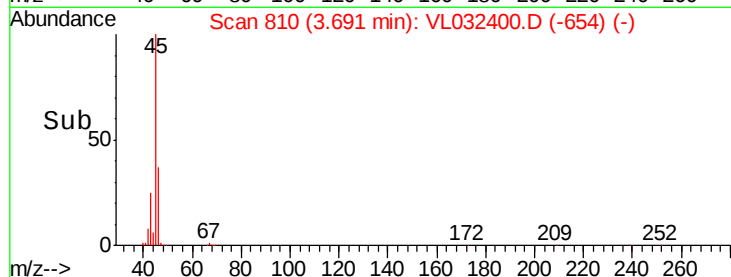
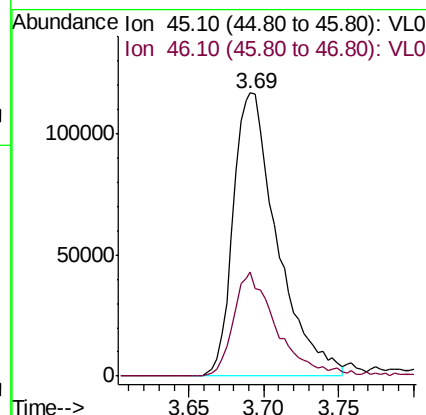
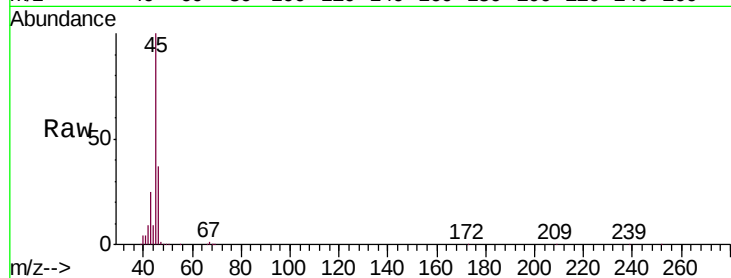
#13
Ethanol
Concen: 13.422 ppbv
RT: 3.69 min Scan# 810
Delta R.T. 0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion: 45 Resp: 238938
Ion Ratio Lower Upper
45 100
46 36.9 15.6 62.4

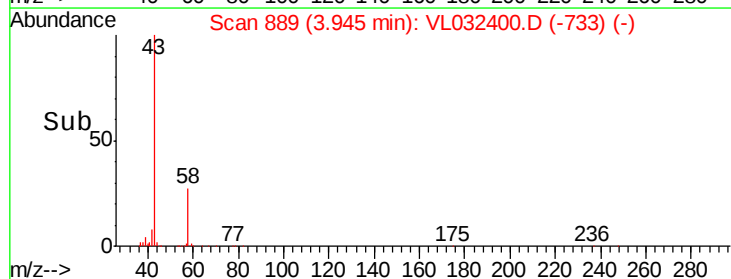
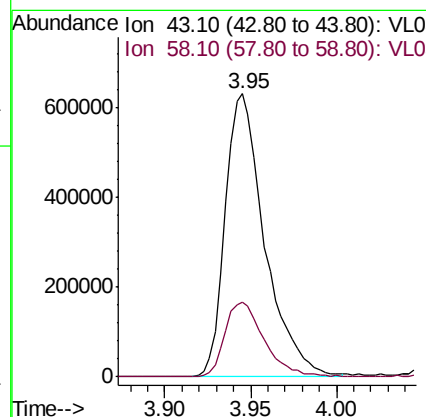
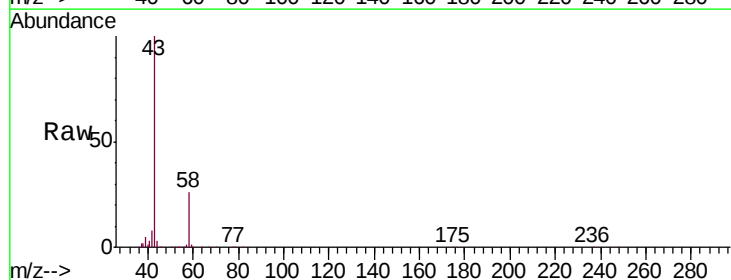
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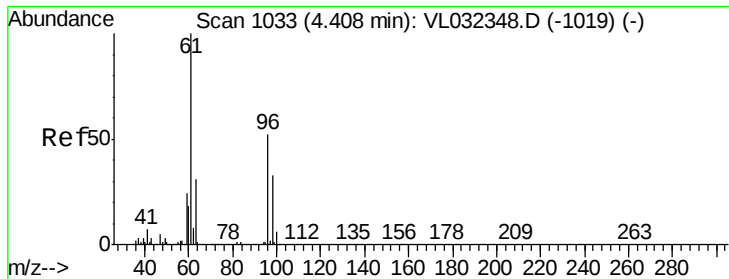
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#15
Acetone
Concen: 6.040 ppbv
RT: 3.95 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Tgt Ion: 43 Resp: 1003228
Ion Ratio Lower Upper
43 100
58 26.6 22.4 33.6





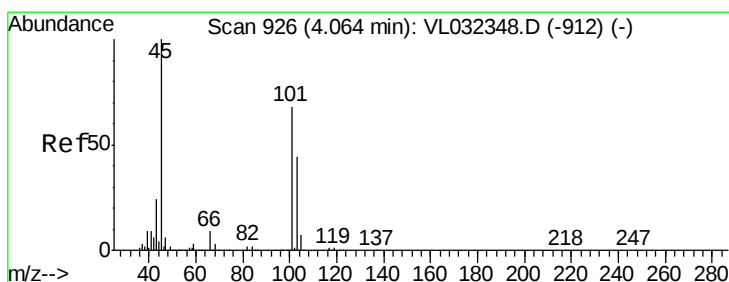
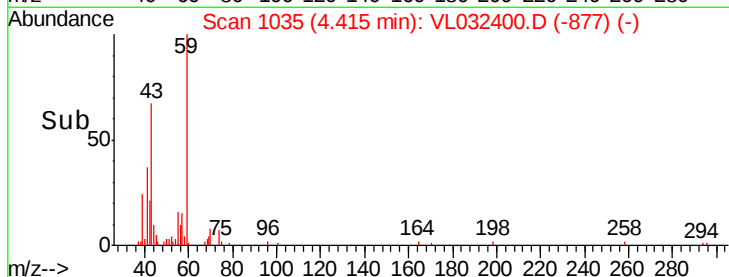
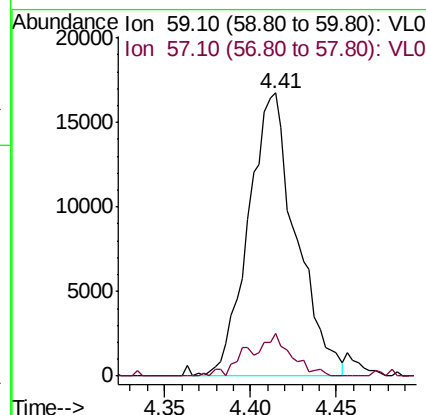
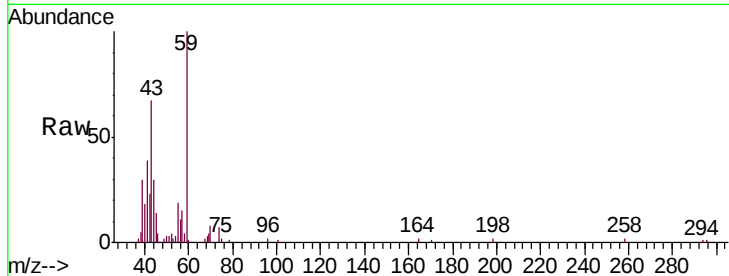
#17
 tert-Butyl alcohol
 Concen: 1.153 ppbv
 RT: 4.41 min Scan# 1035
 Delta R.T. 0.01 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tgt Ion: 59 Resp: 32144
 Ion Ratio Lower Upper
 59 100
 57 13.5 7.6 11.4#

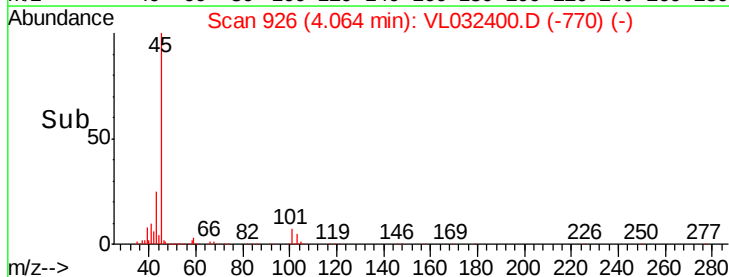
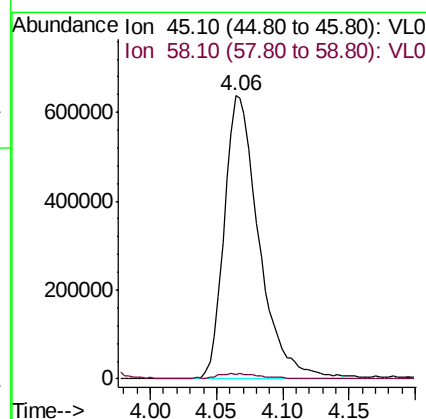
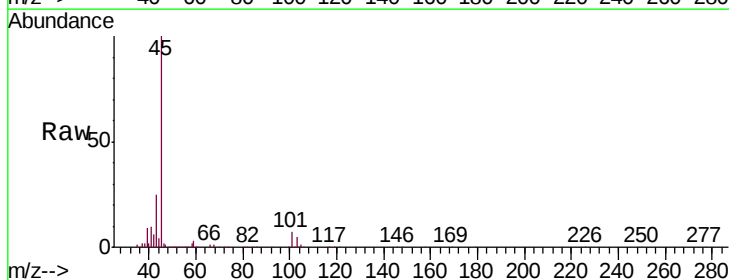
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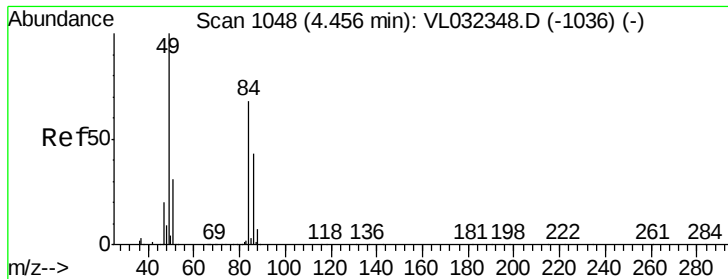
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#19
 Isopropyl Alcohol
 Concen: 10.310 ppbv
 RT: 4.06 min Scan# 926
 Delta R.T. 0.00 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Tgt Ion: 45 Resp: 1153251
 Ion Ratio Lower Upper
 45 100
 58 2.5 1.4 2.0#





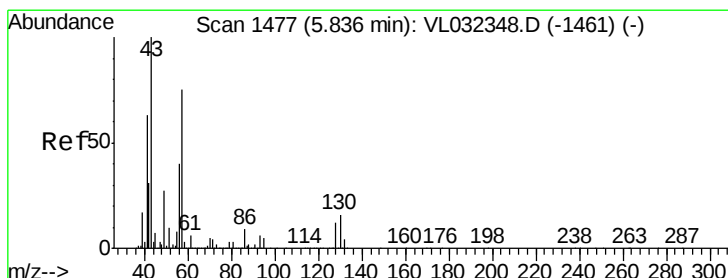
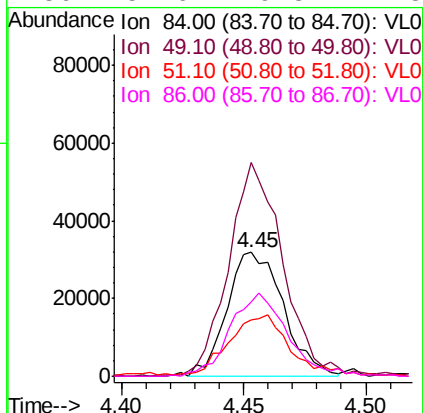
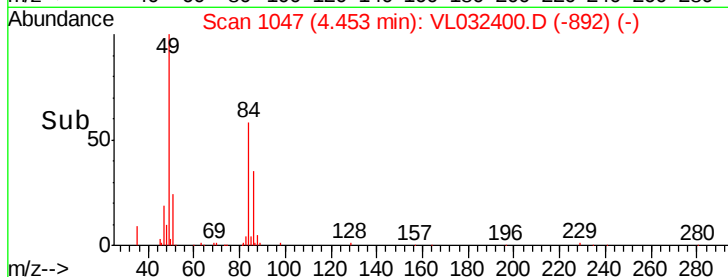
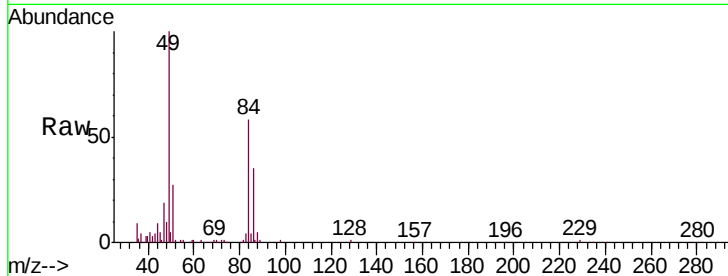
#20
Methylene Chloride
Concen: 0.817 ppbv
RT: 4.45 min Scan# 1047
Delta R.T. -0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion	Ratio	Lower	Upper
84	100		
49	168.4	117.3	175.9
51	43.8	36.6	55.0
86	57.6	49.8	74.8

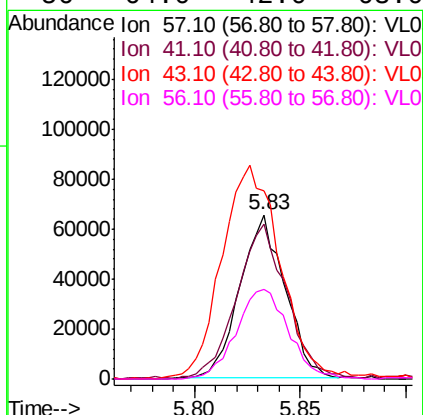
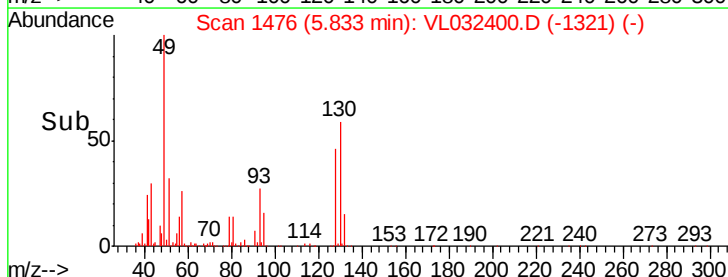
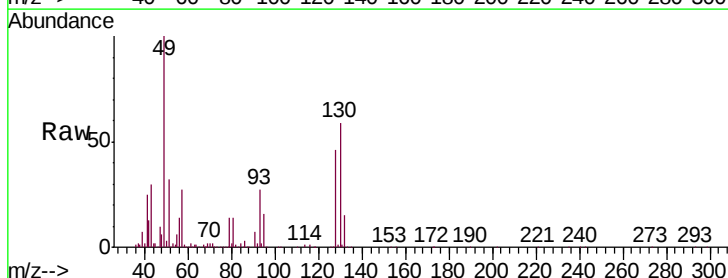
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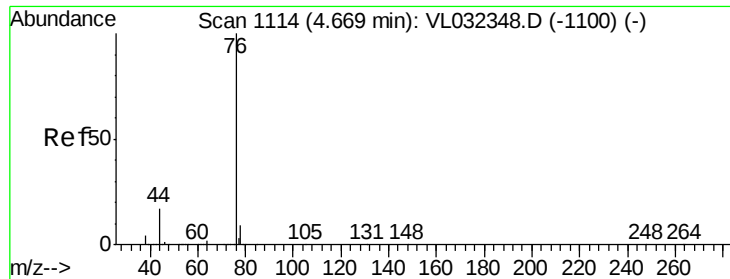
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#26
Hexane
Concen: 0.611 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	105.2	68.0	102.0#
43	173.3	175.3	262.9#
56	64.0	42.0	63.0#





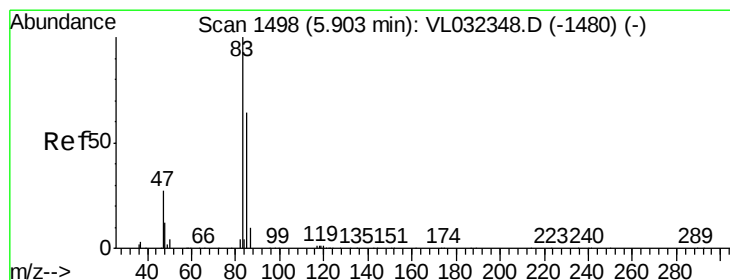
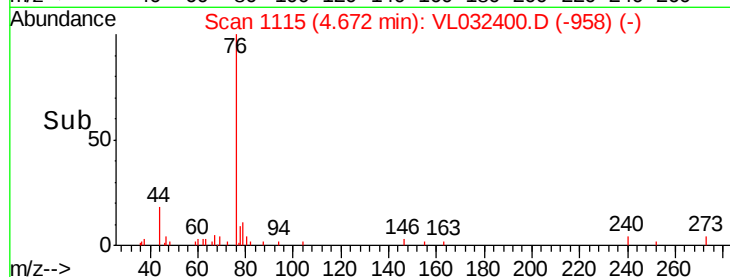
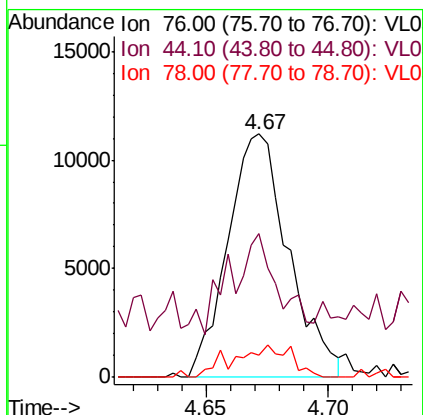
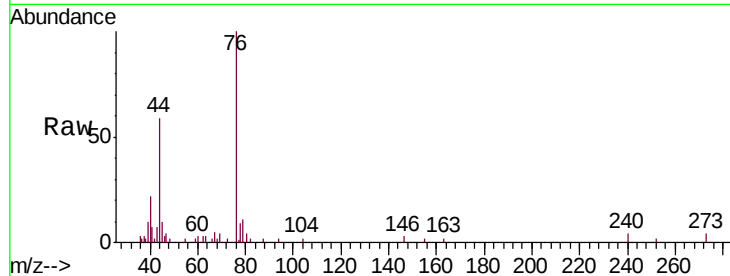
#27
Carbon Disulfide
Concen: 0.131 ppbv
RT: 4.67 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion	Ratio	Lower	Upper
76	100		
44	41.6	14.4	21.6#
78	12.7	7.4	11.0#

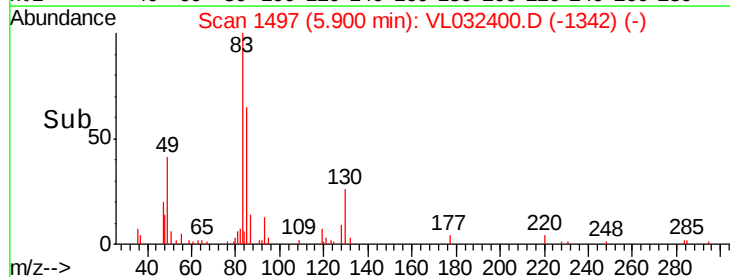
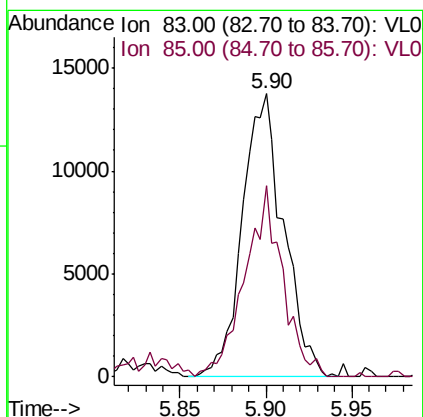
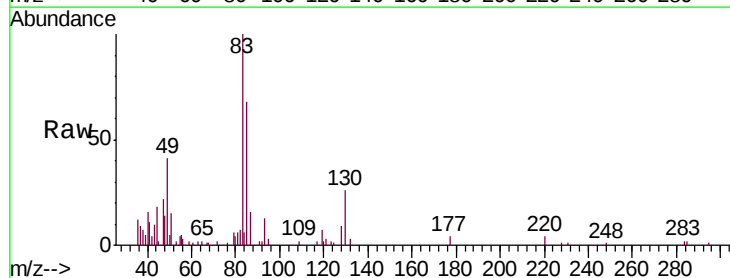
Manual Integrations
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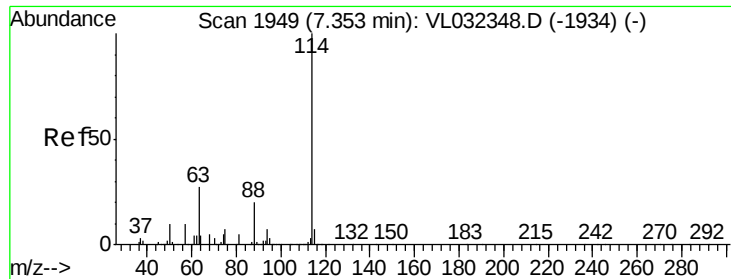
apatel
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#29
Chloroform
Concen: 0.098 ppbv
RT: 5.90 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.6	51.6	77.4





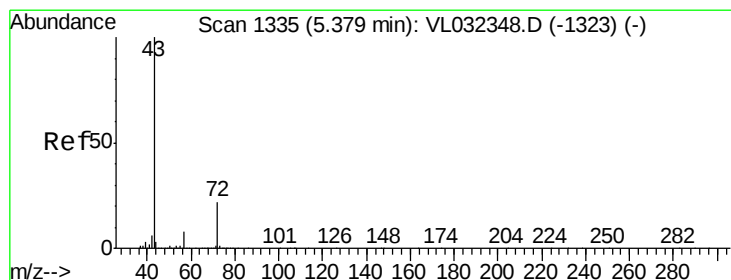
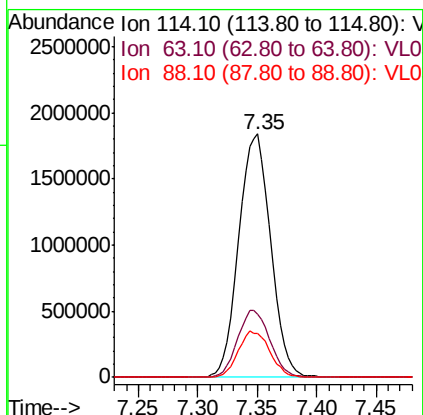
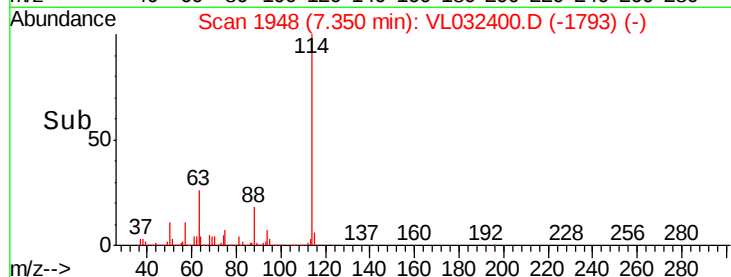
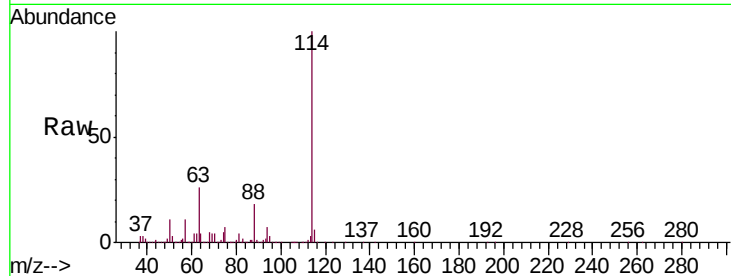
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.0	33.0
88	18.9	15.3	22.9

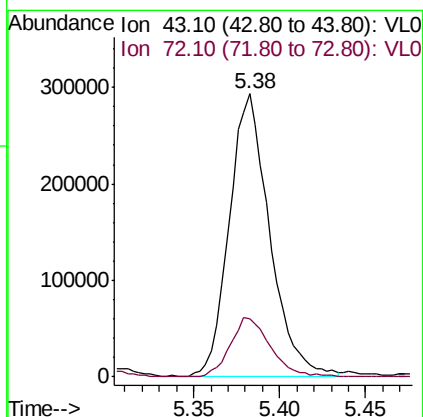
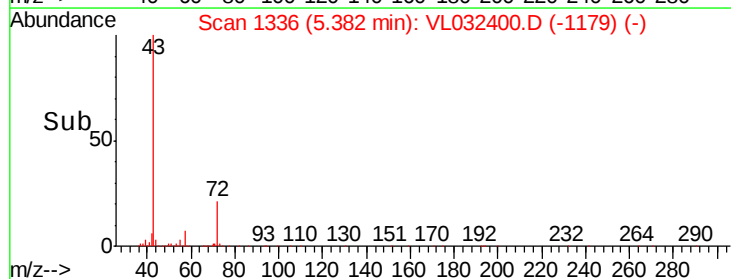
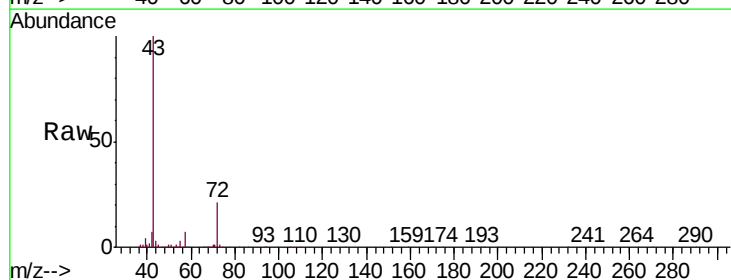
Manual Integrations
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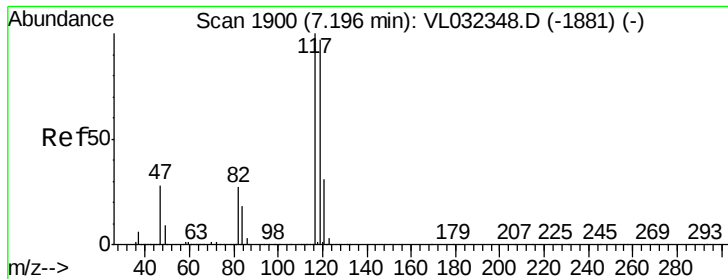
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#34
 2-Butanone
 Concen: 2.032 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.9	26.9





#35

Carbon Tetrachloride

Concen: 0.087 ppbv m

RT: 7.19 min Scan# 1897

Delta R.T. -0.01 min

Lab File: VL032400.D

Acq: 17 Aug 2018 9:27

Instrument :

MSVOA_L

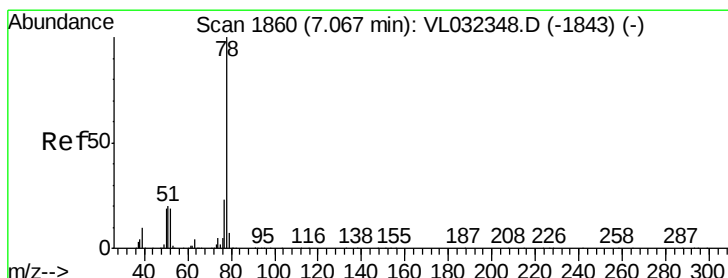
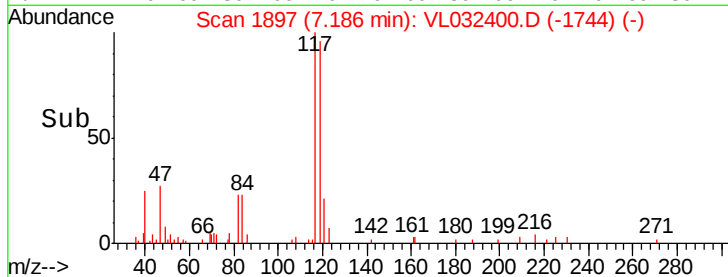
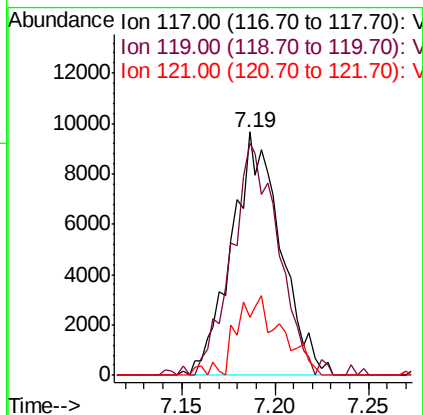
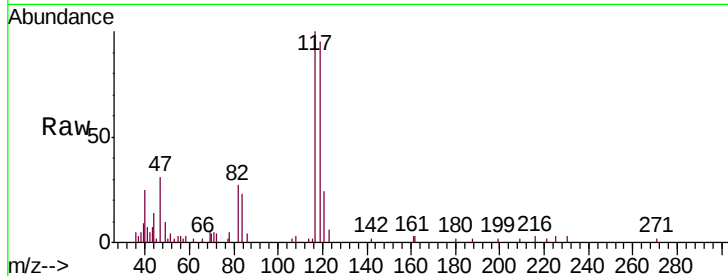
ClientSampled :

SS-1

Tgt Ion:	117	Resp:	17667
Ion Ratio	Lower	Upper	
117	100		
119	95.2	77.2	115.8
121	23.9	25.1	37.7#

Manual Integrations
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#36

Benzene

Concen: 1.703 ppbv

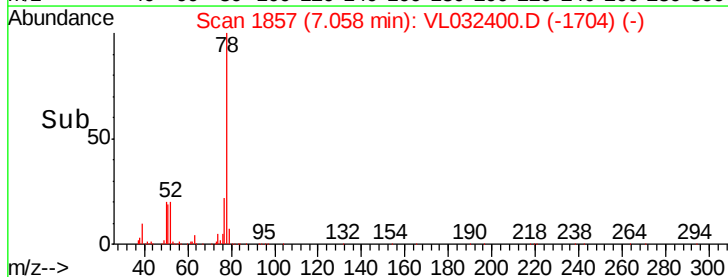
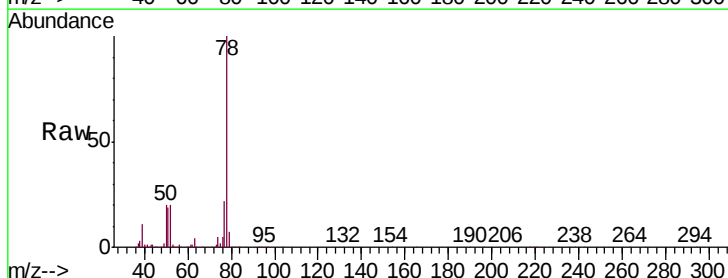
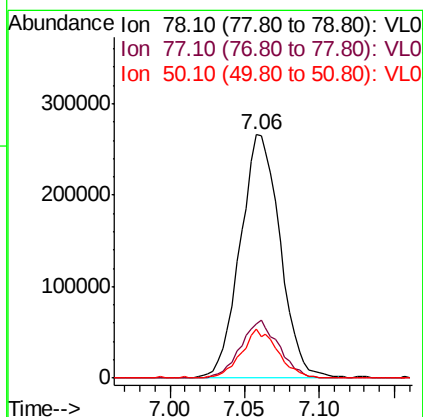
RT: 7.06 min Scan# 1857

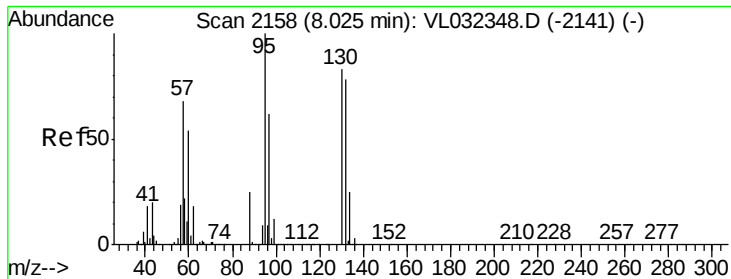
Delta R.T. -0.01 min

Lab File: VL032400.D

Acq: 17 Aug 2018 9:27

Tgt Ion:	78	Resp:	494805
Ion Ratio	Lower	Upper	
78	100		
77	22.1	18.0	27.0
50	19.9	15.1	22.7





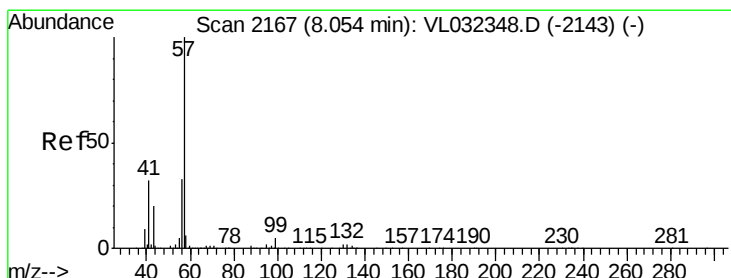
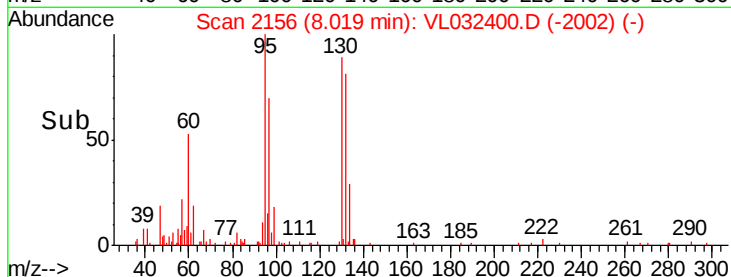
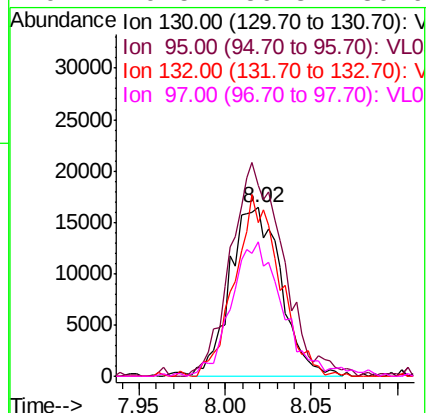
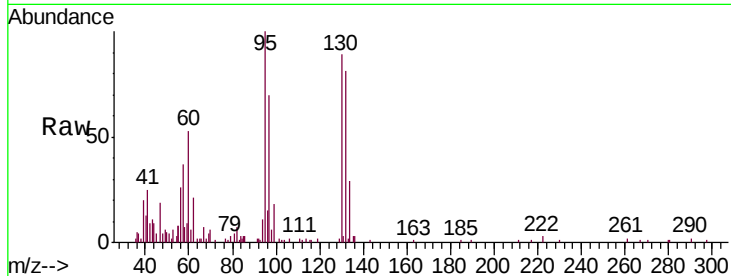
#38
 Trichloroethene
 Concen: 0.332 ppbv m
 RT: 8.02 min Scan# 2156
 Delta R.T. -0.01 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	33820		
95	113.0	96.6	144.8	
132	91.1	75.5	113.3	
97	79.5	59.8	89.6	

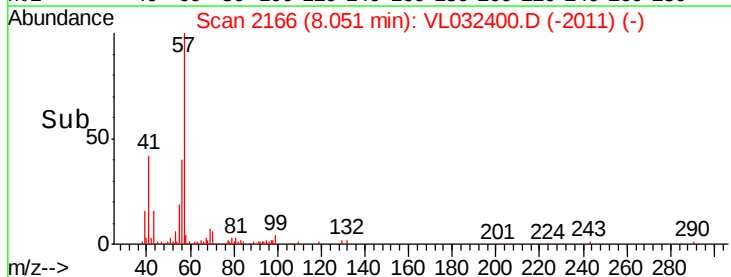
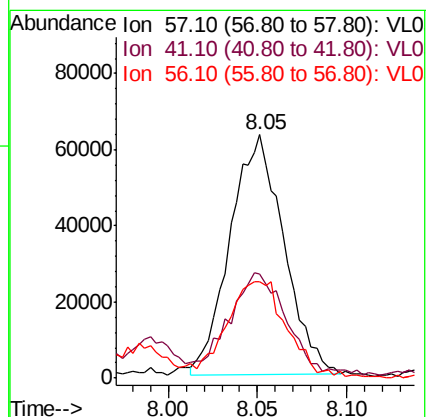
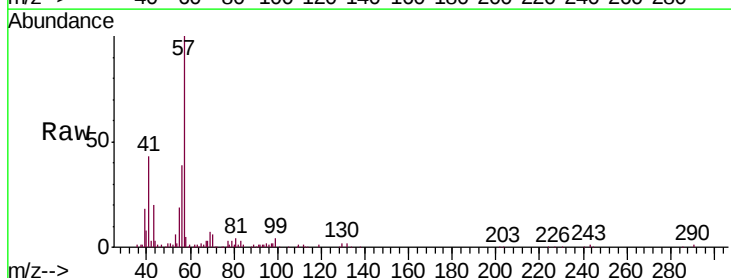
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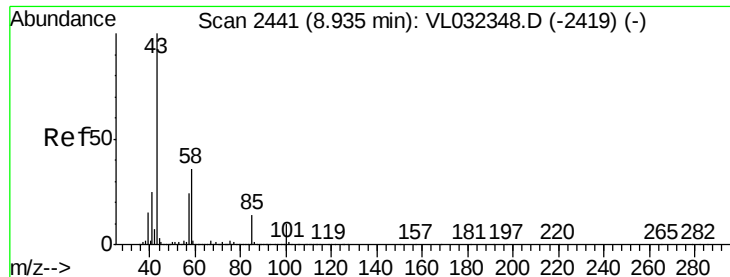
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#44
 2,2,4-Trimethylpentane
 Concen: 0.254 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. -0.00 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	132907		
41	48.7	24.3	36.5#	
56	46.6	25.7	38.5#	





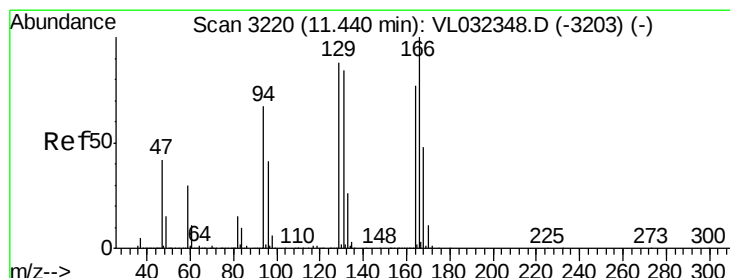
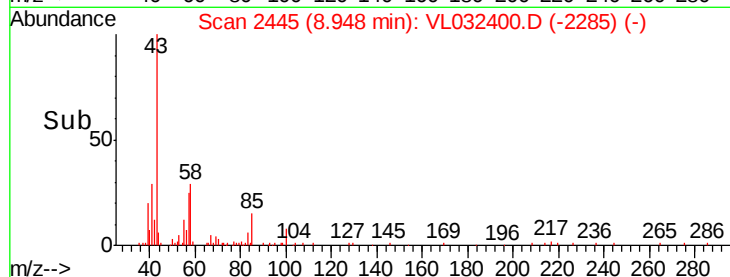
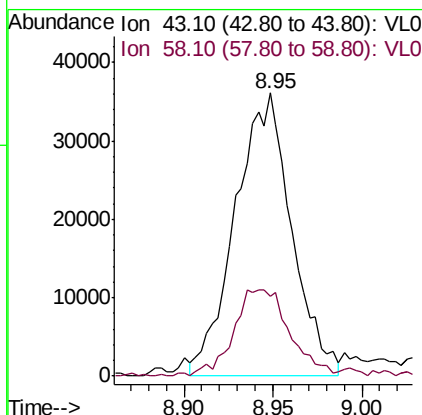
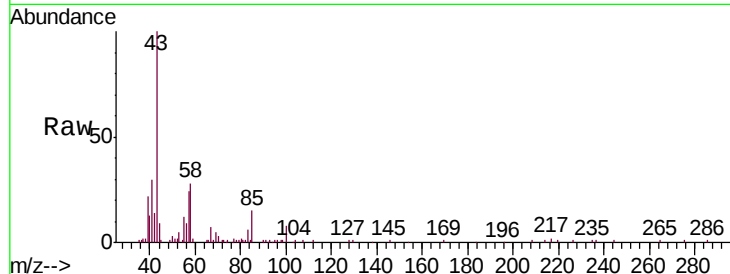
#50
4-Methyl-2-Pentanone
Concen: 0.236 ppbv
RT: 8.95 min Scan# 2445
Delta R.T. 0.01 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.0	28.9	43.3

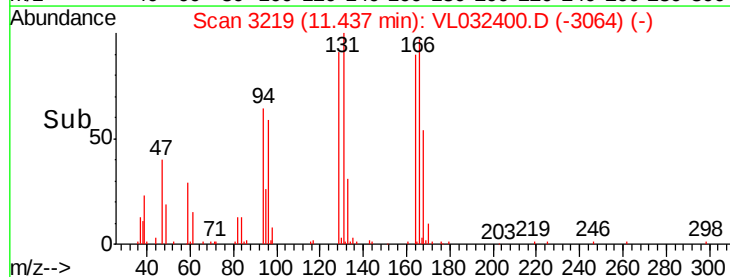
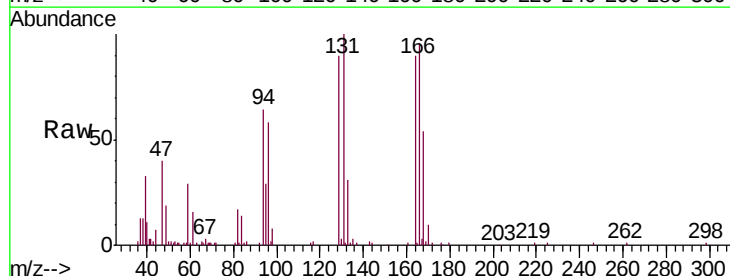
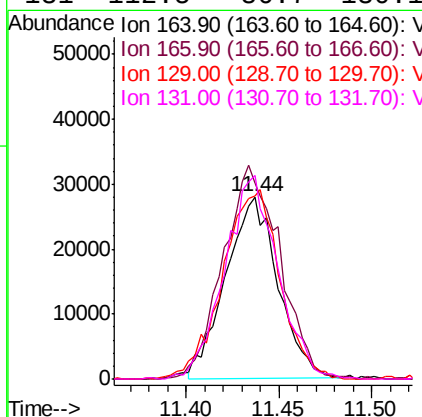
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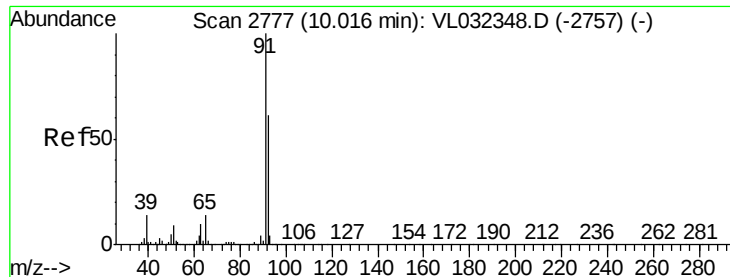
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#52
Tetrachloroethene
Concen: 0.639 ppbv
RT: 11.44 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	106.6	103.5	155.3
129	99.5	90.9	136.3
131	112.5	86.7	130.1





#53

Toluene

Concen: 1.853 ppbv

RT: 10.01 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL032400.D

Acq: 17 Aug 2018 9:27

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 91 Resp: 590203

Ion Ratio Lower Upper

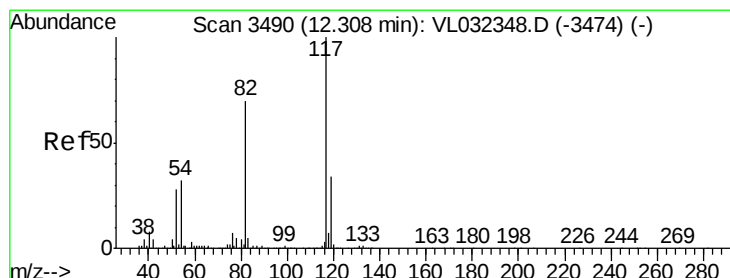
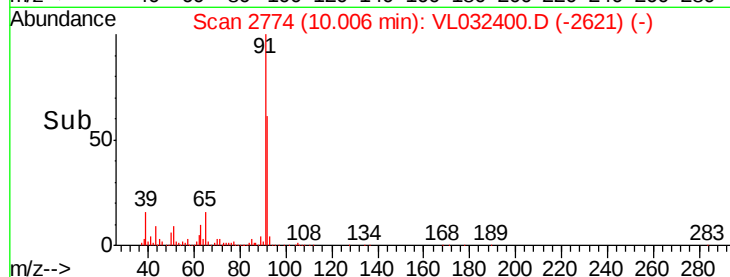
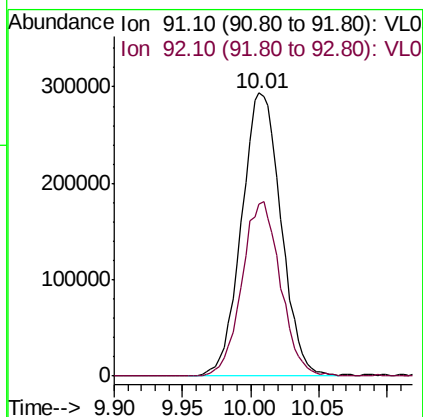
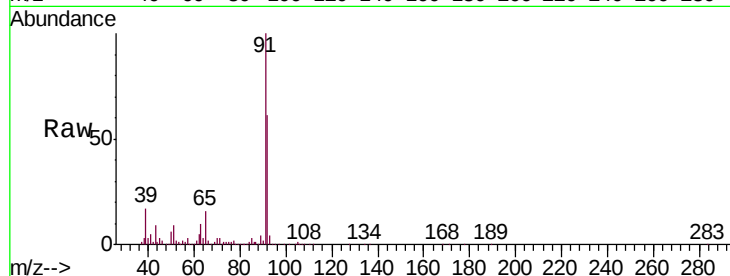
91 100

92 60.2 48.7 73.1

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3488

Delta R.T. -0.01 min

Lab File: VL032400.D

Acq: 17 Aug 2018 9:27

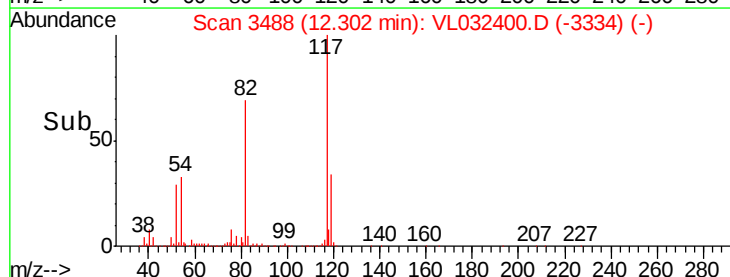
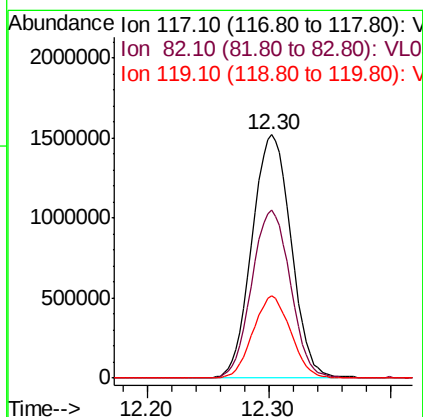
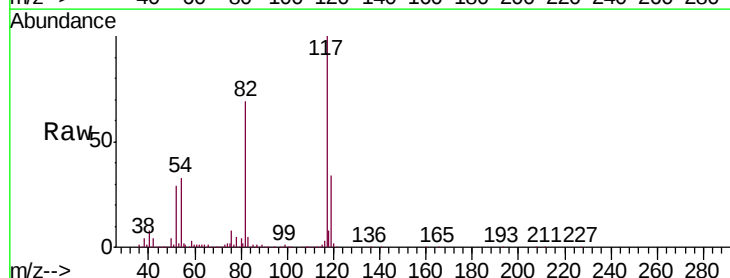
Tgt Ion: 117 Resp: 3369058

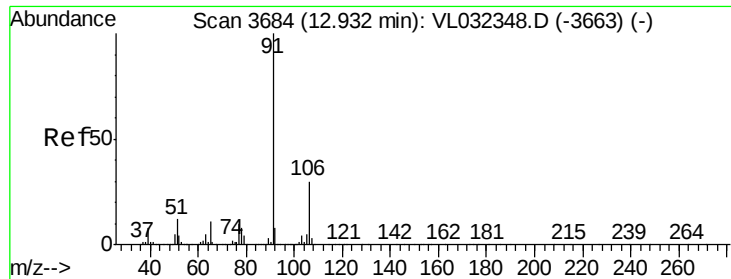
Ion Ratio Lower Upper

117 100

82 69.2 55.1 82.7

119 32.7 46.0 69.0#





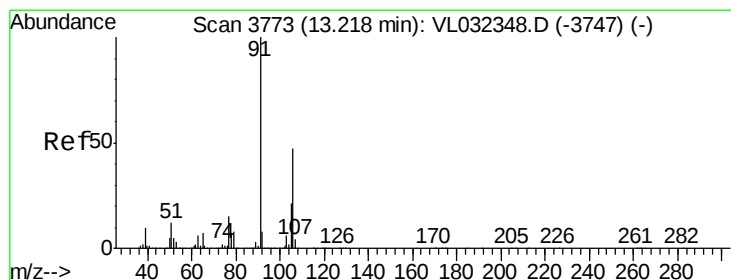
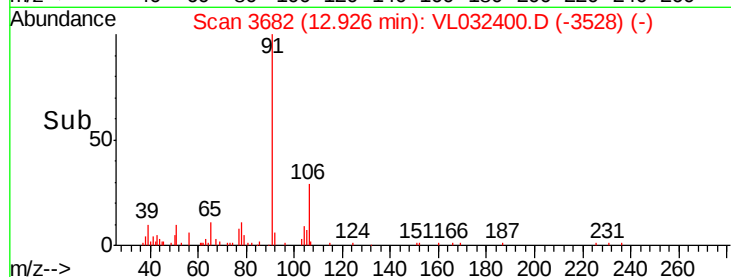
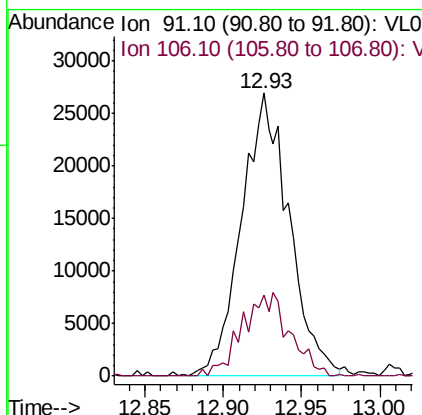
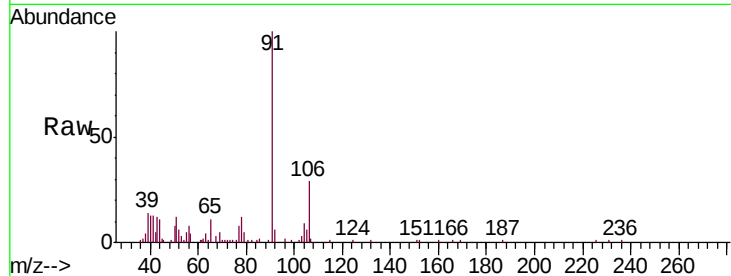
#58
Ethyl Benzene
Concen: 0.141 ppbv m
RT: 12.93 min Scan# 3682
Delta R.T. -0.01 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion: 91 Resp: 57026
Ion Ratio Lower Upper
91 100
106 28.9 24.3 36.5

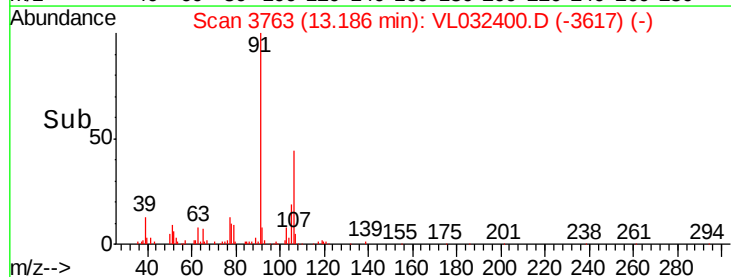
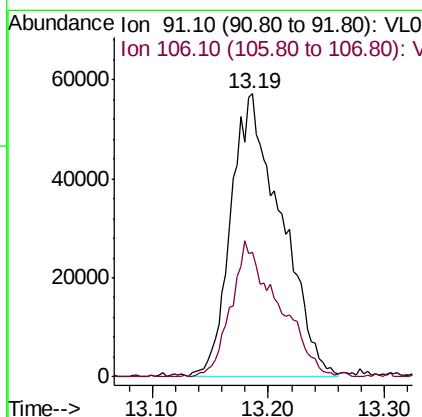
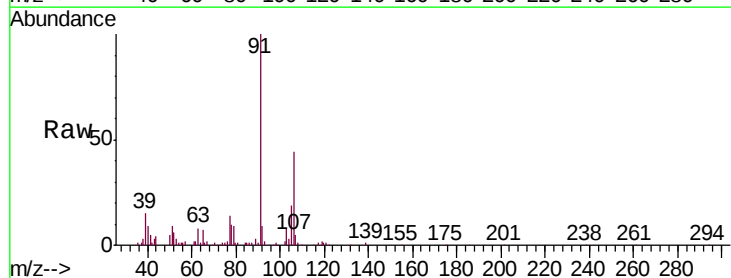
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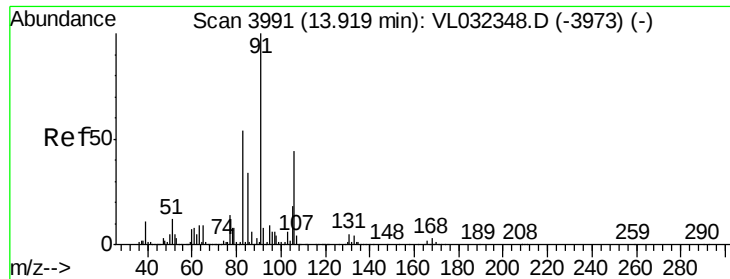
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#59
m/p-Xylene
Concen: 0.497 ppbv
RT: 13.19 min Scan# 3763
Delta R.T. -0.03 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Tgt Ion: 91 Resp: 171131
Ion Ratio Lower Upper
91 100
106 45.6 37.0 55.4





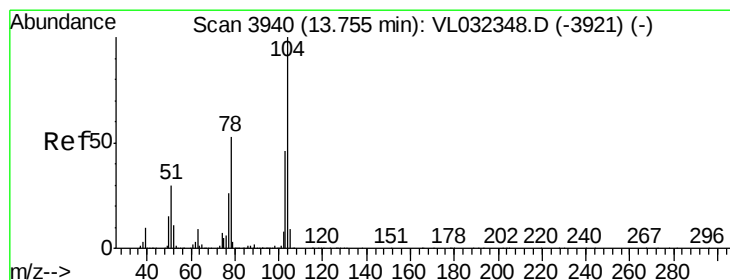
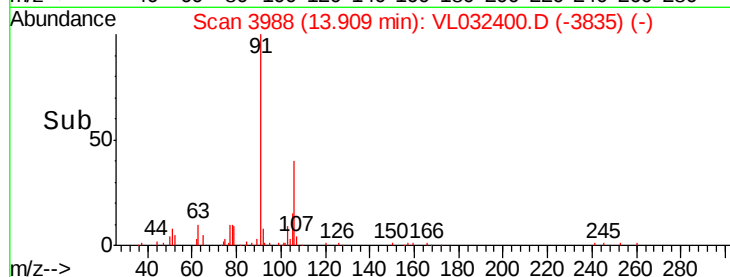
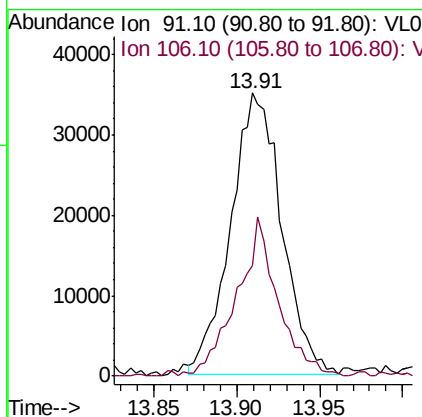
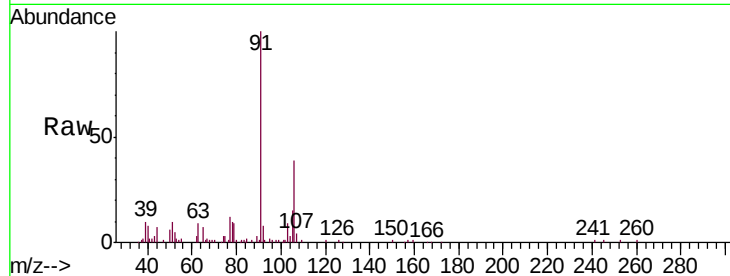
#60
o-Xylene
Concen: 0.222 ppbv
RT: 13.91 min Scan# 3988
Delta R.T. -0.01 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	75059		
106	46.1	22.3	66.8	

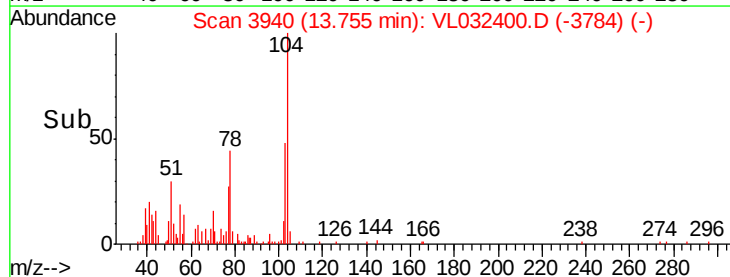
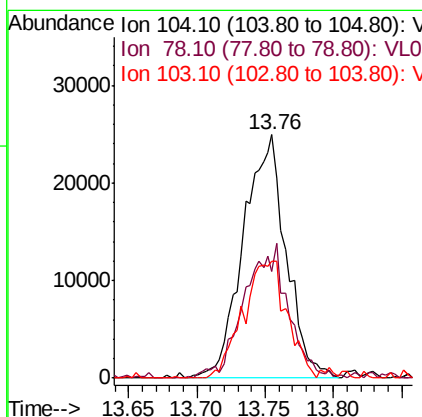
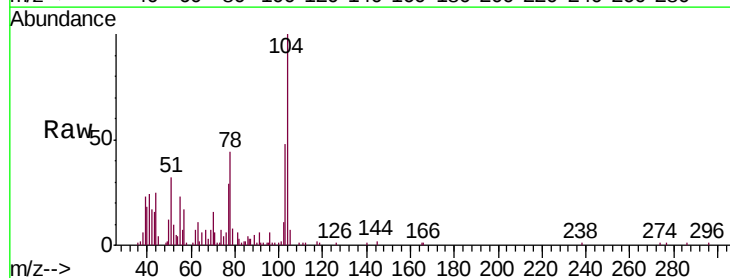
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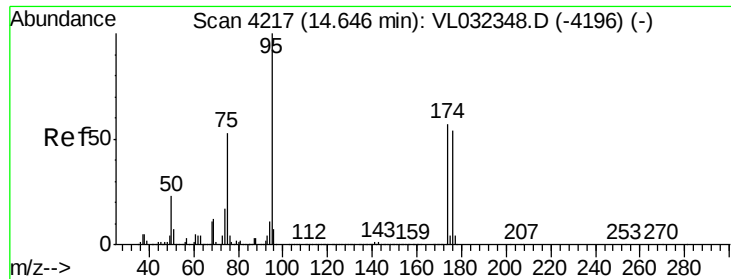
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#61
Styrene
Concen: 0.229 ppbv
RT: 13.76 min Scan# 3940
Delta R.T. 0.00 min
Lab File: VL032400.D
Acq: 17 Aug 2018 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	54272		
78	57.4	42.6	64.0	
103	51.5	38.0	57.0	





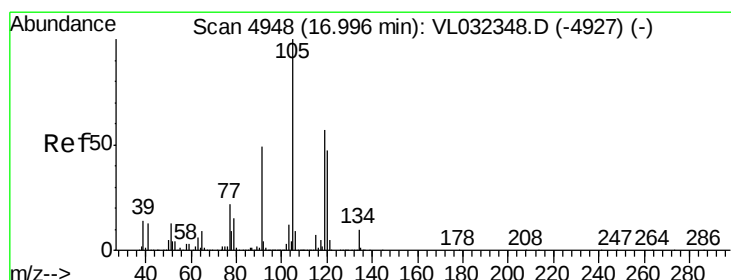
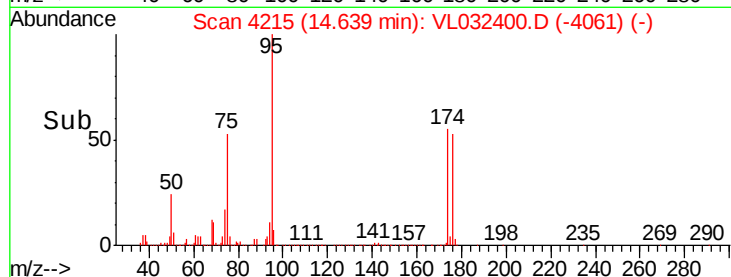
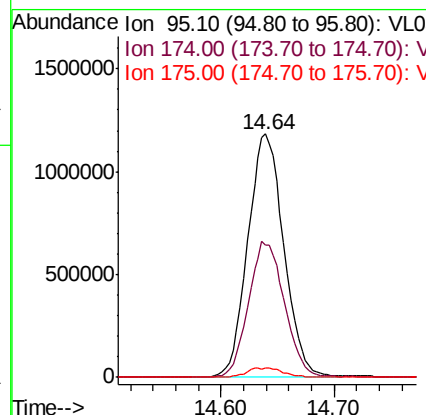
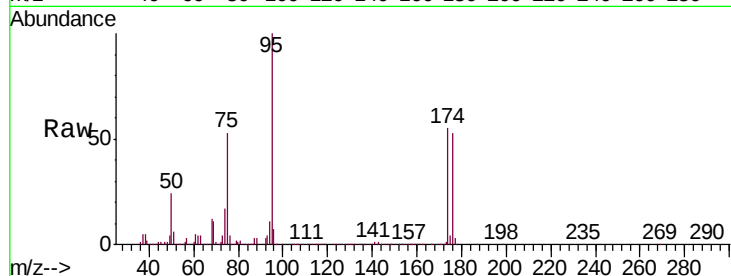
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.174 ppbv
 RT: 14.64 min Scan# 4215
 Delta R.T. -0.01 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tgt Ion: 95 Resp: 2615172
 Ion Ratio Lower Upper
 95 100
 174 56.2 46.2 69.4
 175 4.1 3.4 5.0

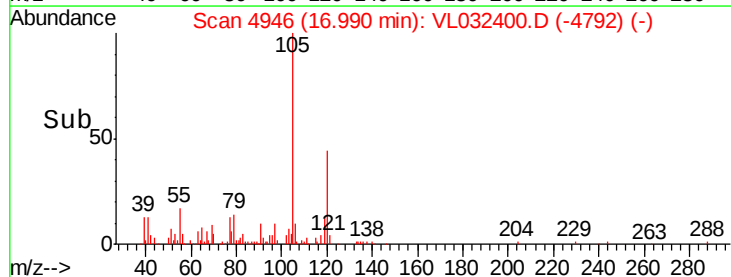
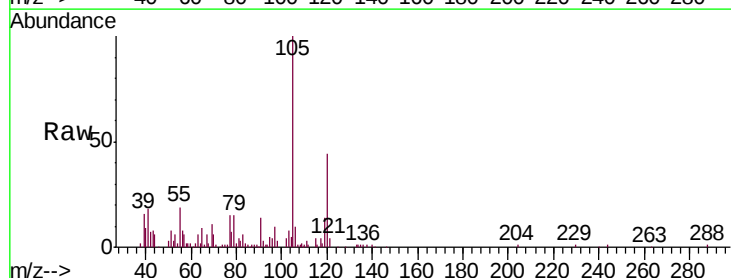
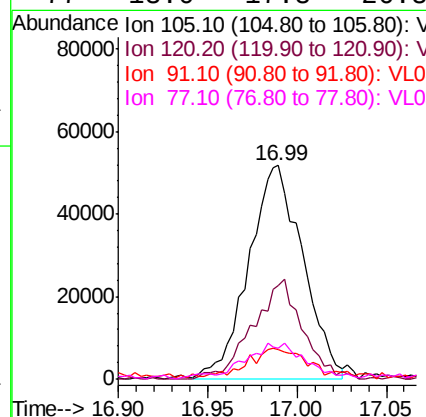
Manual Integrations
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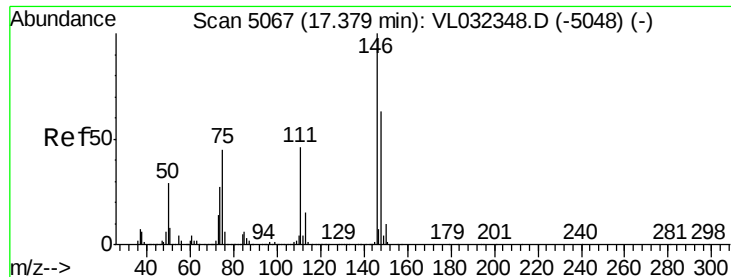
apatel
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.285 ppbv
 RT: 16.99 min Scan# 4946
 Delta R.T. -0.01 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Tgt Ion: 105 Resp: 110010
 Ion Ratio Lower Upper
 105 100
 120 44.2 37.6 56.4
 91 11.9 39.9 59.9#
 77 13.0 17.8 26.8#





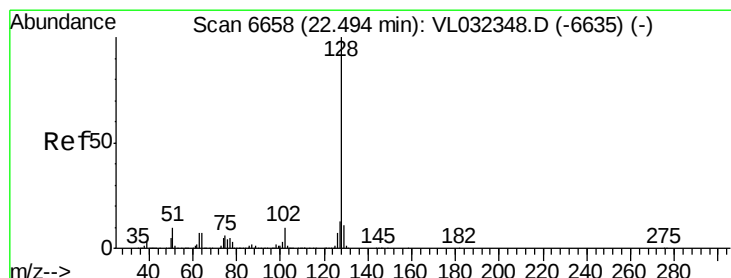
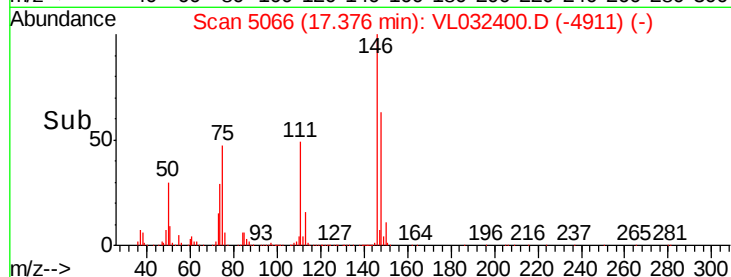
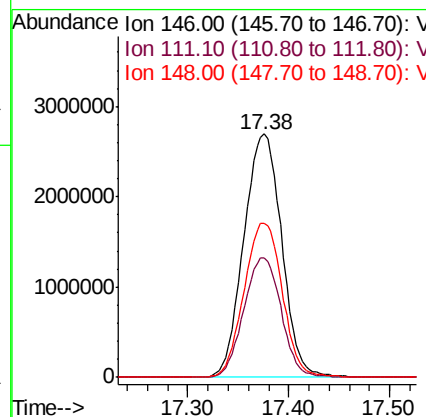
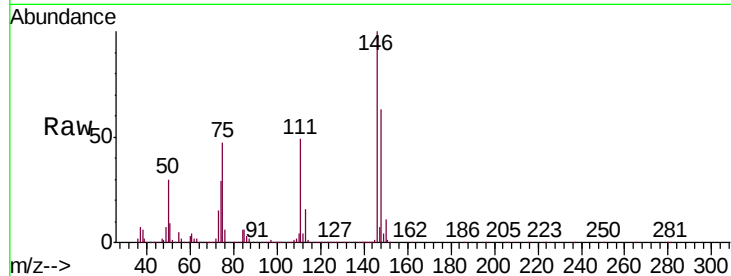
#76
 1,4-Dichlorobenzene
 Concen: 31.977 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.00 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.6	23.8	71.4
148	64.1	32.2	96.6

Manual Integrations
 APPROVED

apatel
 8/29/2018 1:12:06 PM



#79
 Naphthalene
 Concen: 0.230 ppbv m
 RT: 22.48 min Scan# 6655
 Delta R.T. -0.01 min
 Lab File: VL032400.D
 Acq: 17 Aug 2018 9:27

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	8.3	8.6	13.0#

