

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL082018\
 Data File : VL032413.D
 Acq On : 20 Aug 2018 20:44
 Operator : SY/AP
 Sample : J4472-02DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DUP

Manual Integrations
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Quant Time: Aug 29 12:36:17 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	1817300	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3500941	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3440251	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2659919	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	126131	0.681	ppbv	99
3) Chlorodifluoromethane	3.05	51	103511m	0.615	ppbv	
4) Chloromethane	3.21	50	124417	1.242	ppbv	95
9) Propene	3.07	41	681929	9.465	ppbv	98
10) Heptane	8.30	43	29823	0.137	ppbv	94
11) Trichlorofluoromethane	4.04	101	754336	3.711	ppbv	99
13) Ethanol	3.69	45	479502	25.913	ppbv	96
15) Acetone	3.94	43	2917782	16.899	ppbv	99
19) Isopropyl Alcohol	4.06	45	1862121	16.016	ppbv	99
20) Methylene Chloride	4.45	84	164389	2.521	ppbv	95
26) Hexane	5.83	57	165581	1.004	ppbv	94
27) Carbon Disulfide	4.66	76	18720m	0.122	ppbv	
29) Chloroform	5.90	83	61554	0.255	ppbv	99
34) 2-Butanone	5.37	43	1163730	4.884	ppbv	98
35) Carbon Tetrachloride	7.19	117	18307m	0.089	ppbv	
36) Benzene	7.06	78	248598	0.838	ppbv	98
38) Trichloroethene	8.02	130	55160m	0.530	ppbv	
44) 2,2,4-Trimethylpentane	8.04	57	88307m	0.165	ppbv	
50) 4-Methyl-2-Pentanone	8.94	43	152679	0.444	ppbv	92
51) 2-Hexanone	10.34	43	161507	0.668	ppbv #	91
52) Tetrachloroethene	11.43	164	108539	1.240	ppbv	96
53) Toluene	10.00	91	1023422	3.145	ppbv	99
58) Ethyl Benzene	12.93	91	95134m	0.230	ppbv	
59) m/p-Xylene	13.18	91	257548	0.732	ppbv	99
60) o-Xylene	13.92	91	126120	0.365	ppbv	98
61) Styrene	13.74	104	57338m	0.237	ppbv	
74) 1,2,4-Trimethylbenzene	16.99	105	86565	0.219	ppbv #	64
76) 1,4-Dichlorobenzene	17.38	146	8514927	37.918	ppbv	99
79) Naphthalene	22.49	128	95478m	0.332	ppbv	

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

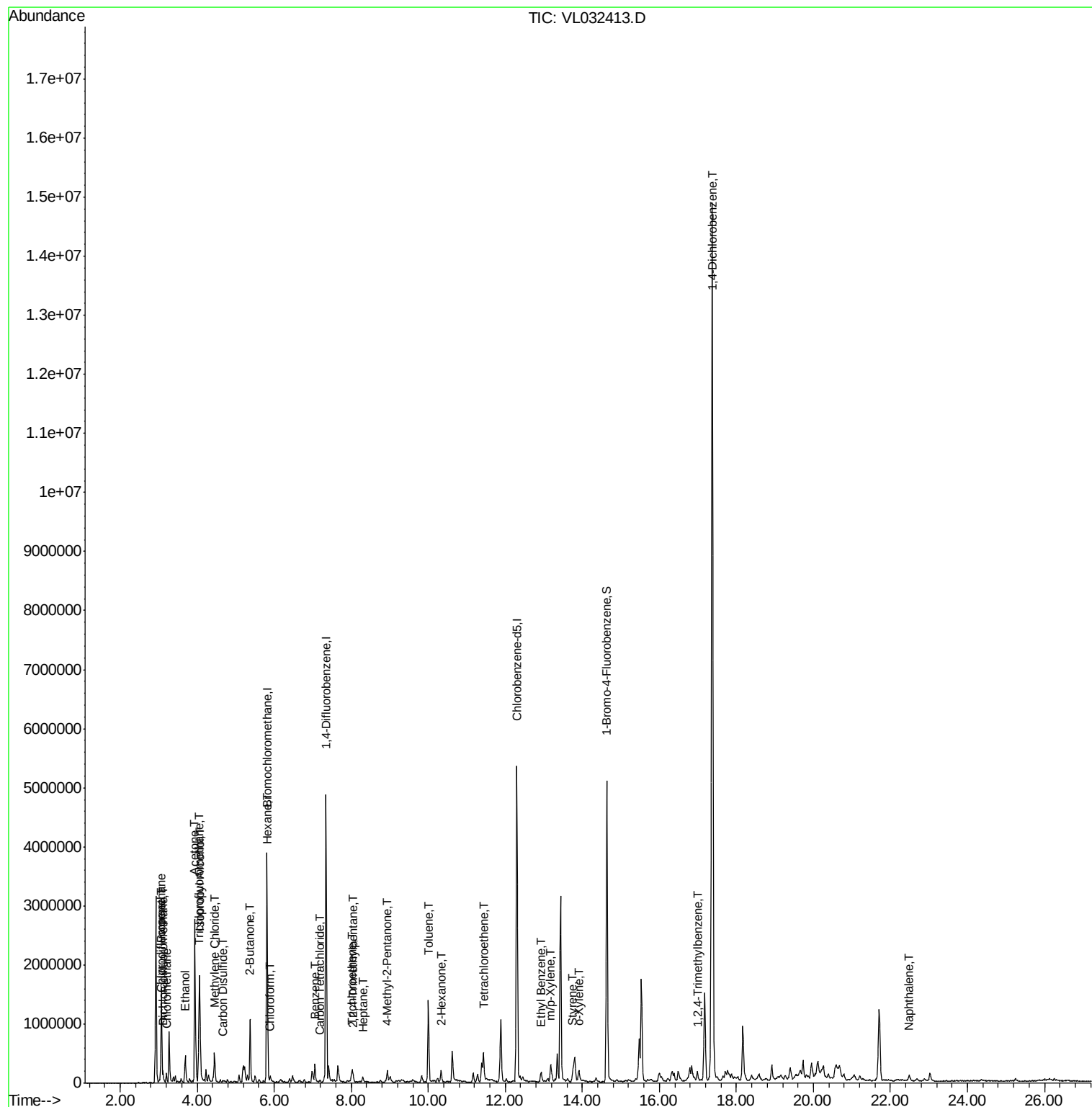
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL082018\
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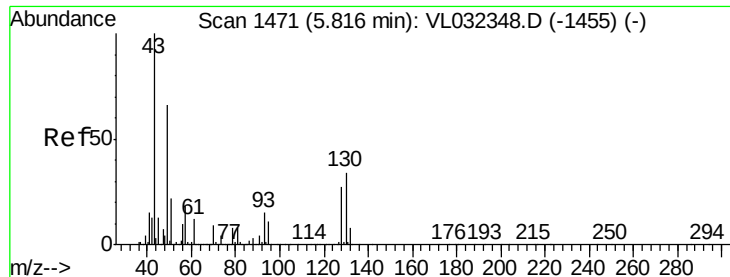
Instrument :
MSVOA_L
ClientSampleId :
SS-2DUP

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Quant Time: Aug 29 12:36:17 2018
Quant Method : Z:\V0ASRV\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# 1469

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampled :

SS-2DUP

Tgt Ion: 49 Resp: 1817300

Ion Ratio Lower Upper

49 100

128 40.9 20.5 61.6

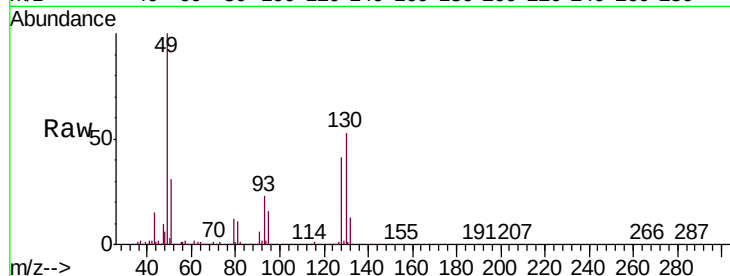
130 51.7 26.2 78.5

Manual Integrations

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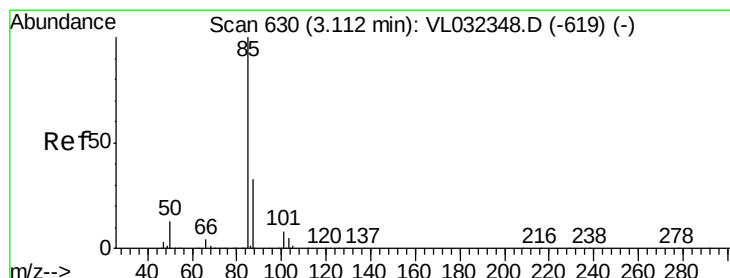
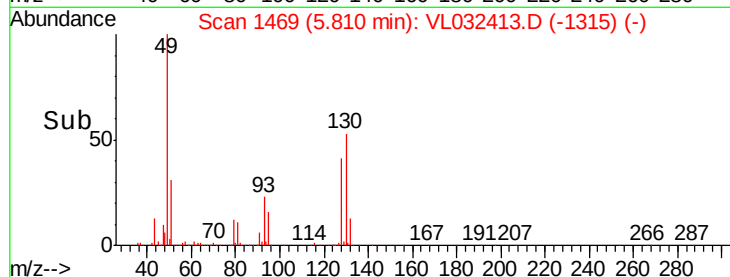
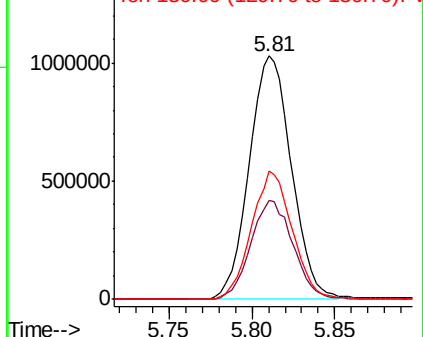
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.681 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL032413.D

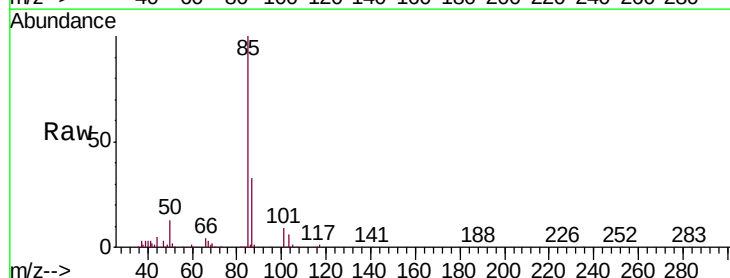
Acq: 20 Aug 2018 20:44

Tgt Ion: 85 Resp: 126131

Ion Ratio Lower Upper

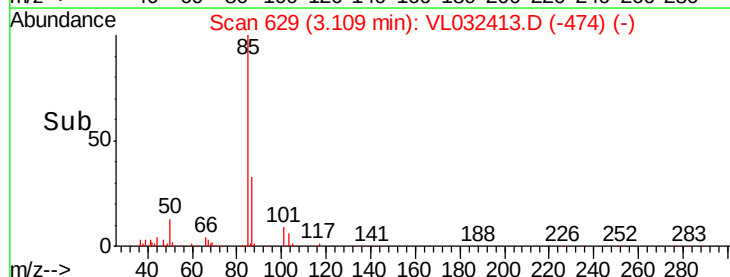
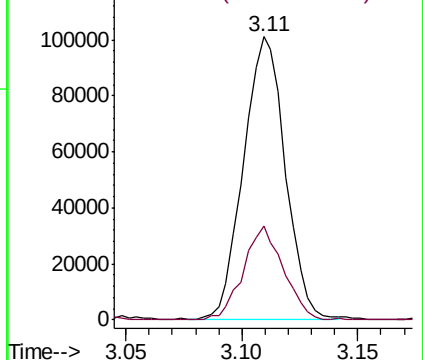
85 100

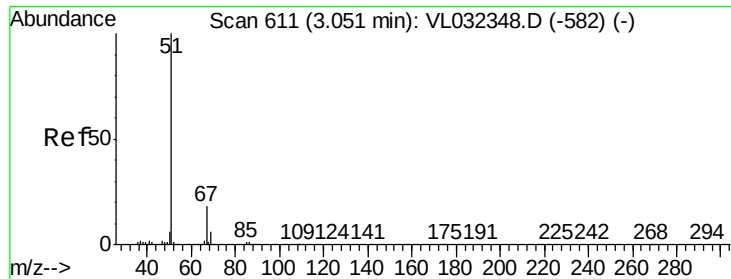
87 33.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.615 ppbv m

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampleId :

SS-2DUP

Tgt Ion: 51 Resp: 103511

Ion Ratio Lower Upper

51 100

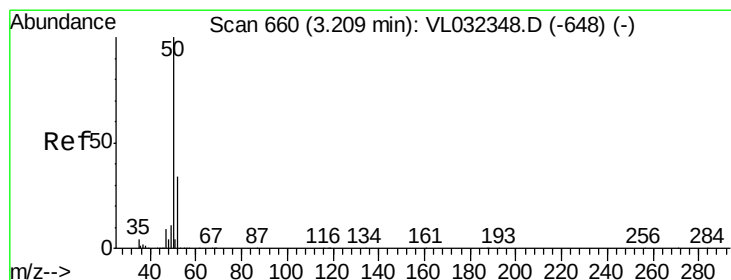
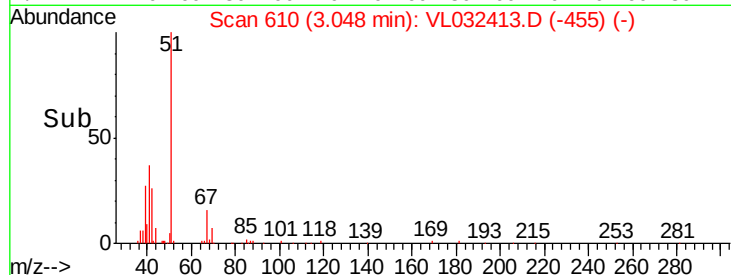
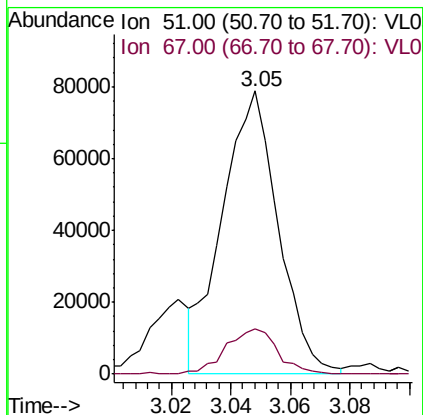
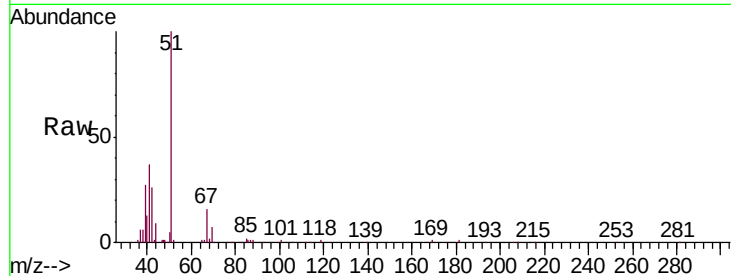
67 15.1 13.7 20.5

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#4

Chloromethane

Concen: 1.242 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032413.D

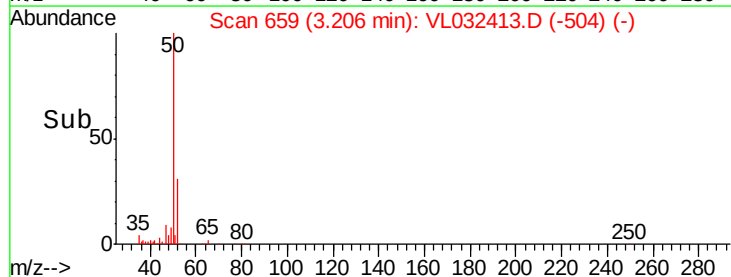
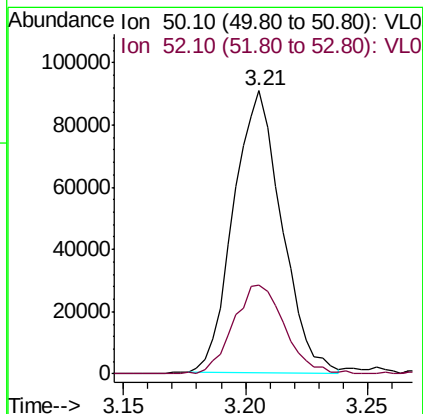
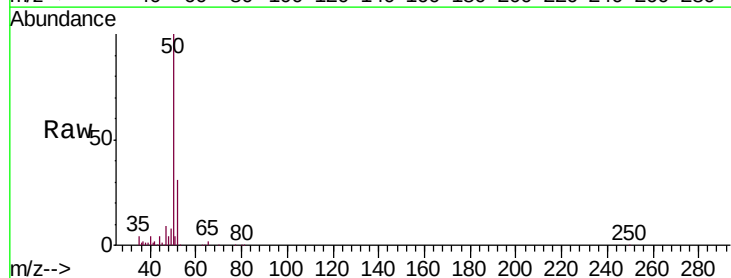
Acq: 20 Aug 2018 20:44

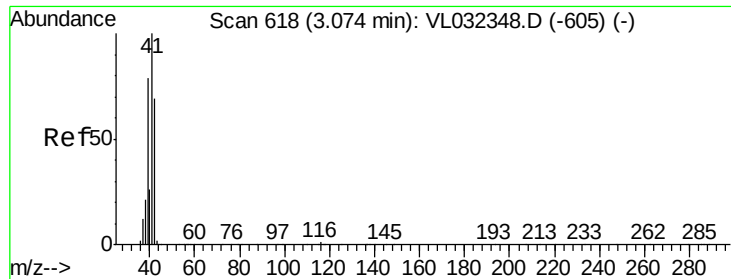
Tgt Ion: 50 Resp: 124417

Ion Ratio Lower Upper

50 100

52 30.9 26.8 40.2





#9

Propene

Concen: 9.465 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampled :

SS-2DUP

Tgt Ion: 41 Resp: 681929

Ion Ratio Lower Upper

41 100

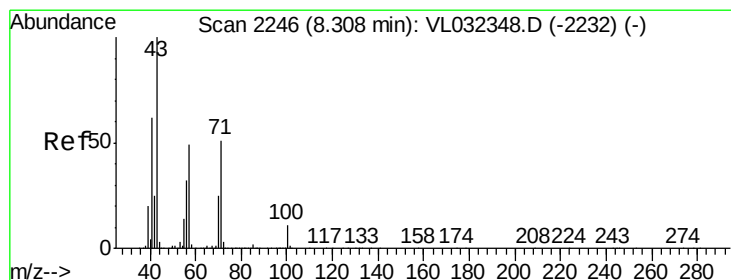
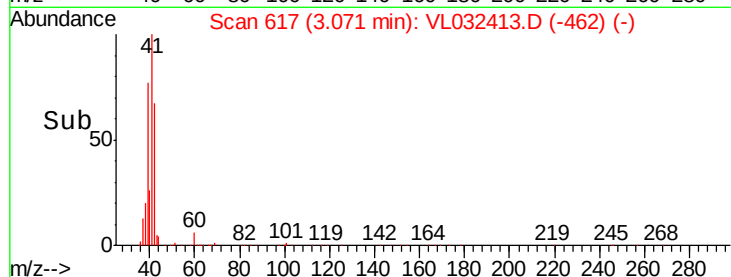
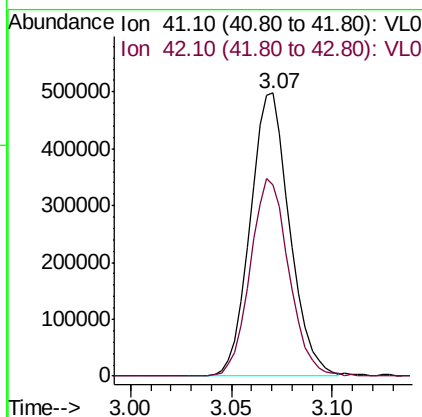
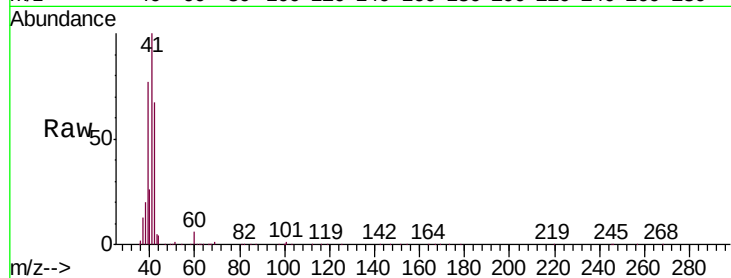
42 68.6 55.9 83.9

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#10

Heptane

Concen: 0.137 ppbv

RT: 8.30 min Scan# 2243

Delta R.T. -0.01 min

Lab File: VL032413.D

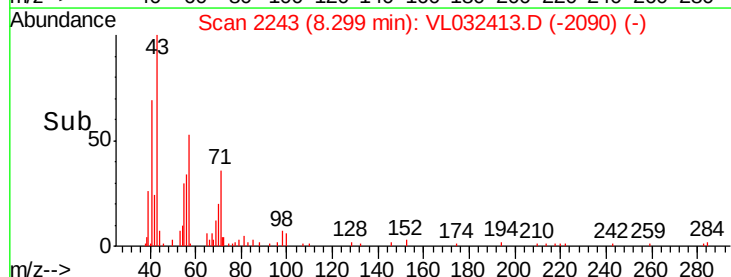
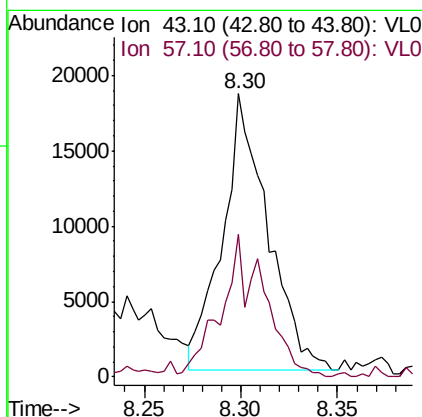
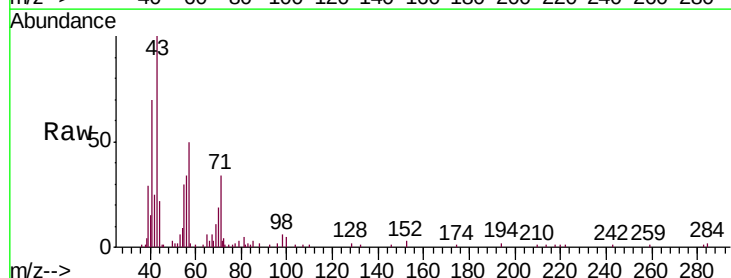
Acq: 20 Aug 2018 20:44

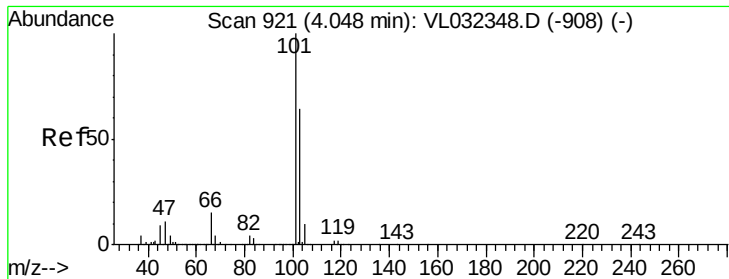
Tgt Ion: 43 Resp: 29823

Ion Ratio Lower Upper

43 100

57 53.5 39.5 59.3





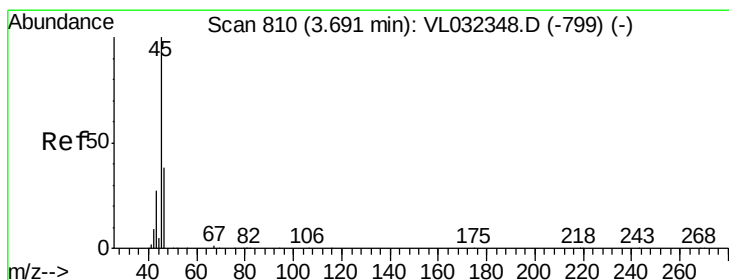
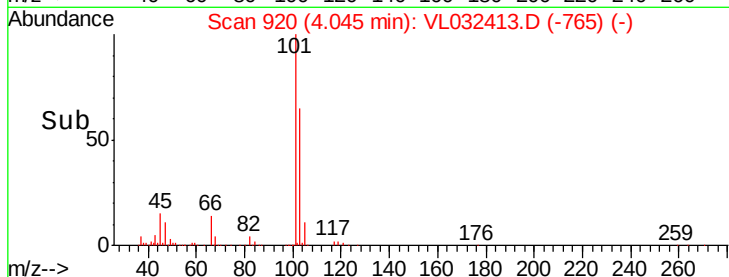
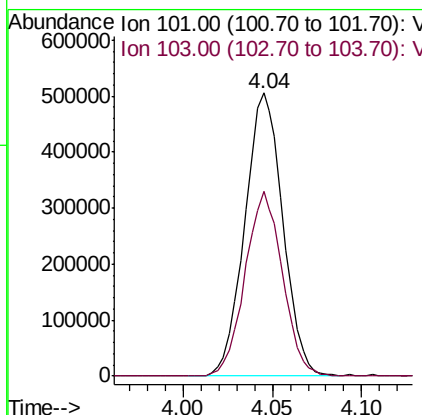
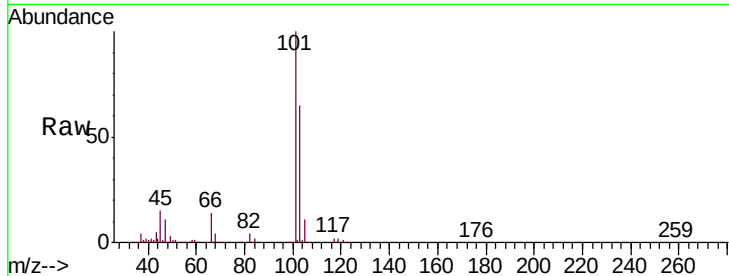
#11
 Trichlorofluoromethane
 Concen: 3.711 ppbv
 RT: 4.04 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2DUP

Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.4	77.0

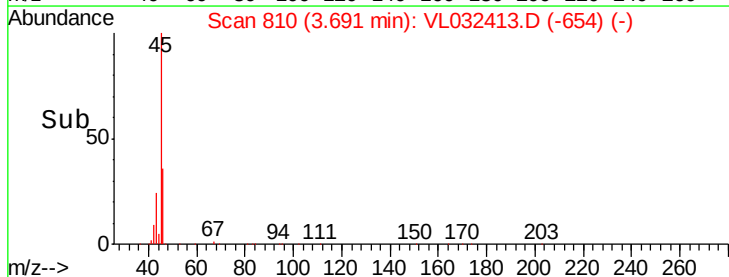
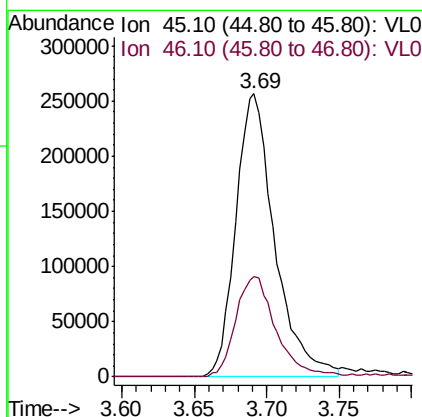
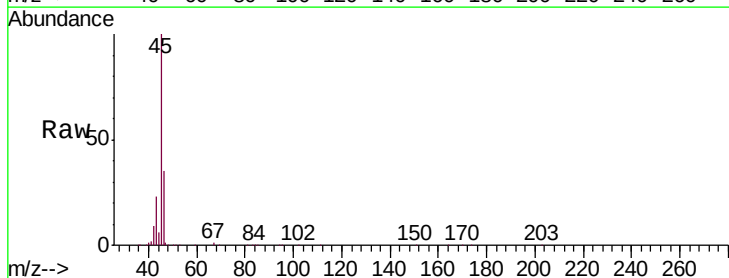
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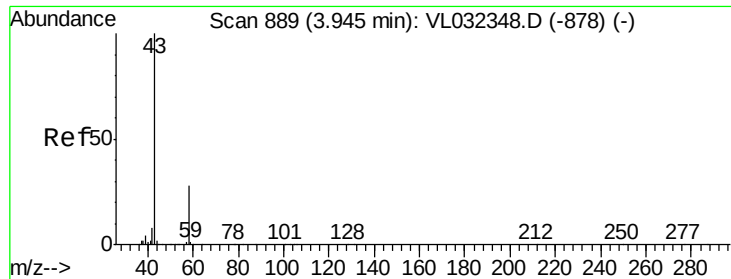
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#13
 Ethanol
 Concen: 25.913 ppbv
 RT: 3.69 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.7	15.6	62.4





#15

Acetone

Concen: 16.899 ppbv

RT: 3.94 min Scan# 886

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampleId :

SS-2DUP

Tgt Ion: 43 Resp: 2917782

Ion Ratio Lower Upper

43 100

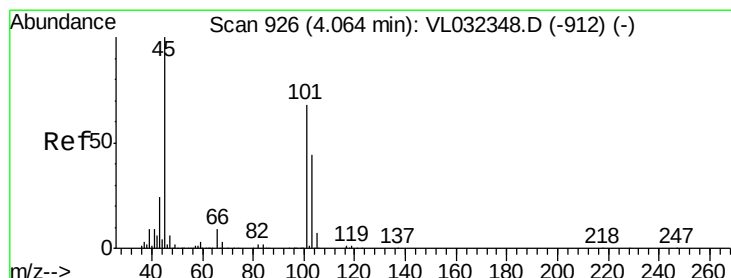
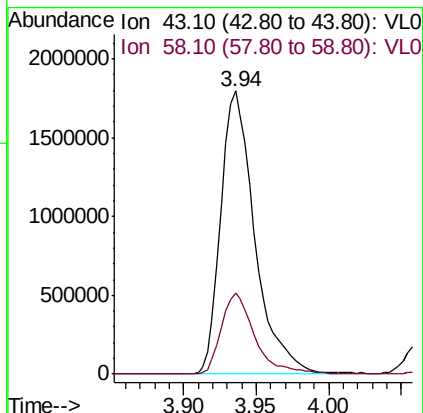
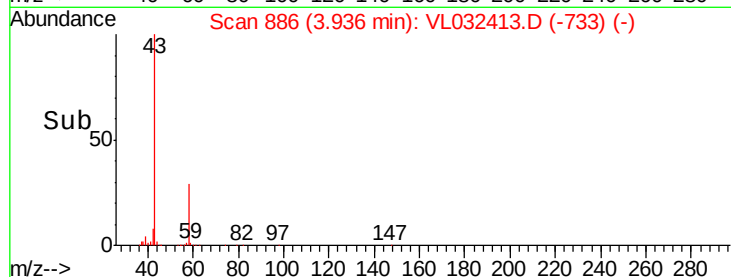
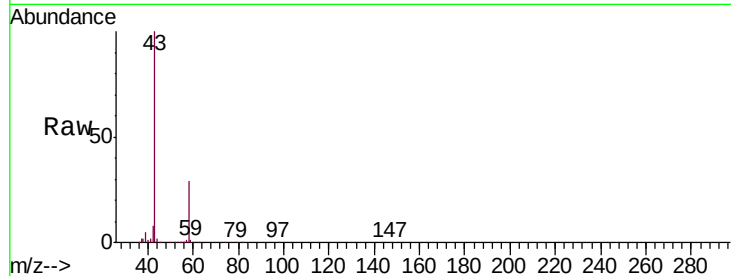
58 28.4 22.4 33.6

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#19

Isopropyl Alcohol

Concen: 16.016 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032413.D

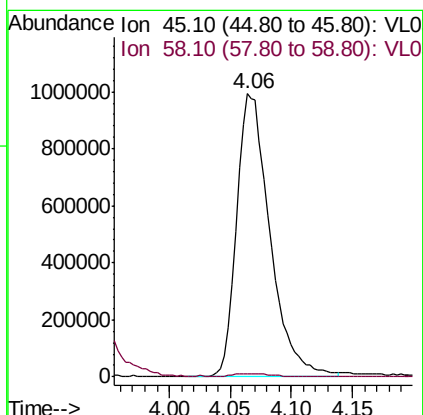
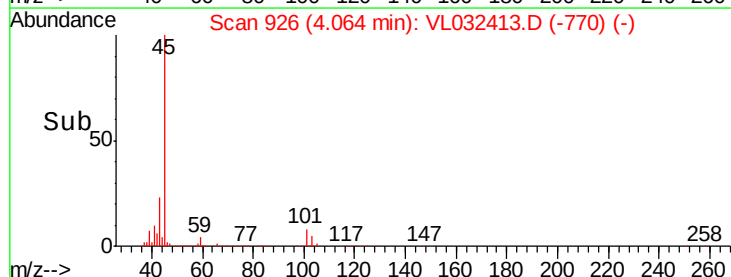
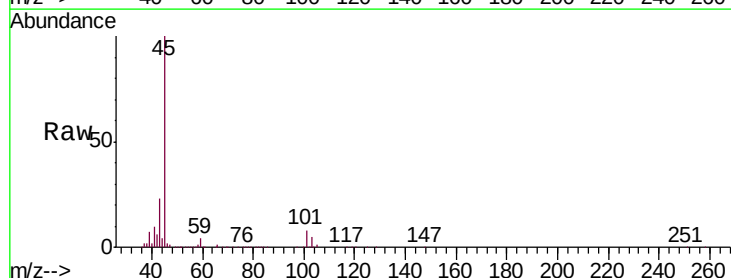
Acq: 20 Aug 2018 20:44

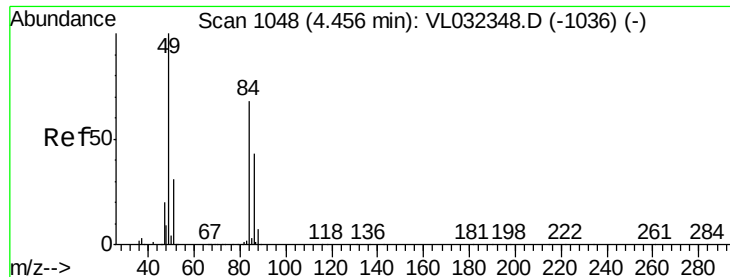
Tgt Ion: 45 Resp: 1862121

Ion Ratio Lower Upper

45 100

58 1.4 1.4 2.0





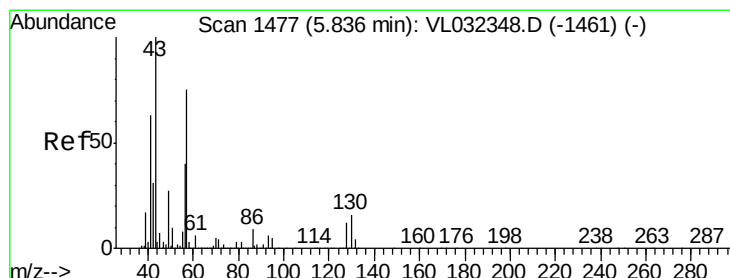
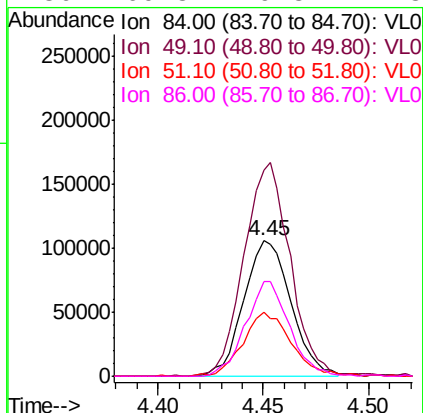
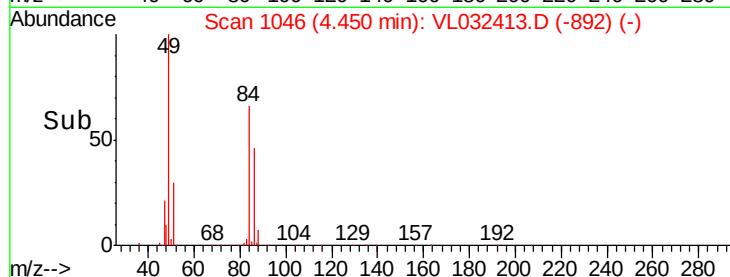
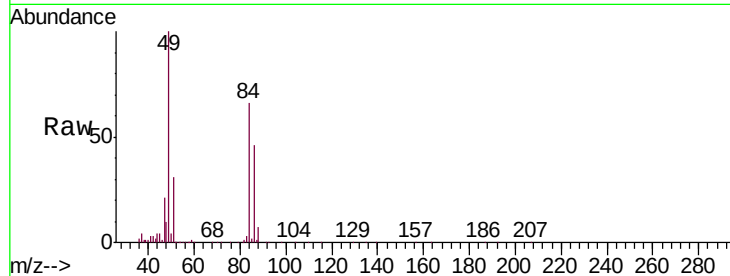
#20
Methylene Chloride
Concen: 2.521 ppbv
RT: 4.45 min Scan# 1046
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Instrument :
MSVOA_L
ClientSampled :
SS-2DUP

Tgt Ion	Ratio	Lower	Upper
84	100		
49	152.1	117.3	175.9
51	46.9	36.6	55.0
86	69.8	49.8	74.8

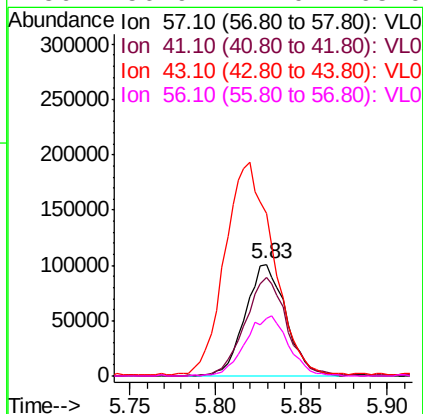
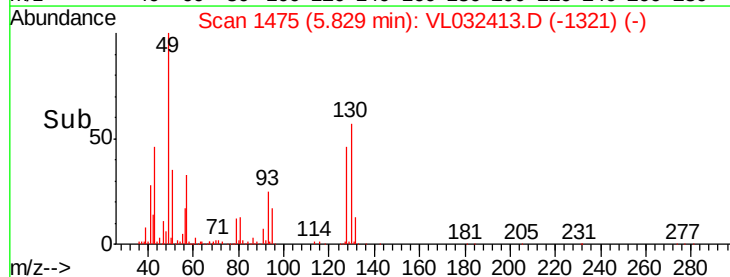
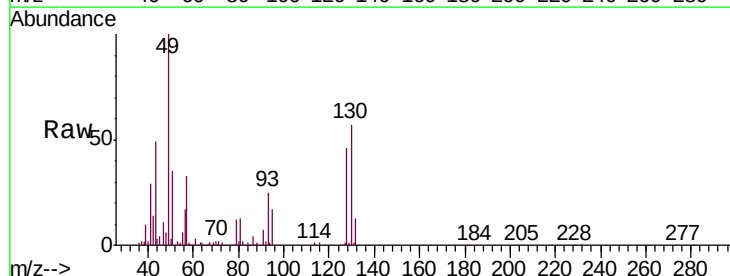
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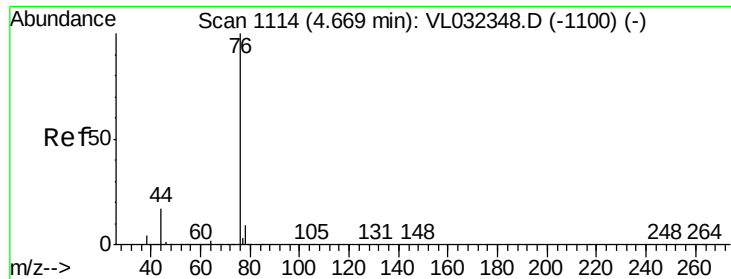
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#26
Hexane
Concen: 1.004 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.0	68.0	102.0
43	228.4	175.3	262.9
56	56.9	42.0	63.0





#27

Carbon Disulfide

Concen: 0.122 ppbv m

RT: 4.66 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

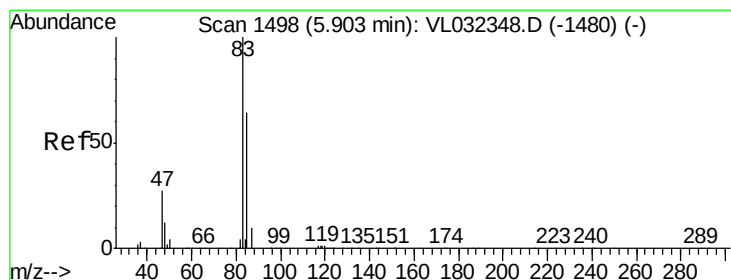
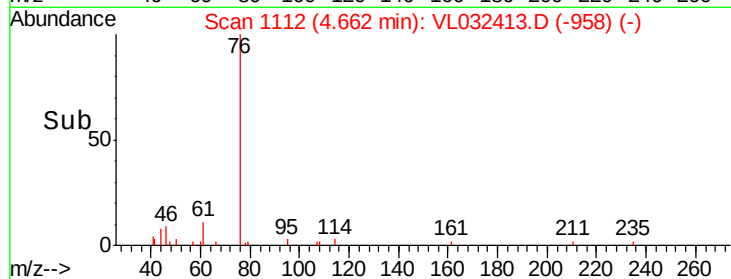
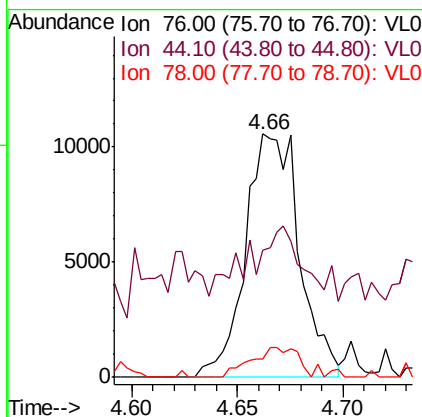
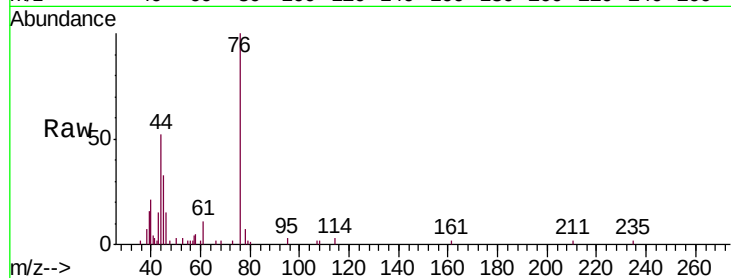
ClientSampled :

SS-2DUP

Tgt Ion:	76	Resp:	18720
Ion Ratio	Lower	Upper	
76	100		
44	81.4	14.4	21.6#
78	12.9	7.4	11.0#

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#29

Chloroform

Concen: 0.255 ppbv

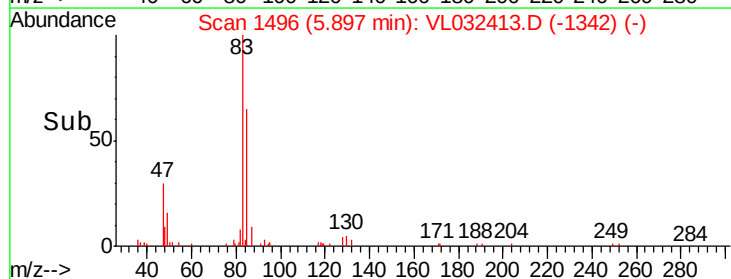
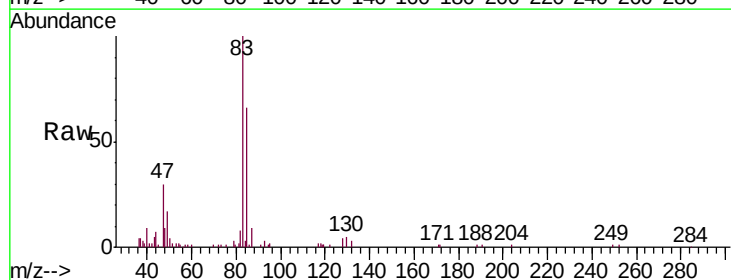
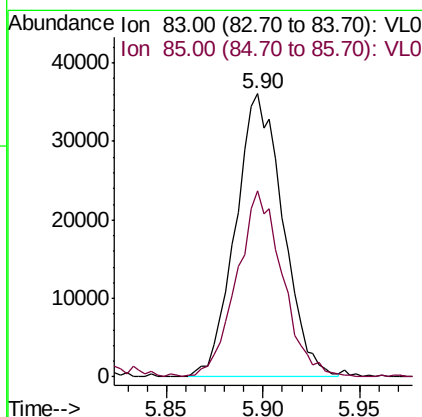
RT: 5.90 min Scan# 1496

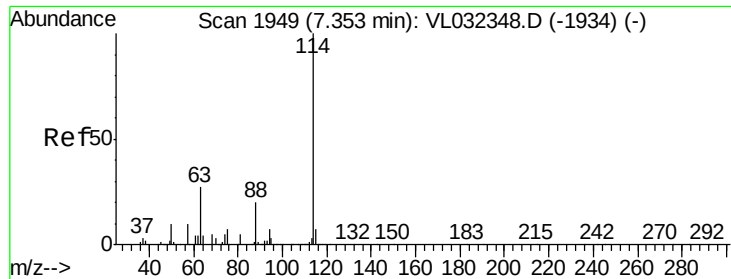
Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Tgt Ion:	83	Resp:	61554
Ion Ratio	Lower	Upper	
83	100		
85	65.0	51.6	77.4





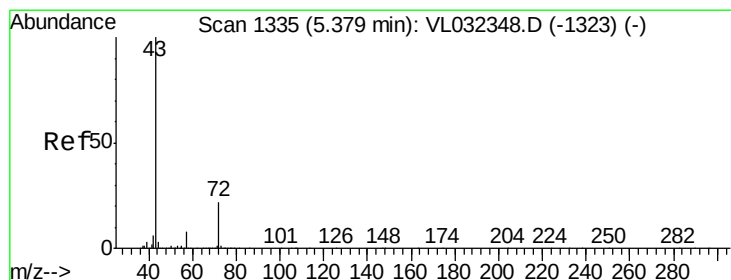
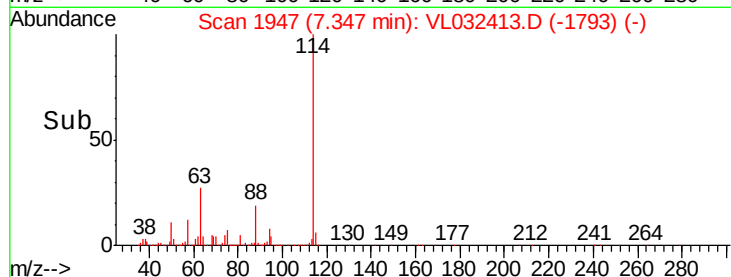
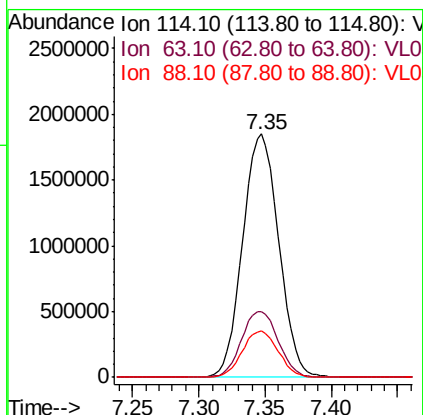
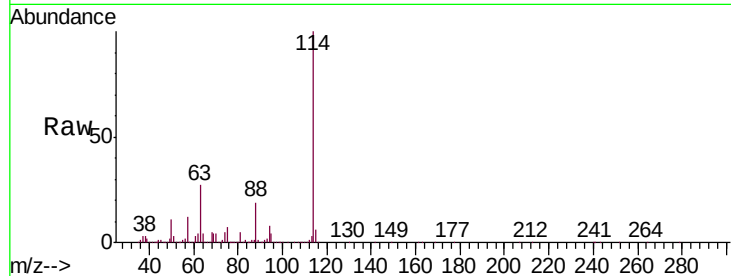
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DUP

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.0	33.0
88	18.9	15.3	22.9

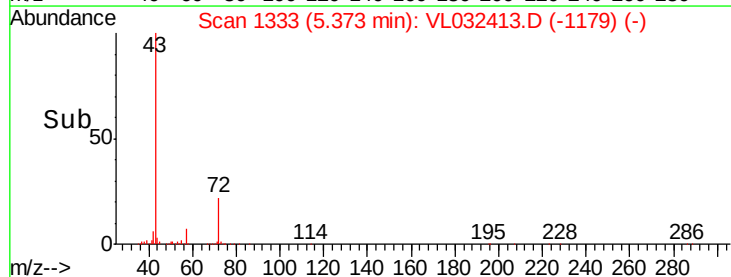
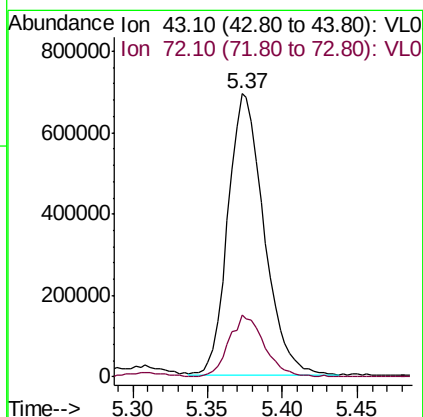
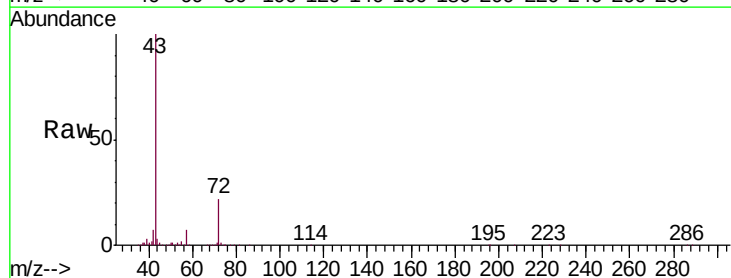
Manual Integrations
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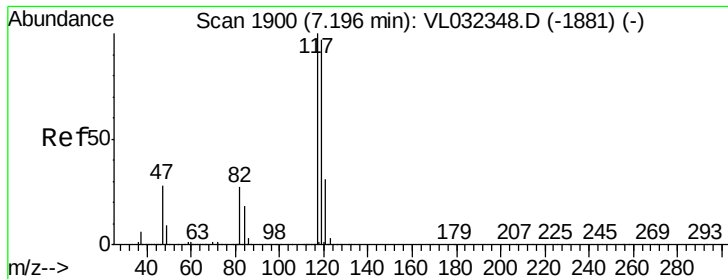
apatel
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#34
 2-Butanone
 Concen: 4.884 ppbv
 RT: 5.37 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.9	26.9





#35

Carbon Tetrachloride

Concen: 0.089 ppbv m

RT: 7.19 min Scan# 1897

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

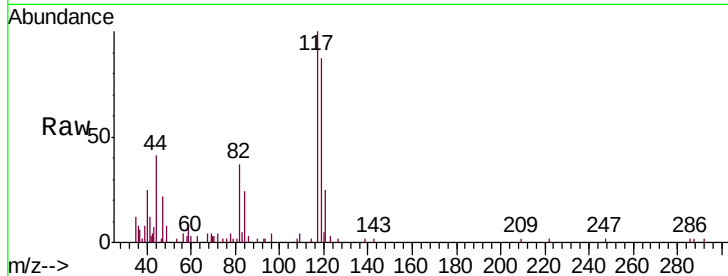
ClientSampled :

SS-2DUP

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	18307		
119	86.7	77.2	115.8	
121	24.7	25.1	37.7#	

Manual Integrations
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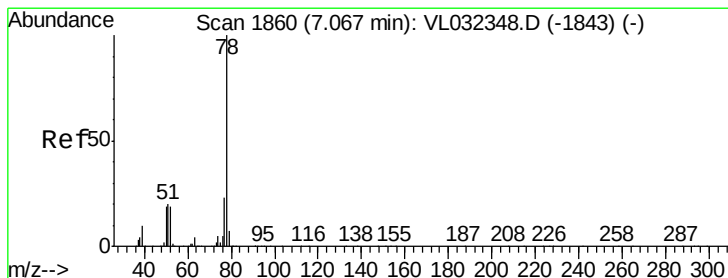
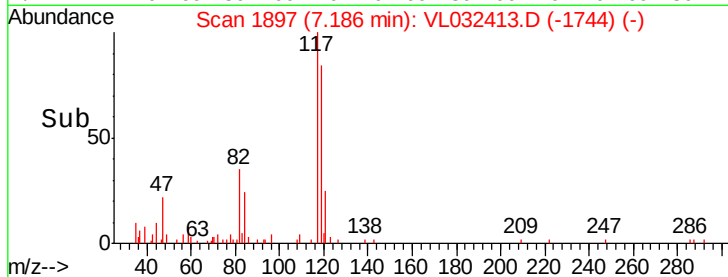
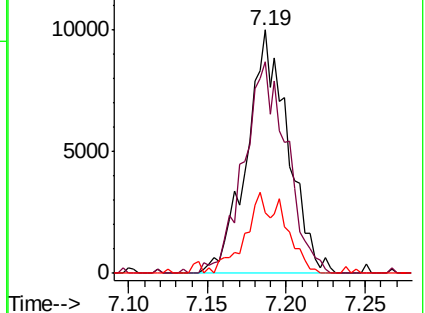
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.838 ppbv

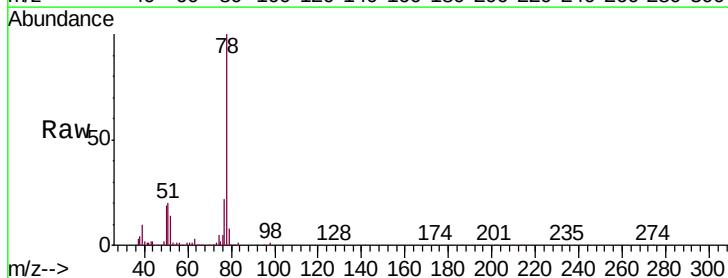
RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

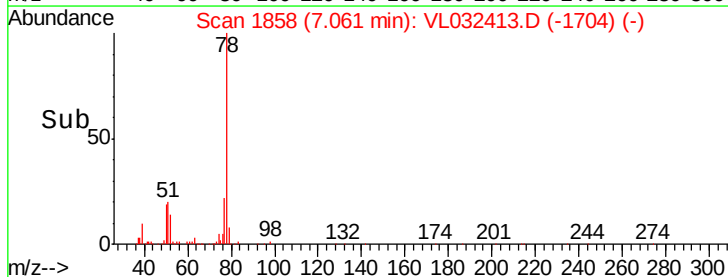
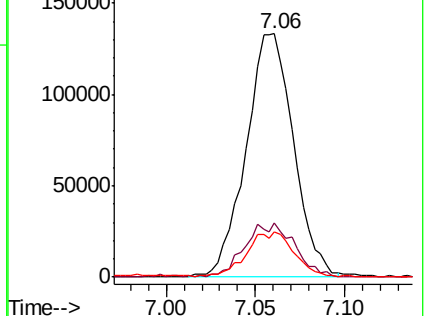
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	248598		
77	21.6	18.0	27.0	
50	18.2	15.1	22.7	

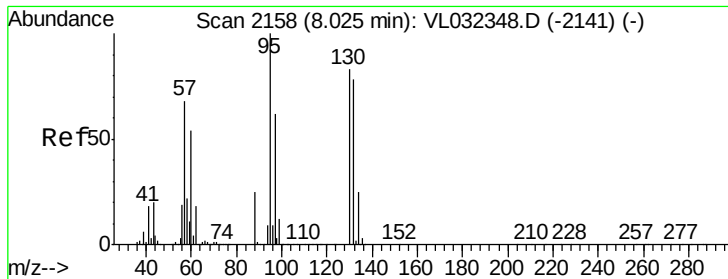


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





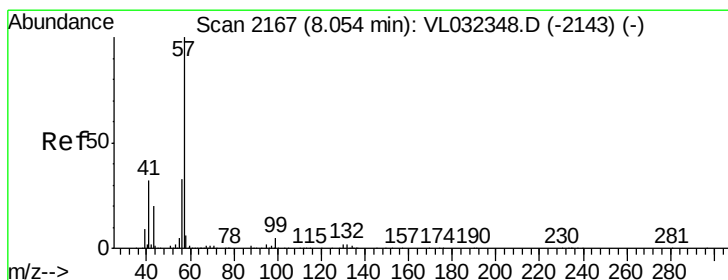
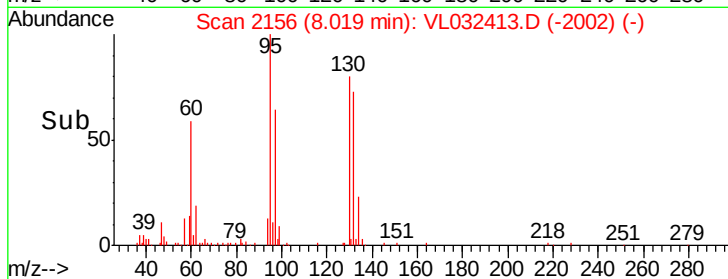
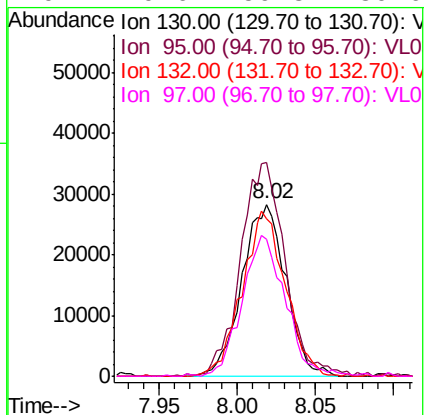
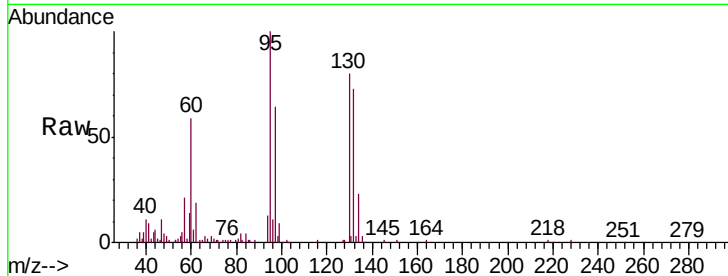
#38
 Trichloroethene
 Concen: 0.530 ppbv m
 RT: 8.02 min Scan# 2156
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2DUP

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	55160		
95	124.4	96.6	144.8	
132	91.4	75.5	113.3	
97	79.6	59.8	89.6	

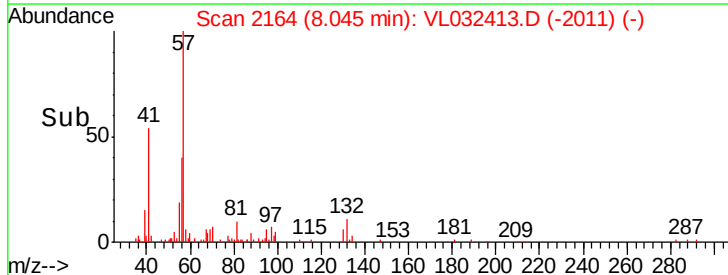
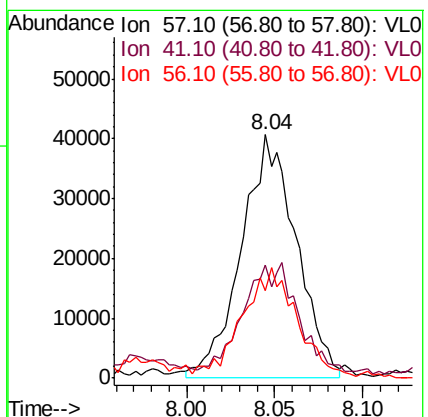
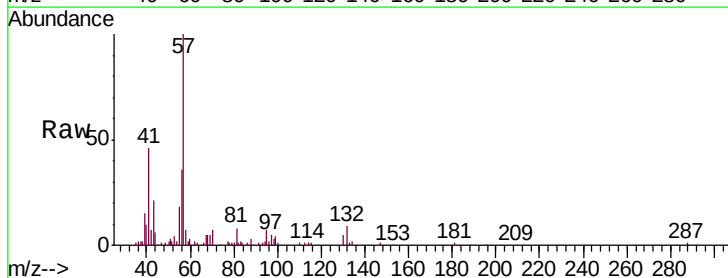
Manual Integrations
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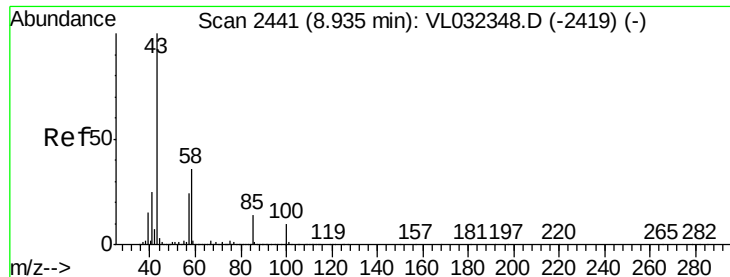
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#44
 2,2,4-Trimethylpentane
 Concen: 0.165 ppbv m
 RT: 8.04 min Scan# 2164
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	88307		
41	45.7	24.3	36.5#	
56	47.7	25.7	38.5#	





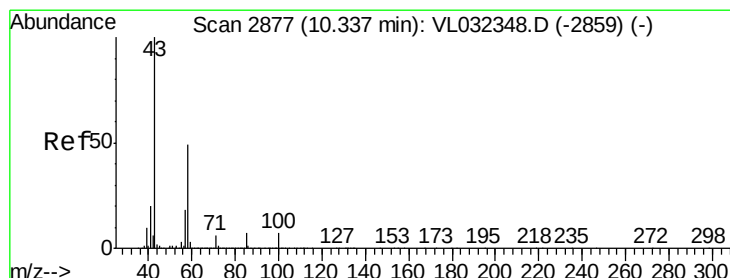
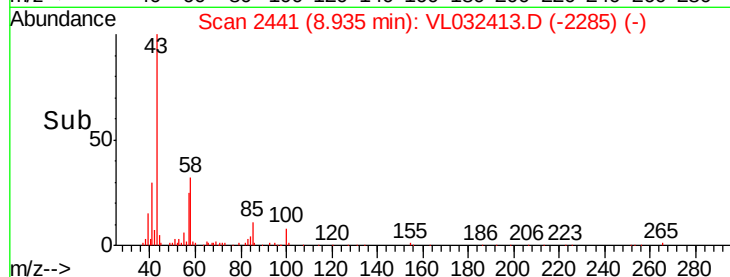
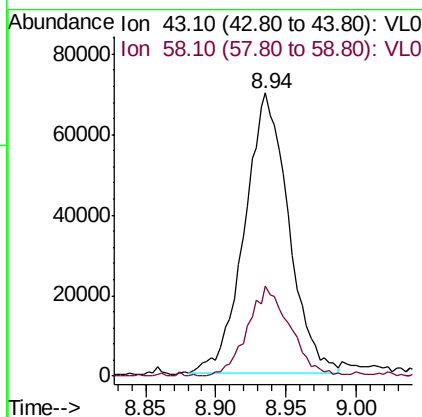
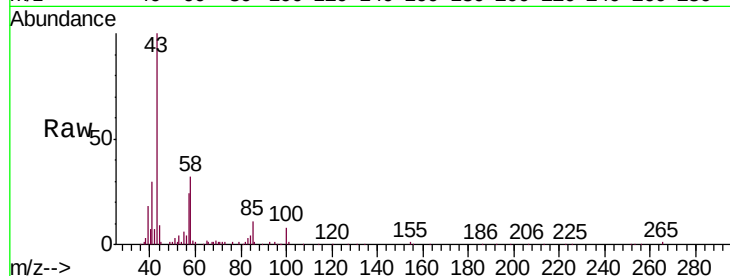
#50
 4-Methyl-2-Pentanone
 Concen: 0.444 ppbv
 RT: 8.94 min Scan# 2441
 Delta R.T. 0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DUP

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.2	28.9	43.3

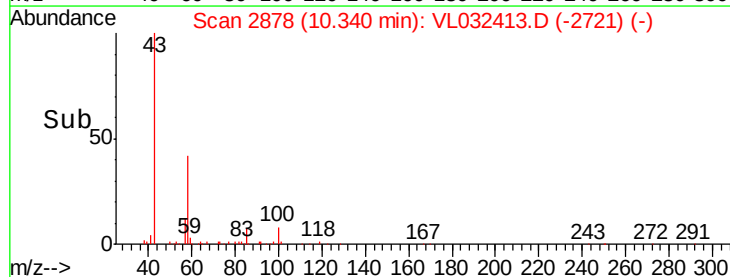
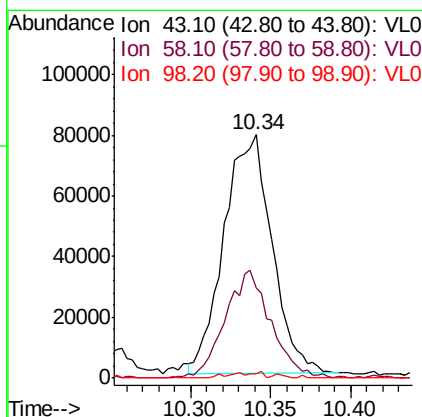
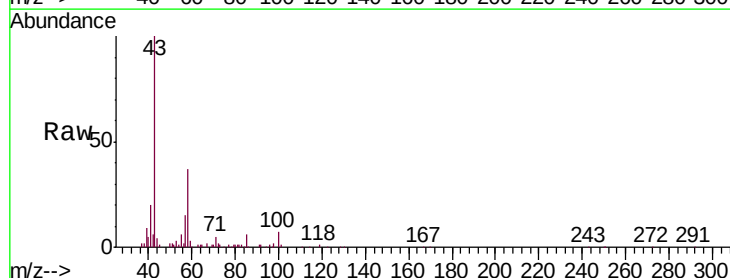
Manual Integrations
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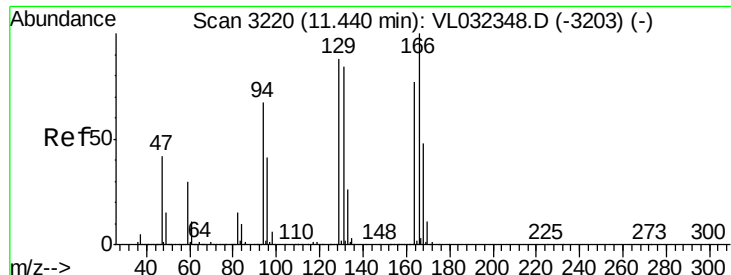
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#51
 2-Hexanone
 Concen: 0.668 ppbv
 RT: 10.34 min Scan# 2878
 Delta R.T. 0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.5	39.5	59.3
98	2.3	0.3	0.5#





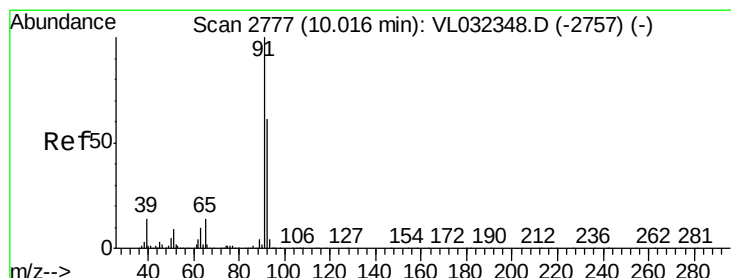
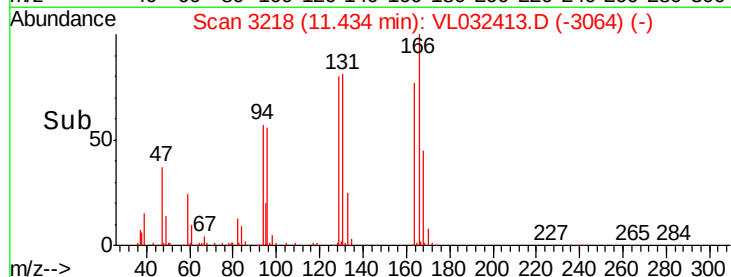
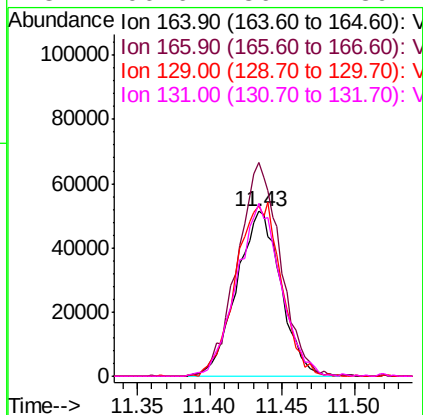
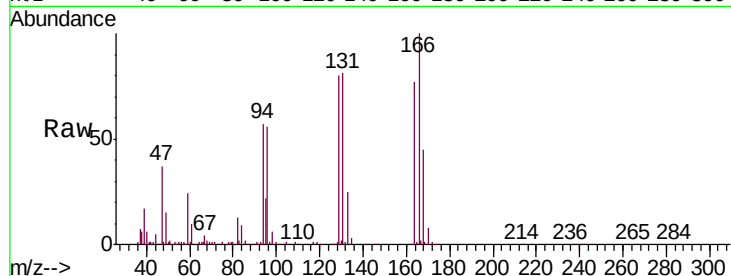
#52
Tetrachloroethene
Concen: 1.240 ppbv
RT: 11.43 min Scan# 3218
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Instrument :
MSVOA_L
ClientSampled :
SS-2DUP

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	128.9	108539	103.5	155.3
129	102.4		90.9	136.3
131	106.6		86.7	130.1

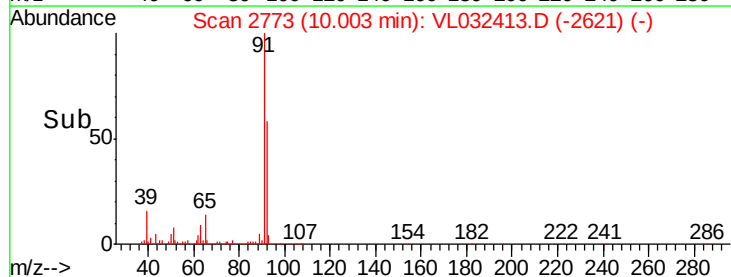
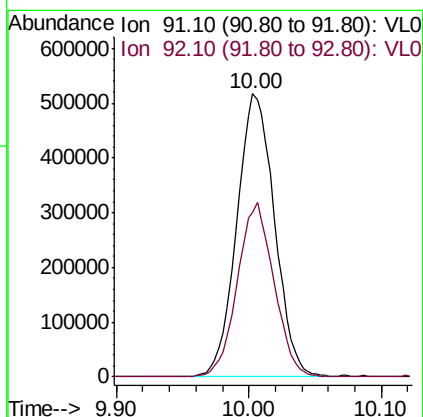
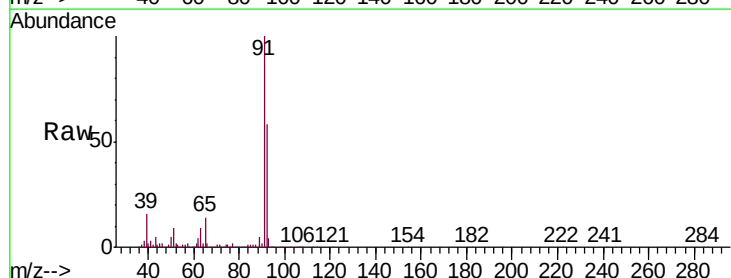
Manual Integrations
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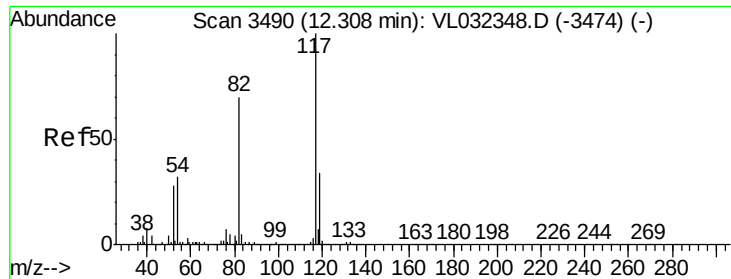
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#53
Toluene
Concen: 3.145 ppbv
RT: 10.00 min Scan# 2773
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1023422		
92	59.9		48.7	73.1





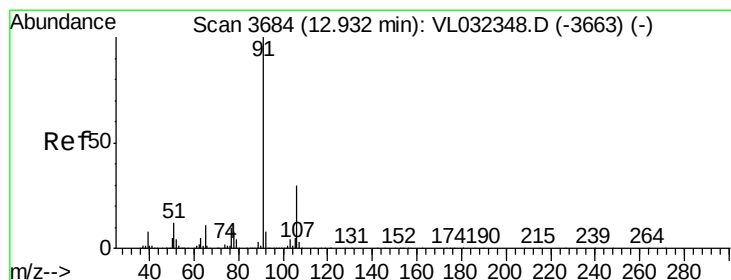
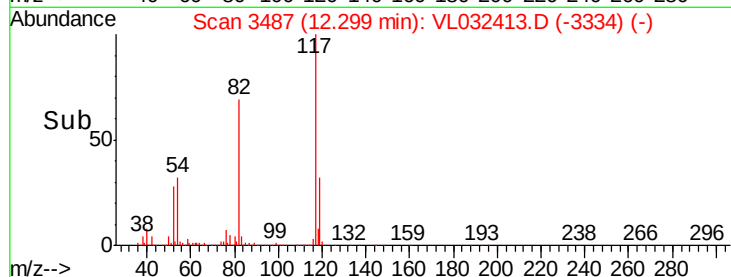
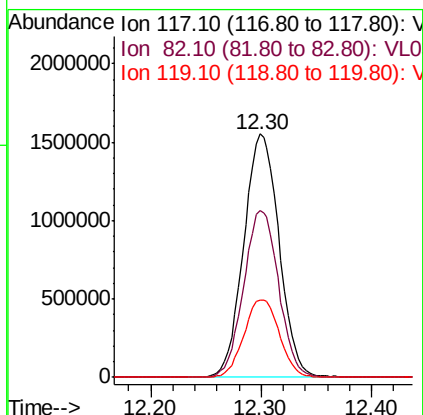
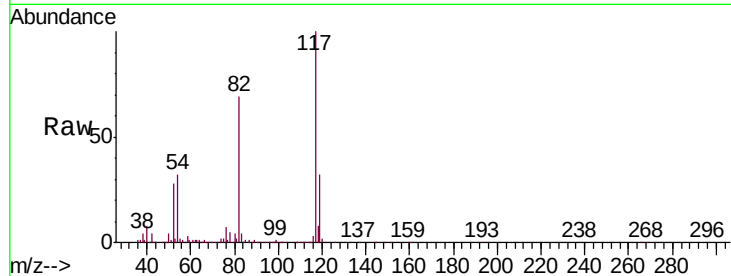
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3487
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Instrument :
MSVOA_L
ClientSampleId :
SS-2DUP

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.1	55.1	82.7
119	32.3	46.0	69.0

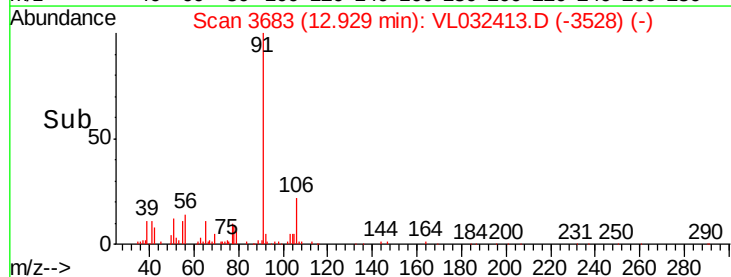
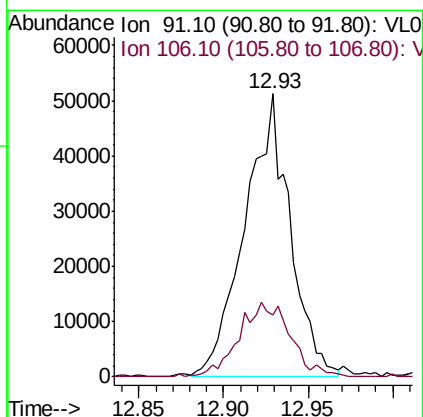
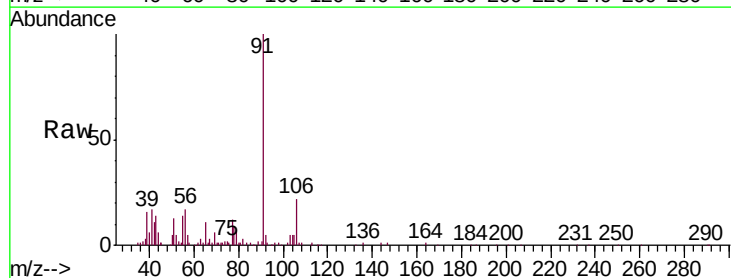
Manual Integrations
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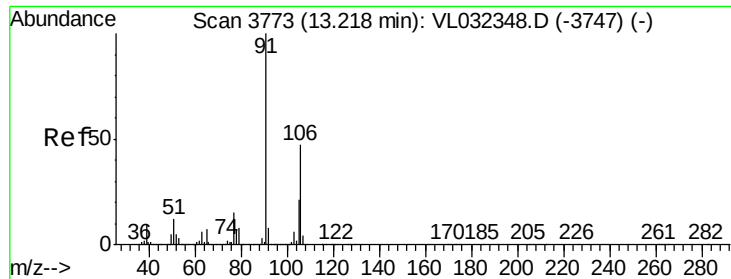
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#58
Ethyl Benzene
Concen: 0.230 ppbv m
RT: 12.93 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	22.1	24.3	36.5





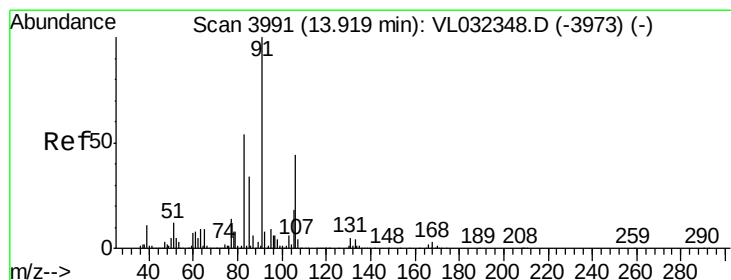
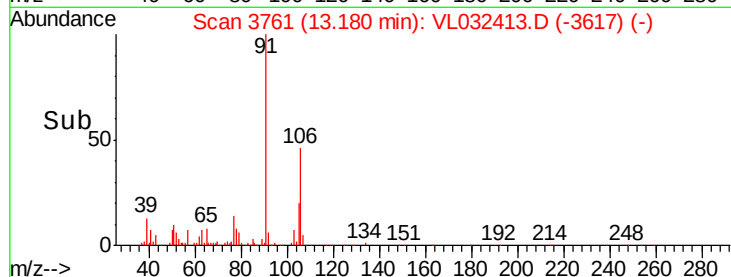
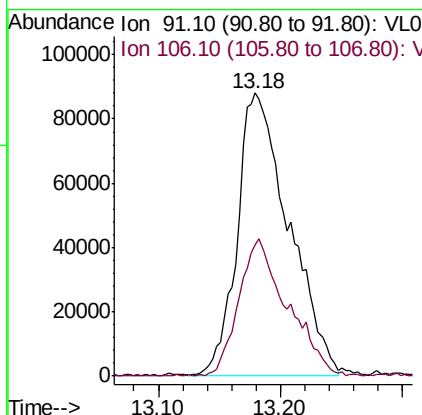
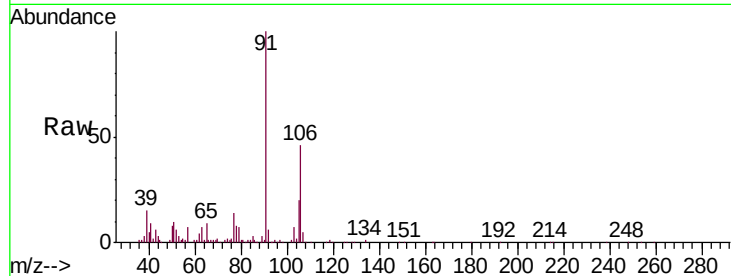
#59
m/p-Xylene
Concen: 0.732 ppbv
RT: 13.18 min Scan# 3761
Delta R.T. -0.04 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Instrument :
MSVOA_L
ClientSampled :
SS-2DUP

Tgt Ion: 91 Resp: 257548
Ion Ratio Lower Upper
91 100
106 45.8 37.0 55.4

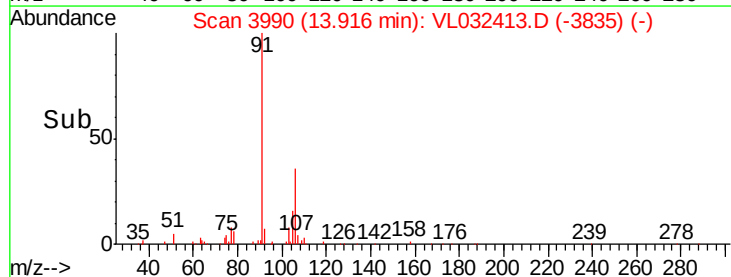
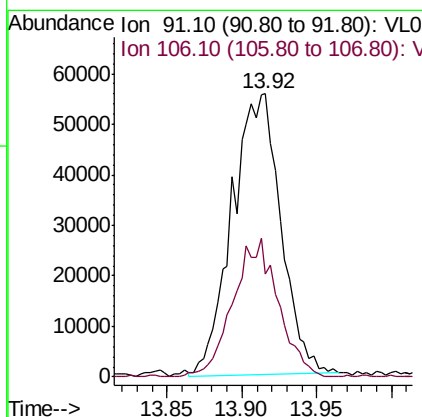
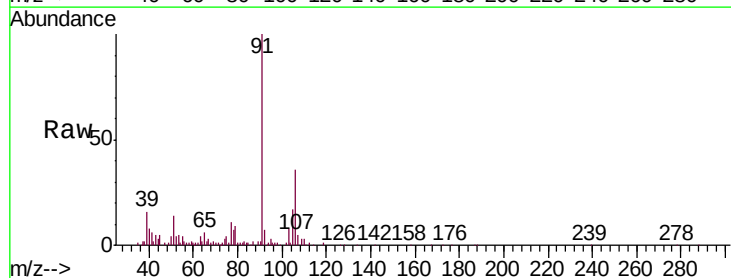
Manual Integrations
APPROVED

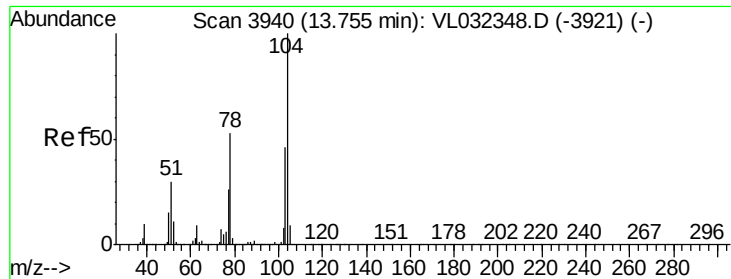
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#60
o-Xylene
Concen: 0.365 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. -0.00 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Tgt Ion: 91 Resp: 126120
Ion Ratio Lower Upper
91 100
106 45.5 22.3 66.8





#61

Styrene

Concen: 0.237 ppbv m

RT: 13.74 min Scan# 3936

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

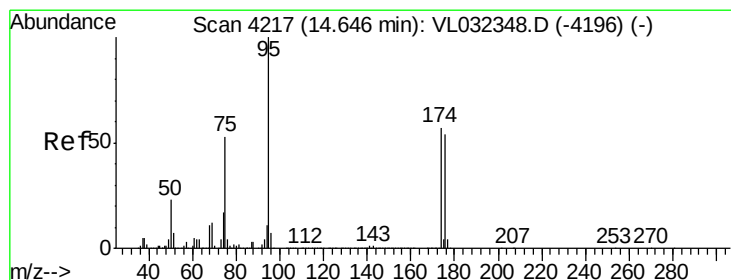
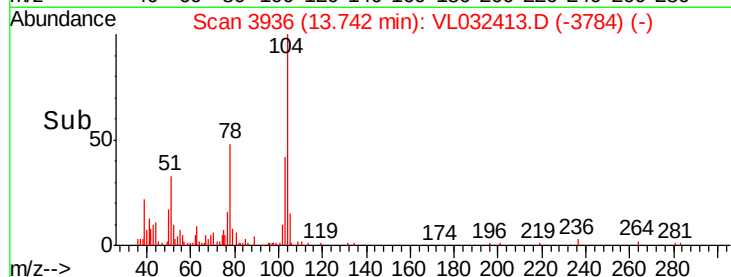
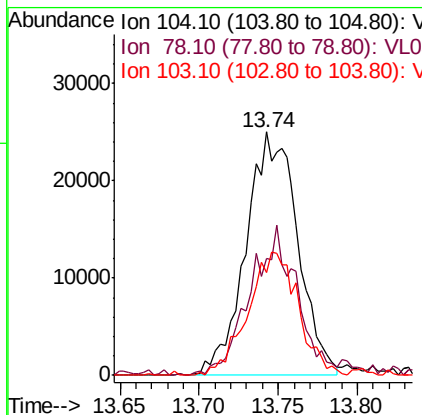
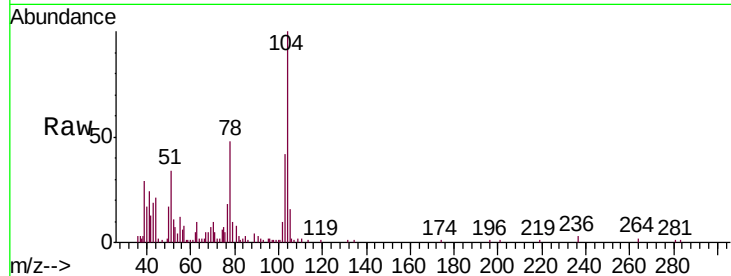
ClientSampled :

SS-2DUP

Tgt Ion:	104	Resp:	57338
Ion Ratio	Lower	Upper	
104	100		
78	0.0	42.6	64.0#
103	0.0	38.0	57.0#

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.134 ppbv

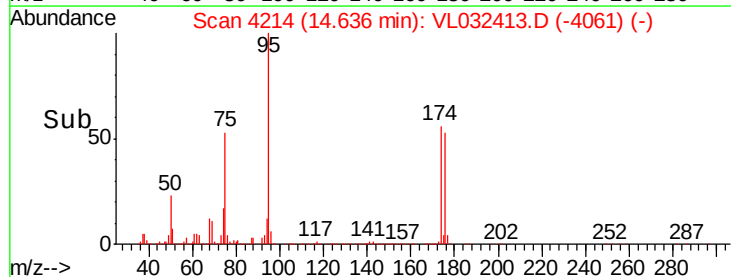
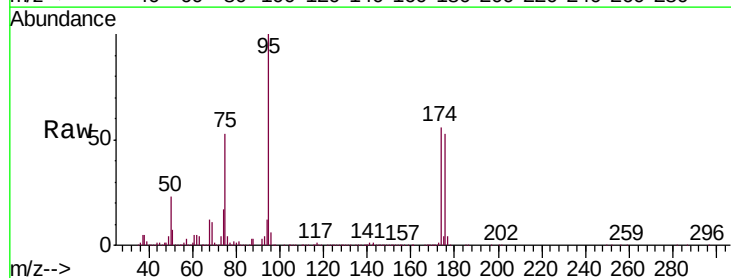
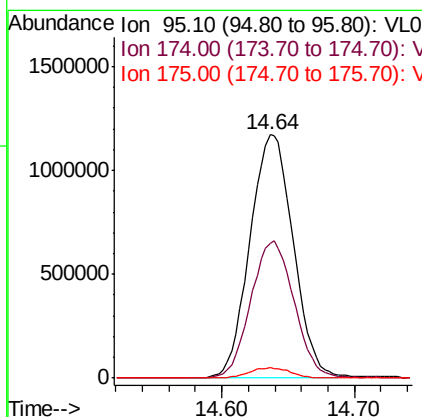
RT: 14.64 min Scan# 4214

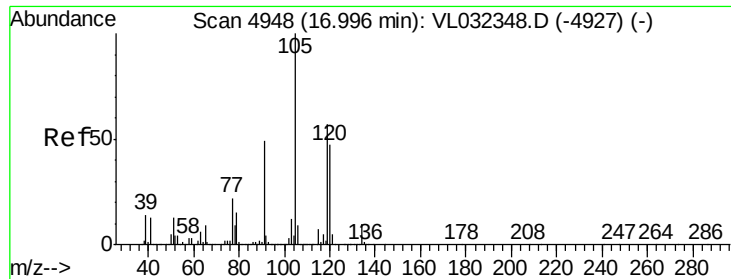
Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Tgt Ion:	95	Resp:	2659919
Ion Ratio	Lower	Upper	
95	100		
174	57.0	46.2	69.4
175	4.1	3.4	5.0





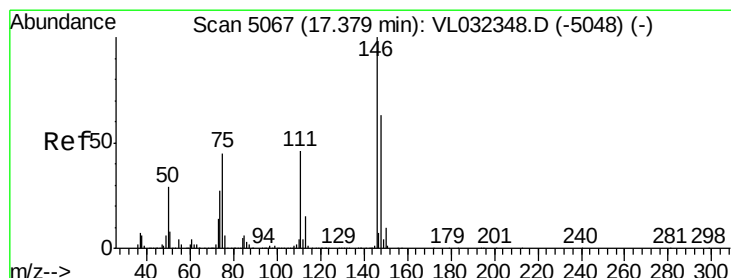
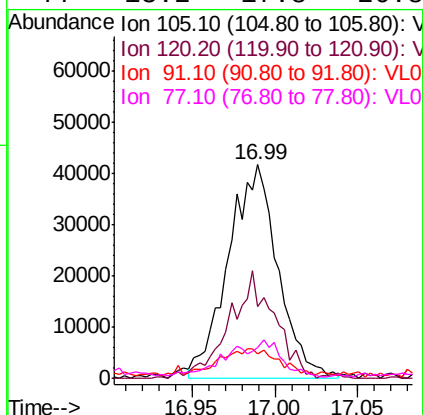
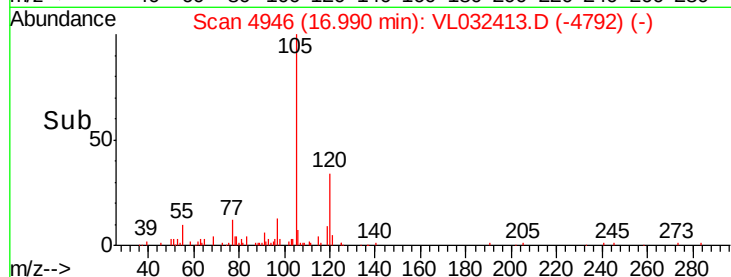
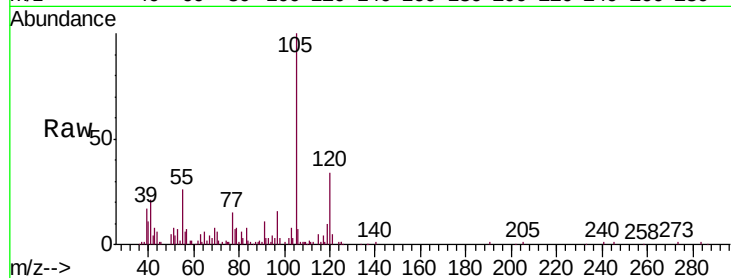
#74
 1,2,4-Trimethylbenzene
 Concen: 0.219 ppbv
 RT: 16.99 min Scan# 4946
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2DUP

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	86565		
120	31.8	37.6	56.4#	
91	10.6	39.9	59.9#	
77	13.2	17.8	26.8#	

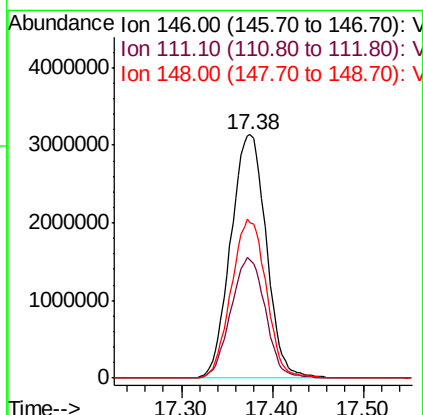
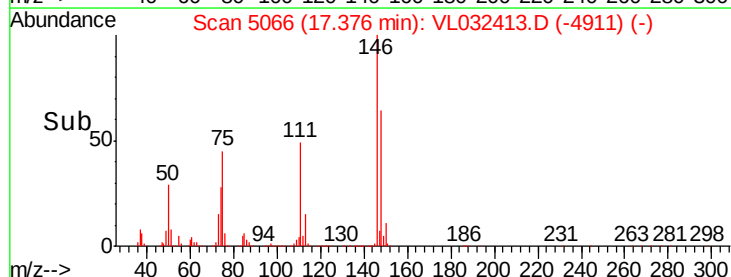
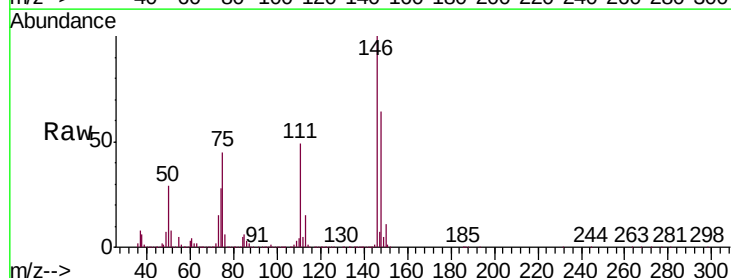
Manual Integrations
 APPROVED

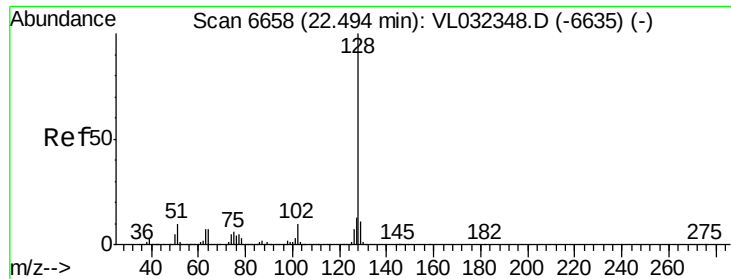
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#76
 1,4-Dichlorobenzene
 Concen: 37.918 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	8514927		
111	48.3	23.8	71.4	
148	64.6	32.2	96.6	





#79
Naphthalene
Concen: 0.332 ppbv m
RT: 22.49 min Scan# 6656
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Instrument :
MSVOA_L
ClientSampleId :
SS-2DUP

Tgt Ion	Ratio	Lower	Upper
128	100		
127	8.3	10.3	15.5#
129	12.9	8.6	13.0

Manual Integrations
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