

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033935.D
 Acq On : 24 Jun 2019 13:58
 Operator : SY/AP
 Sample : K3481-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-A-2

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:15:33 AM

Quant Time: Jun 25 03:58:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	981356	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.27	114	2187762	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2452396	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.55	95	2094760	10.40	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	52043	0.327	ppbv	94
3) Chlorodifluoromethane	3.01	51	42803m	0.370	ppbv	
4) Chloromethane	3.16	50	26715	0.405	ppbv	95
9) Propene	3.04	41	21096	0.488	ppbv #	78
11) Trichlorofluoromethane	3.99	101	41172	0.200	ppbv	91
13) Ethanol	3.64	45	55931m	3.977	ppbv	
15) Acetone	3.89	43	497007	3.472	ppbv	98
19) Isopropyl Alcohol	4.03	45	25635m	0.314	ppbv	
20) Methylene Chloride	4.39	84	58032	1.040	ppbv	94
26) Hexane	5.76	57	58262	0.587	ppbv #	41
34) 2-Butanone	5.32	43	128628	1.042	ppbv	97
35) Carbon Tetrachloride	7.11	117	11766m	0.070	ppbv	
36) Benzene	6.98	78	18057m	0.108	ppbv	
52) Tetrachloroethene	11.34	164	17383m	0.296	ppbv	
53) Toluene	9.92	91	204189	1.104	ppbv	97
58) Ethyl Benzene	12.84	91	451654	1.634	ppbv	99
59) m/p-Xylene	13.09	91	2280735	9.071	ppbv	98
60) o-Xylene	13.82	91	766573	2.953	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	28727	0.099	ppbv	93
74) 1,2,4-Trimethylbenzene	16.89	105	86402	0.258	ppbv #	80

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

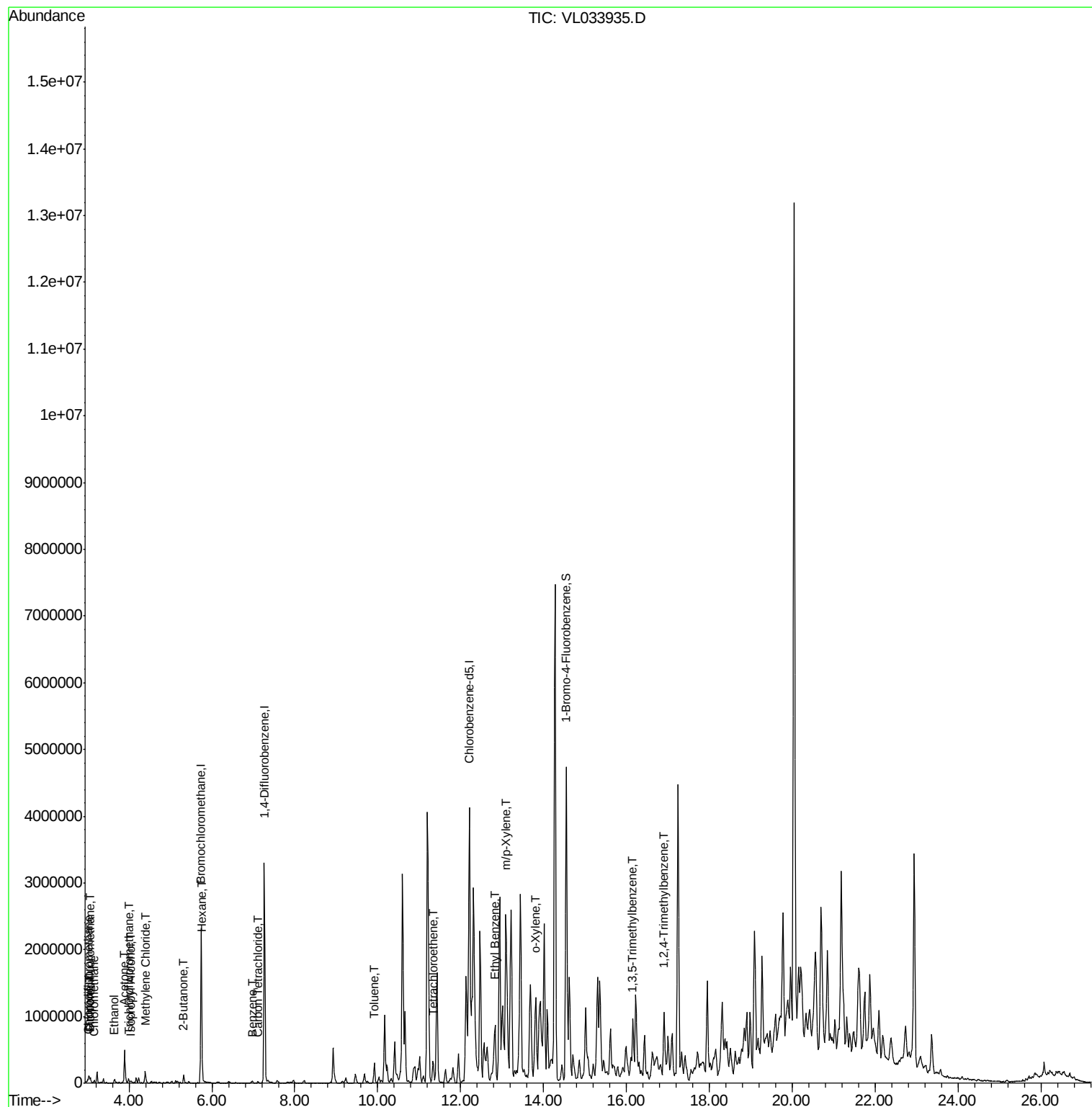
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
Data File : VL033935.D
Acq On : 24 Jun 2019 13:58
Operator : SY/AP
Sample : K3481-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

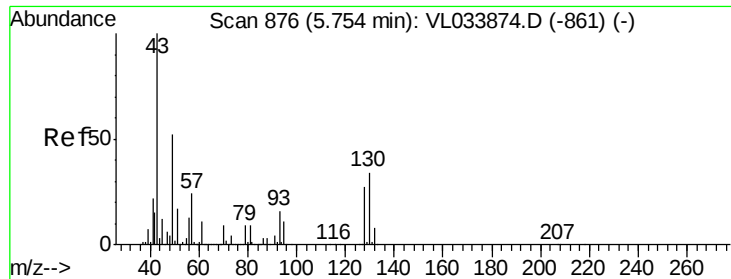
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

Manual Integrations
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6/26/2019 8:15:33 AM

Quant Time: Jun 25 03:58:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.02 min

Lab File: VL033935.D

Acq: 24 Jun 2019 13:58

Instrument :

MSVOA_L

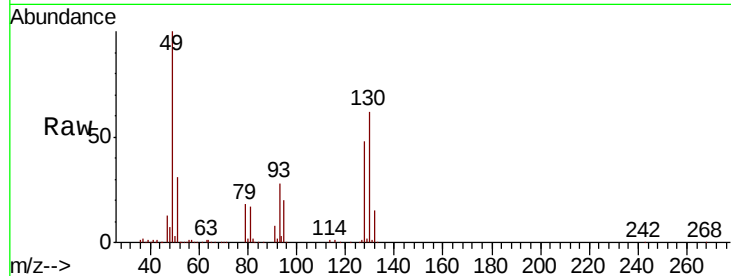
ClientSampleId :

TZC-SSDS-AREA-A-2

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.5	25.5	76.5
130	64.4	32.5	97.4

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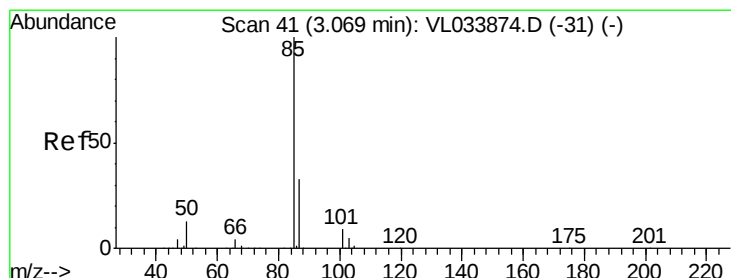
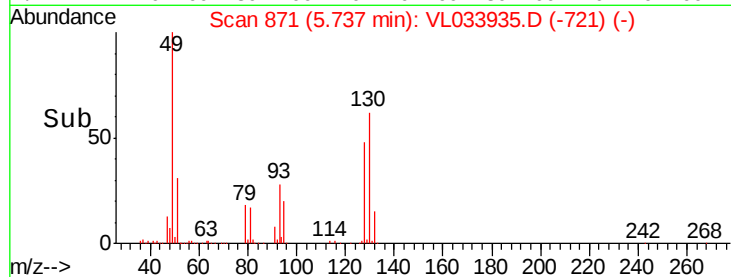
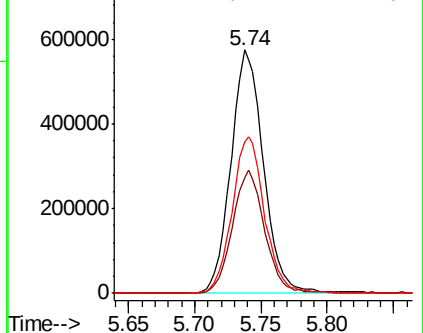
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.327 ppbv

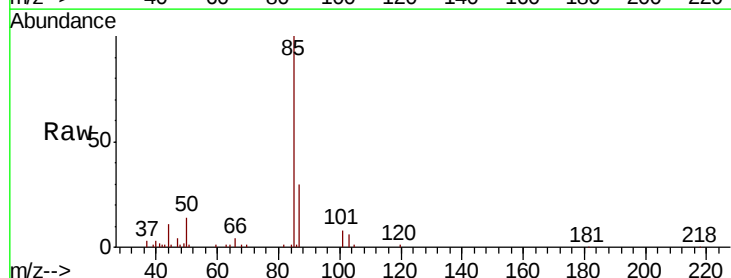
RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033935.D

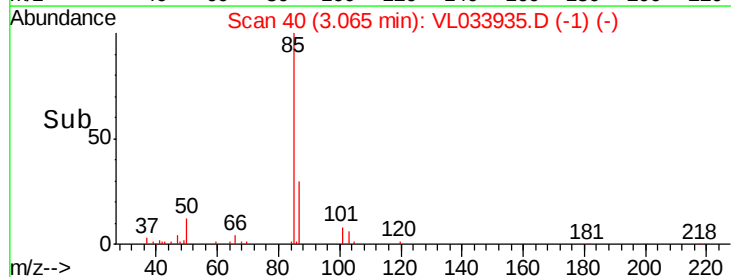
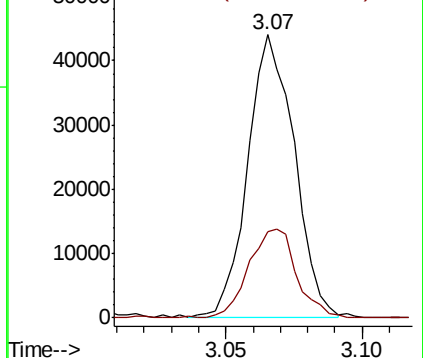
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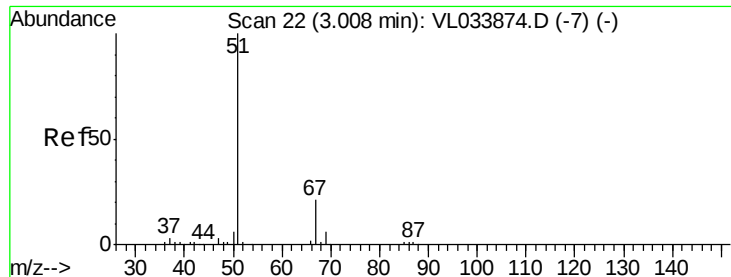
Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.0	26.6	40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





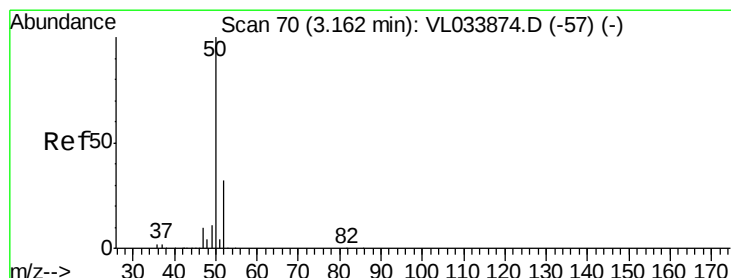
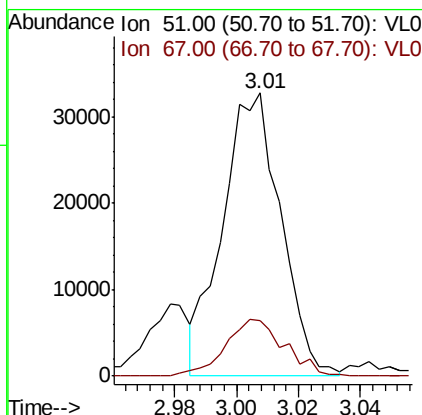
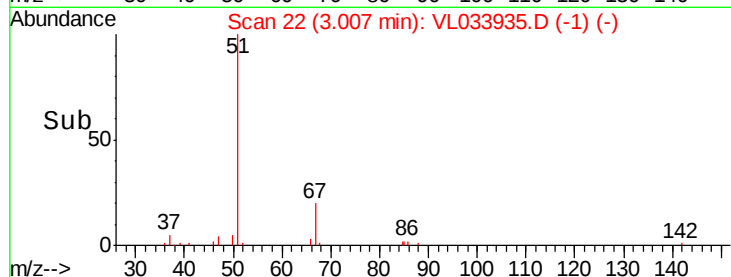
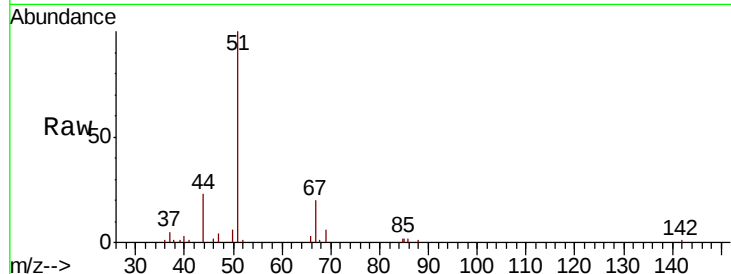
#3
Chlorodifluoromethane
Concen: 0.370 ppbv
RT: 3.01 min Scan# 22
Delta R.T. -0.00 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

Tot Ion: 51 Resp: 42803
Ion Ratio Lower Upper
51 100
67 20.4 16.4 24.6

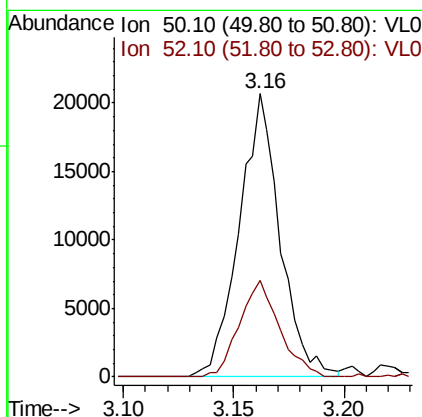
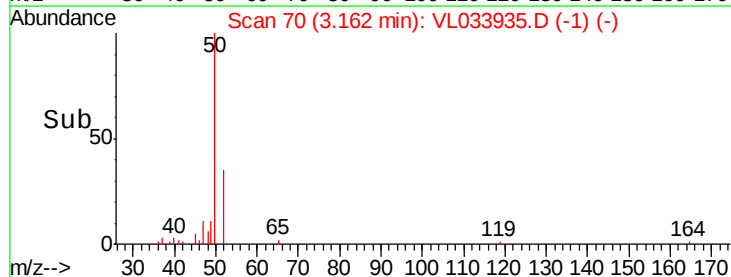
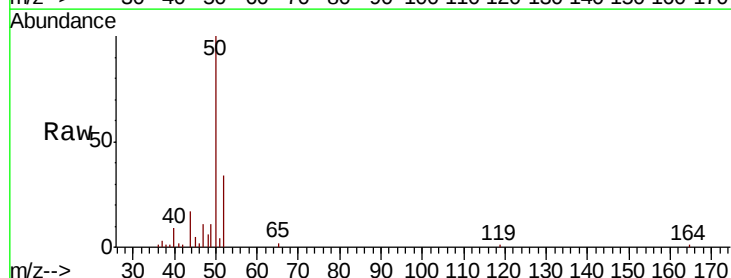
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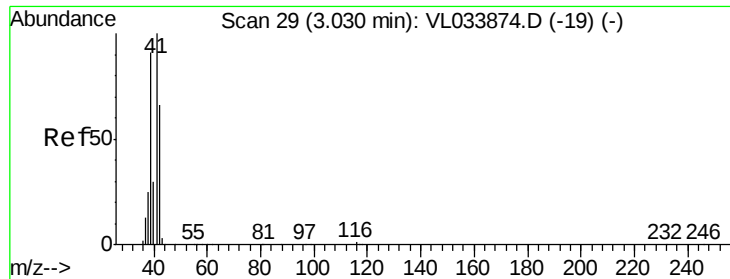
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#4
Chloromethane
Concen: 0.405 ppbv
RT: 3.16 min Scan# 70
Delta R.T. -0.00 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Tgt Ion: 50 Resp: 26715
Ion Ratio Lower Upper
50 100
52 34.2 25.4 38.0





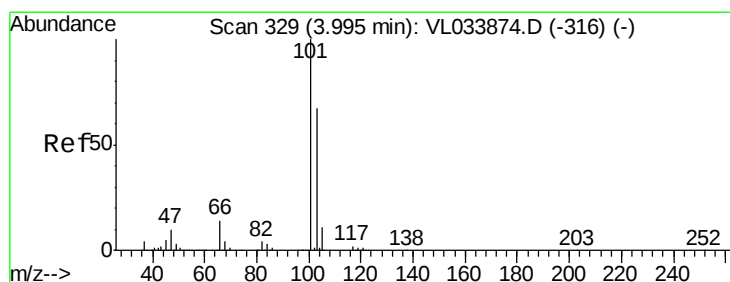
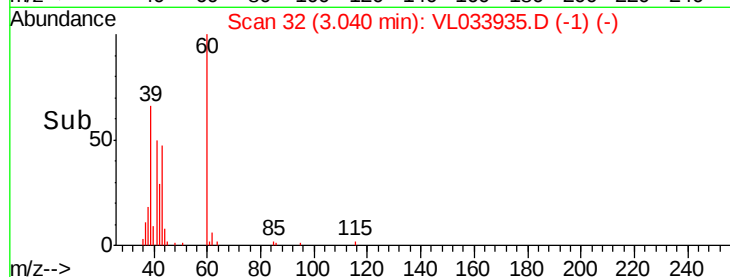
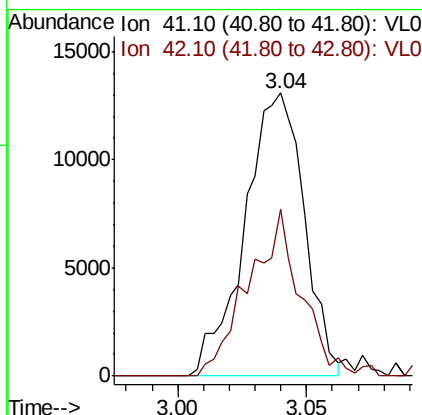
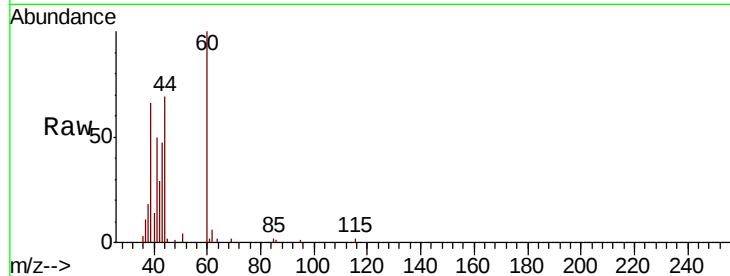
#9
 Propene
 Concen: 0.488 ppbv
 RT: 3.04 min Scan# 32
 Delta R.T. 0.01 min
 Lab File: VL033935.D
 Acq: 24 Jun 2019 13:58

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-A-2

Tot Ion: 41 Resp: 21096
 Ion Ratio Lower Upper
 41 100
 42 52.5 56.3 84.5#

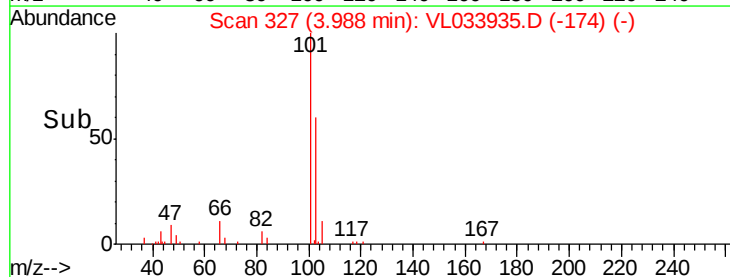
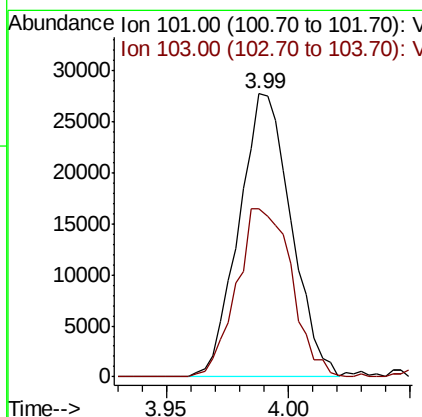
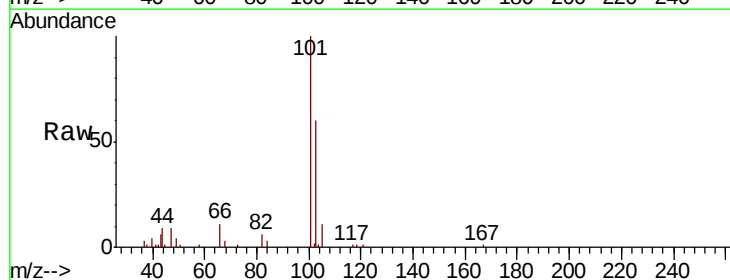
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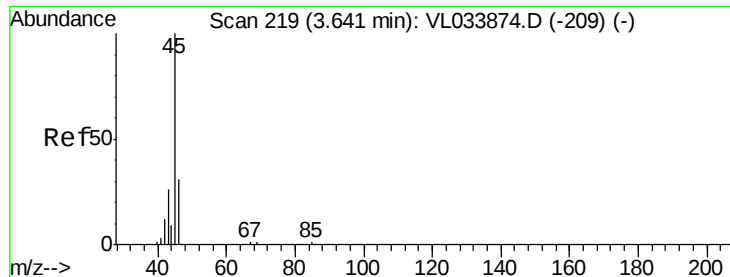
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#11
 Trichlorofluoromethane
 Concen: 0.200 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: VL033935.D
 Acq: 24 Jun 2019 13:58

Tgt Ion: 101 Resp: 41172
 Ion Ratio Lower Upper
 101 100
 103 59.5 53.6 80.4





#13

Ethanol

Concen: 3.977 ppbv m

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033935.D

Acq: 24 Jun 2019 13:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-2

Tot Ion: 45 Resp: 55931

Ion Ratio Lower Upper

45 100

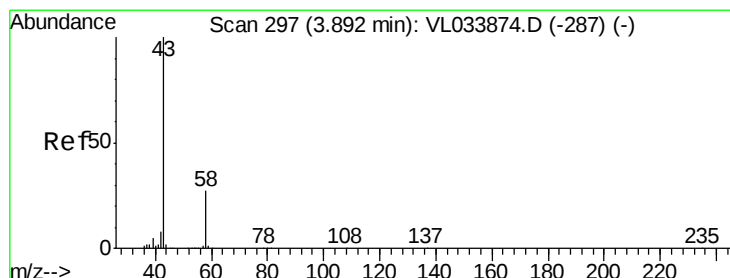
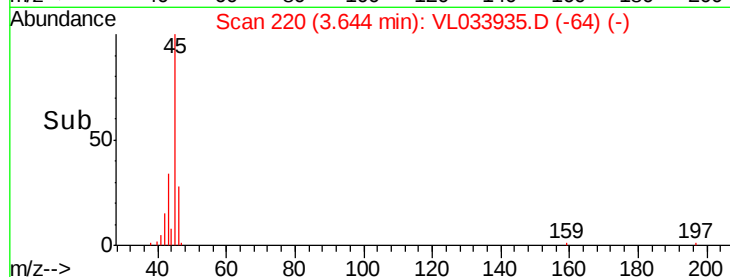
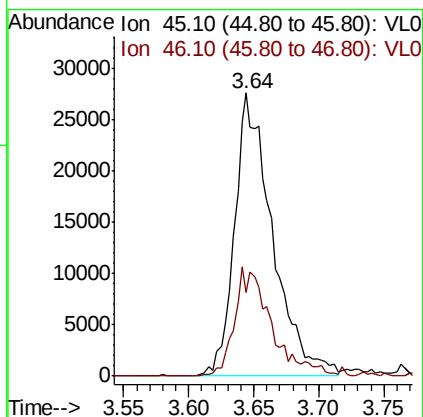
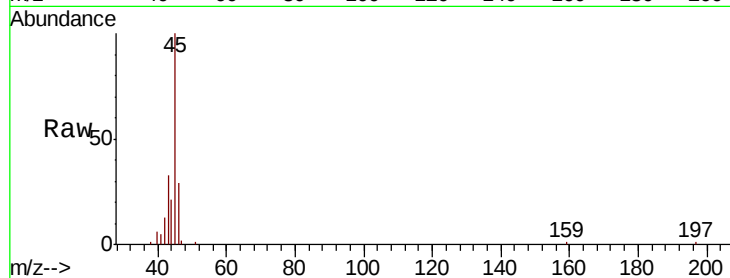
46 38.1 15.3 61.1

Manual Integrations

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#15

Acetone

Concen: 3.472 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033935.D

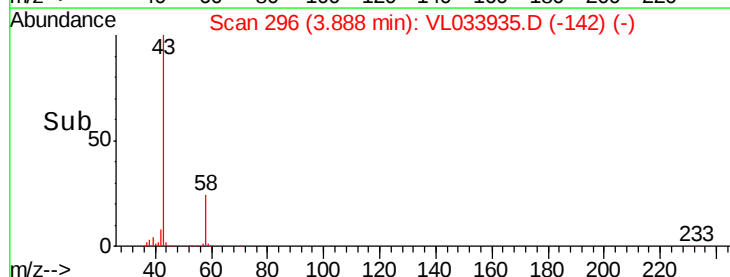
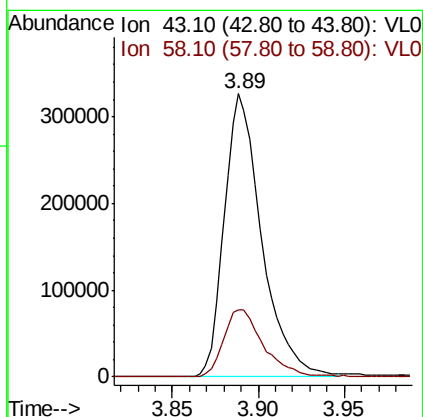
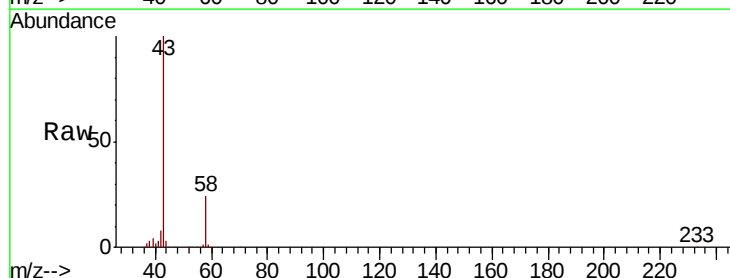
Acq: 24 Jun 2019 13:58

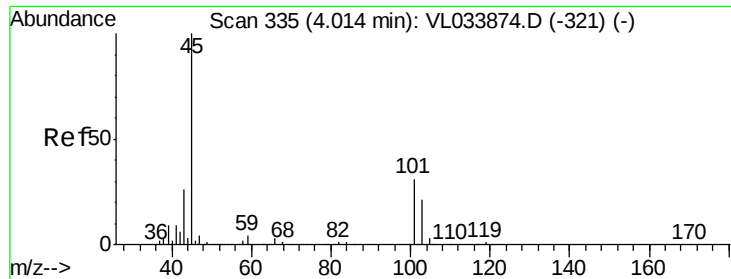
Tgt Ion: 43 Resp: 497007

Ion Ratio Lower Upper

43 100

58 25.5 21.3 31.9





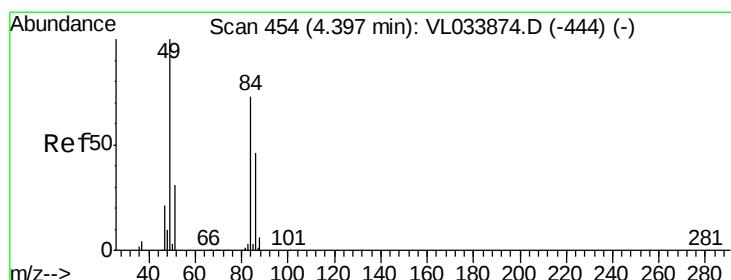
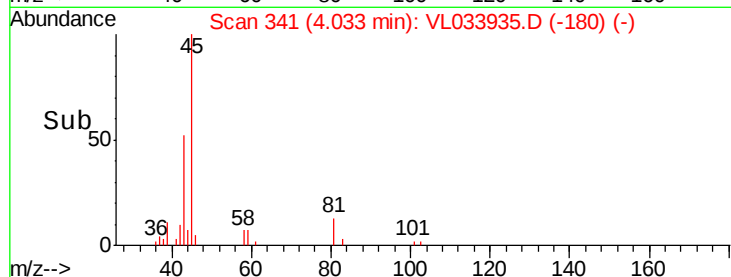
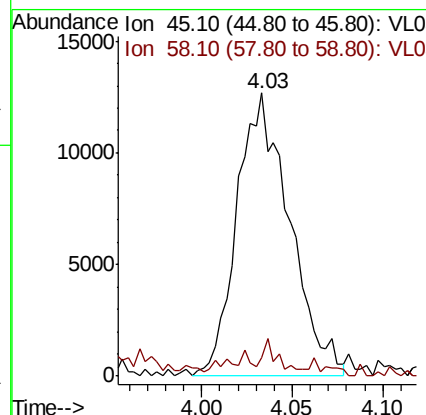
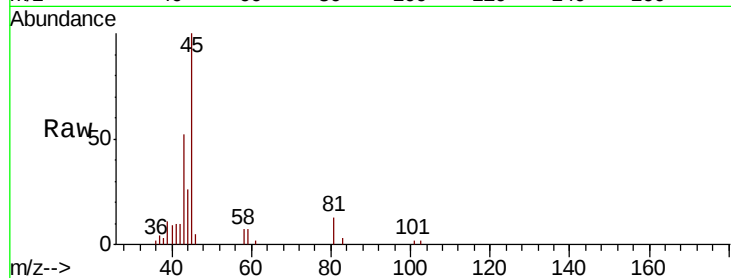
#19
Isopropyl Alcohol
Concen: 0.314 ppbv m
RT: 4.03 min Scan# 341
Delta R.T. 0.02 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

Tot Ion: 45 Resp: 25635
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.6#

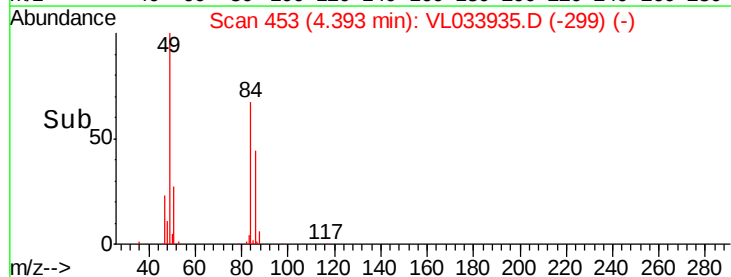
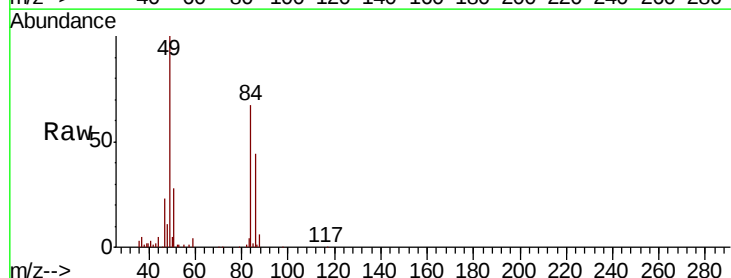
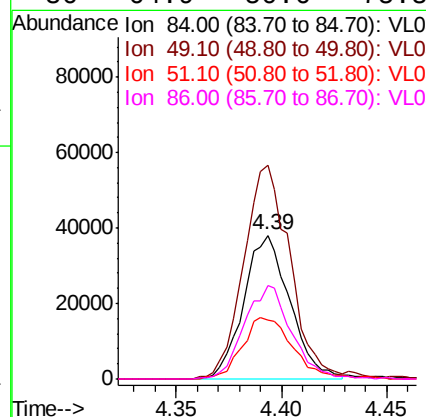
Manual Integrations
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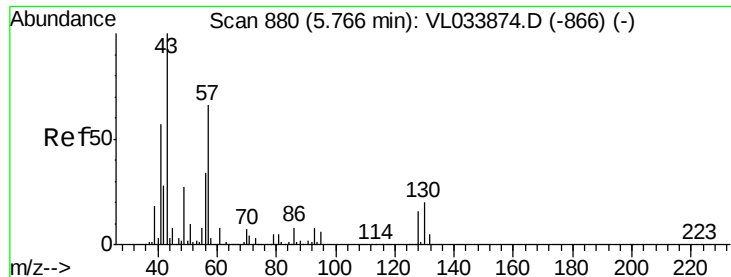
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#20
Methylene Chloride
Concen: 1.040 ppbv
RT: 4.39 min Scan# 453
Delta R.T. -0.00 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Tgt Ion: 84 Resp: 58032
Ion Ratio Lower Upper
84 100
49 148.3 110.0 165.0
51 40.8 34.6 51.8
86 64.9 50.6 75.8





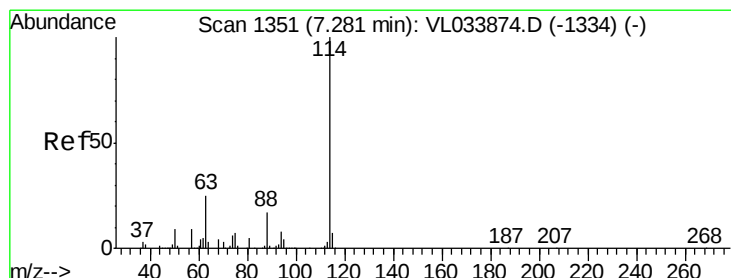
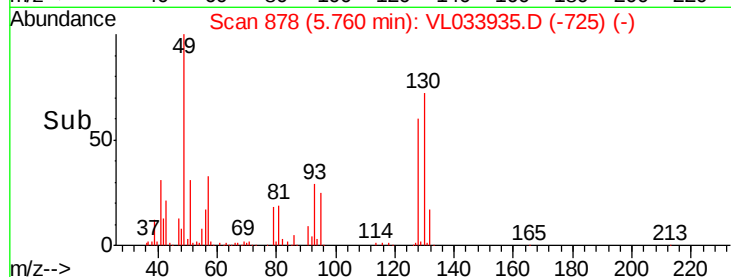
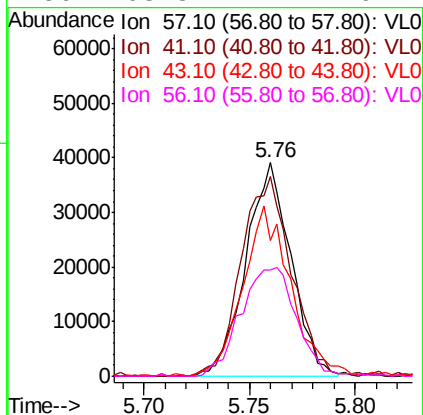
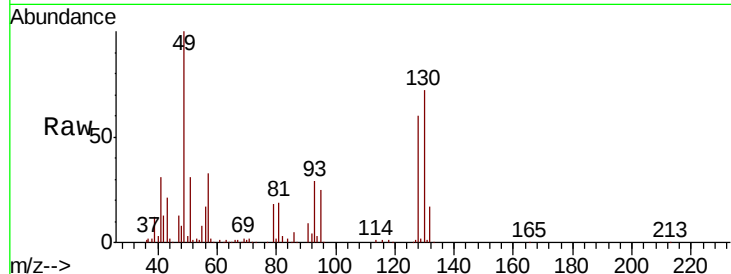
#26
Hexane
Concen: 0.587 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	104.2	71.4	107.2
43	86.3	183.7	275.5#
56	63.3	42.7	64.1

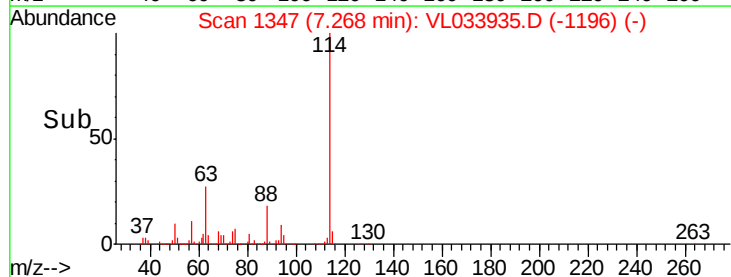
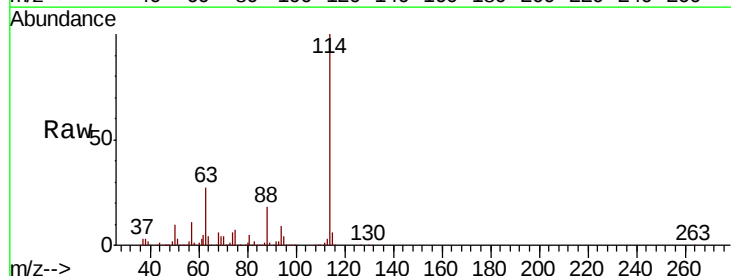
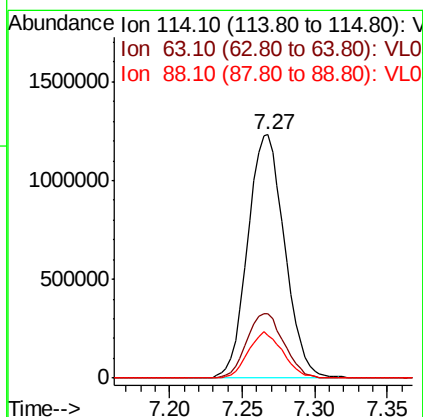
Manual Integrations
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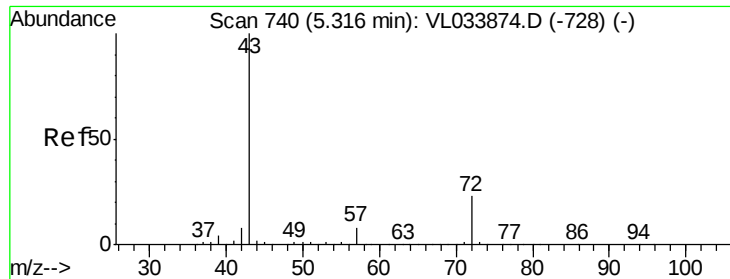
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.27 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.9	21.1	31.7
88	18.0	14.2	21.4





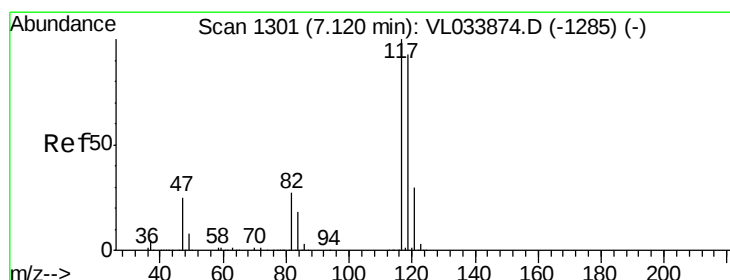
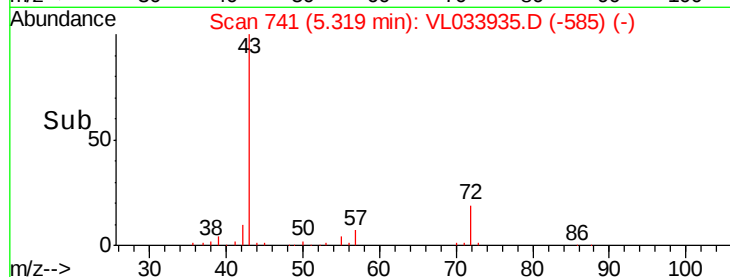
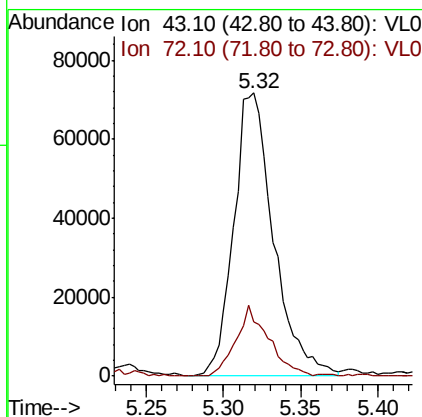
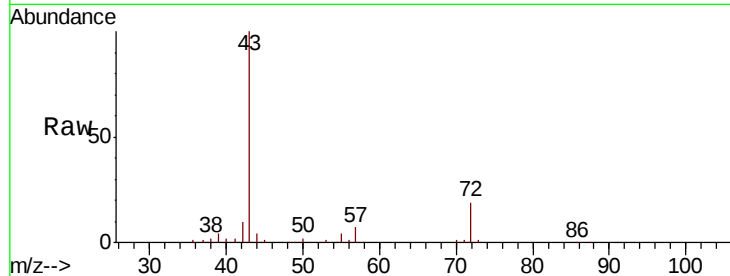
#34
2-Butanone
Concen: 1.042 ppbv
RT: 5.32 min Scan# 741
Delta R.T. 0.00 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

Tot Ion	43	Resp	128628
Ion Ratio	100	Lower	Upper
43	100		
72	21.1	17.9	26.9

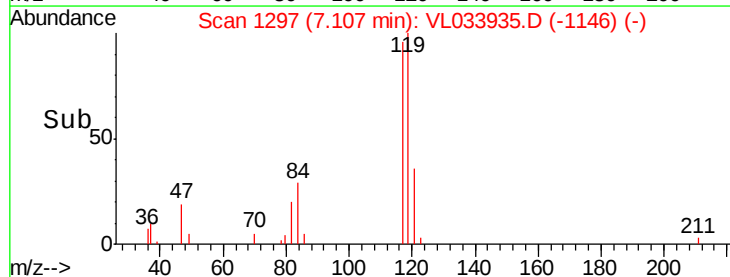
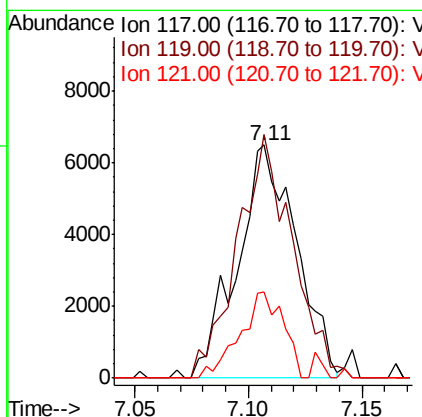
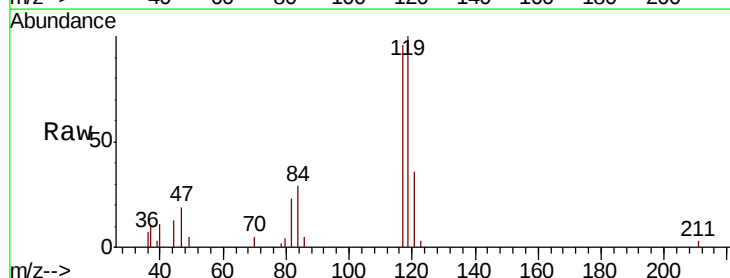
Manual Integrations
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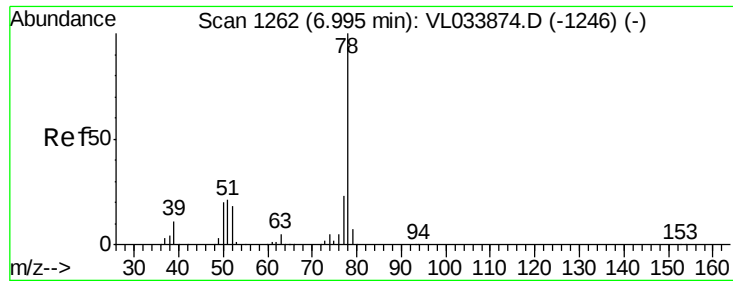
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#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 7.11 min Scan# 1297
Delta R.T. -0.01 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Tgt Ion	117	Resp	11766
Ion Ratio	100	Lower	Upper
117	100		
119	104.5	74.6	111.8
121	37.1	24.0	36.0#





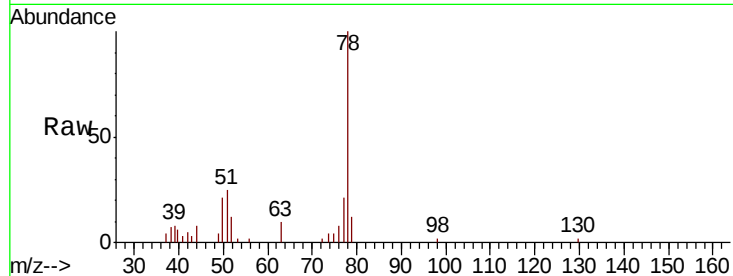
#36
Benzene
Concen: 0.108 ppbv m
RT: 6.98 min Scan# 1258
Delta R.T. -0.01 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

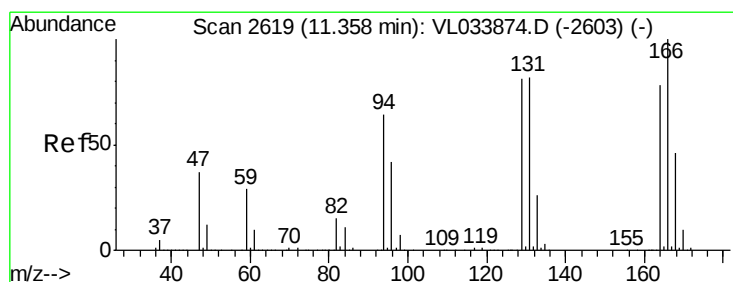
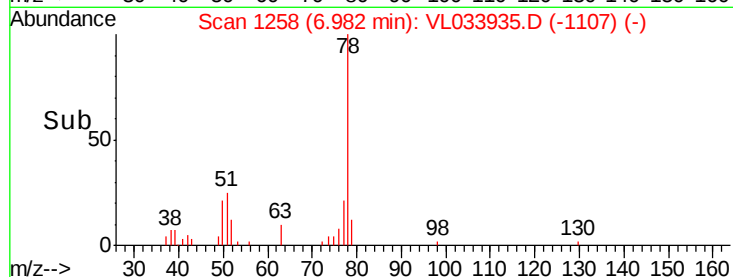
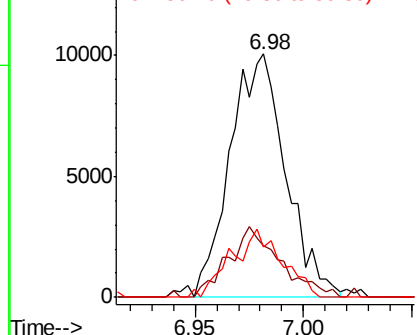
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.4	18.2	27.2
50	20.8	15.9	23.9

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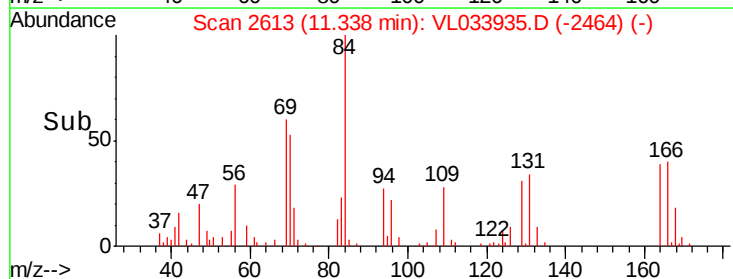
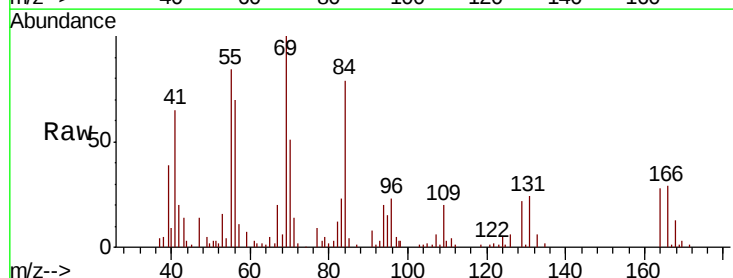
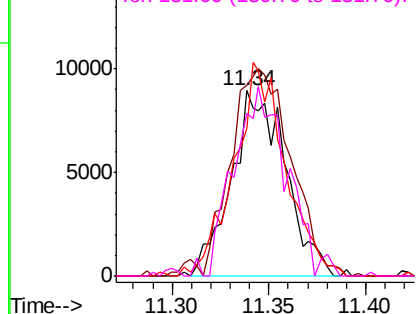
Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

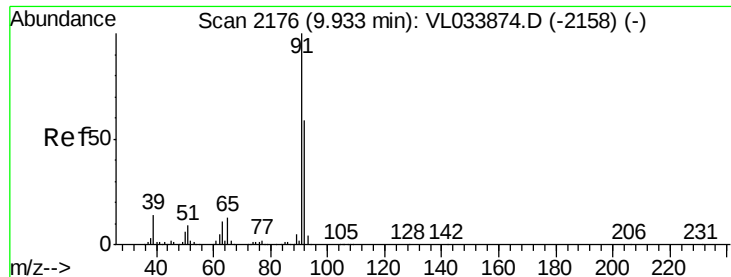


#52
Tetrachloroethene
Concen: 0.296 ppbv m
RT: 11.34 min Scan# 2613
Delta R.T. -0.02 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	103.1	103.1	154.7
129	79.9	83.9	125.9#
131	87.5	85.1	127.7

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.104 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033935.D

Acq: 24 Jun 2019 13:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-2

Tot Ion: 91 Resp: 204189

Ion Ratio Lower Upper

91 100

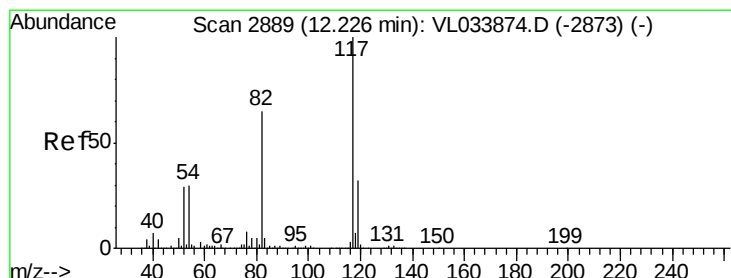
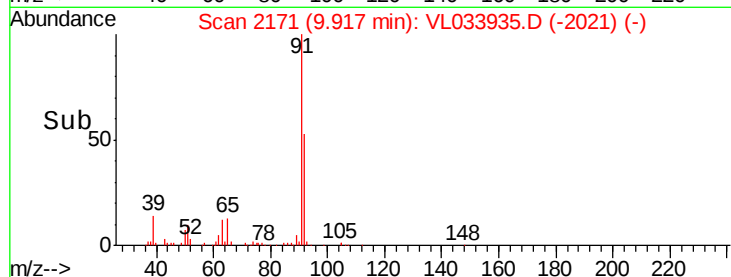
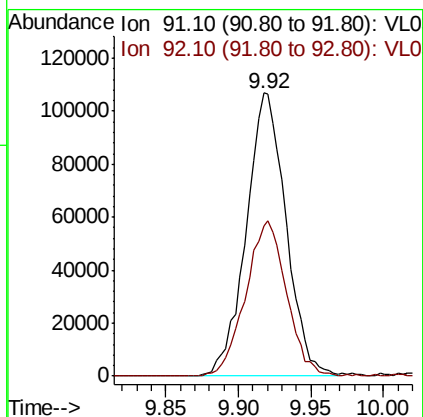
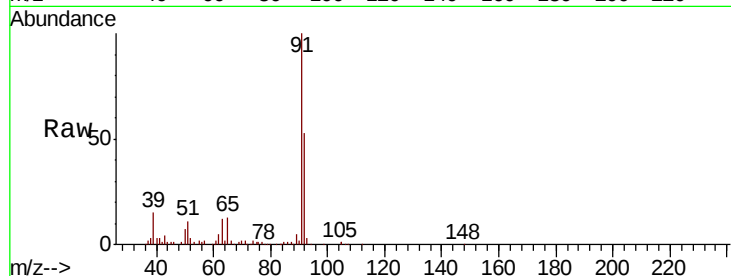
92 56.6 47.0 70.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033935.D

Acq: 24 Jun 2019 13:58

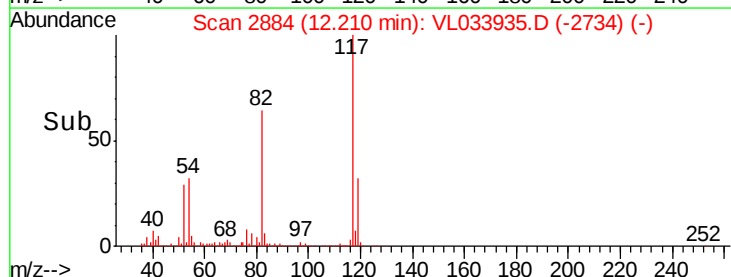
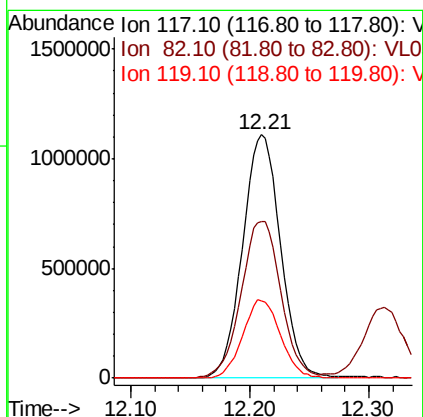
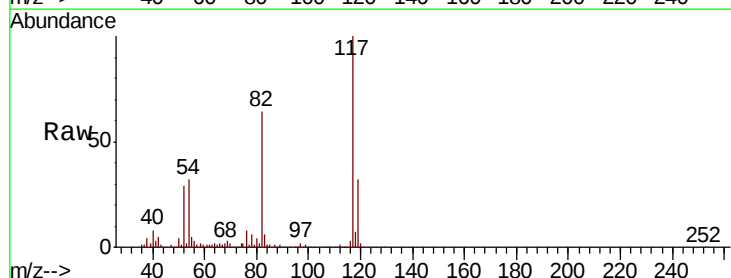
Tgt Ion: 117 Resp: 2452396

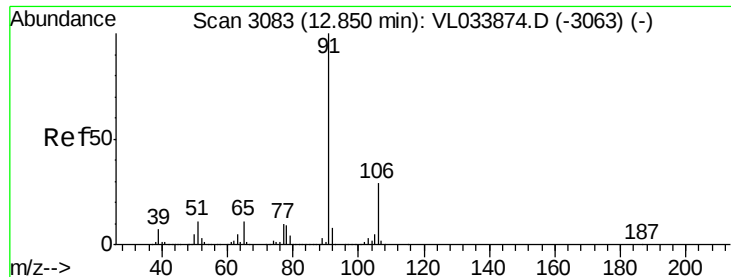
Ion Ratio Lower Upper

117 100

82 67.7 50.2 75.2

119 32.4 24.8 37.2





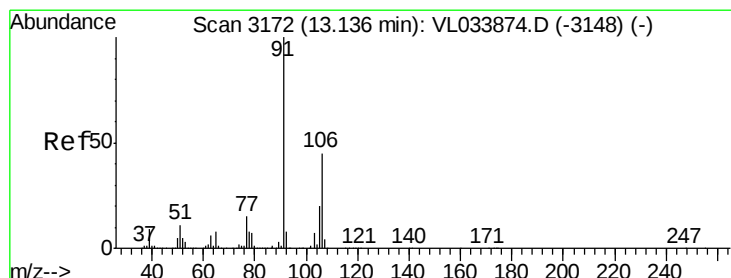
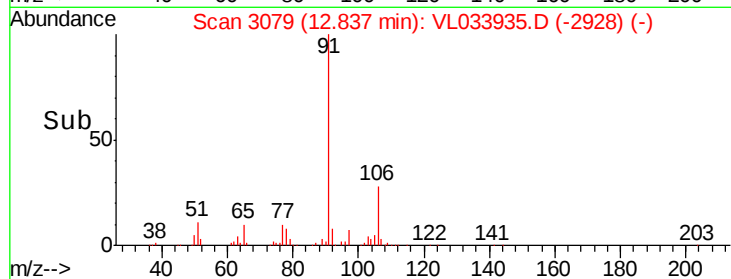
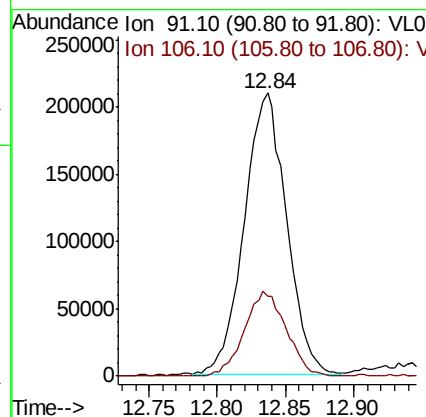
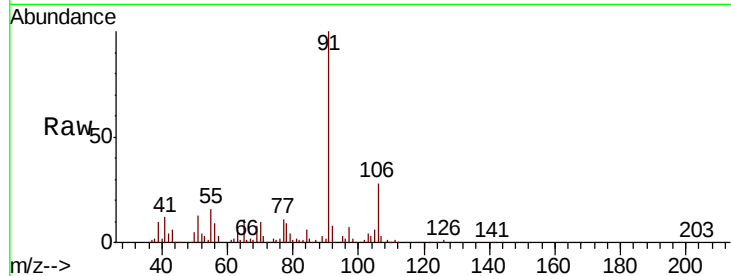
#58
Ethyl Benzene
Concen: 1.634 ppbv
RT: 12.84 min Scan# 3079
Delta R.T. -0.01 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

Tot Ion	91	Resp	451654
Ion Ratio	Lower	Upper	
91	100		
106	28.2	23.0	34.6

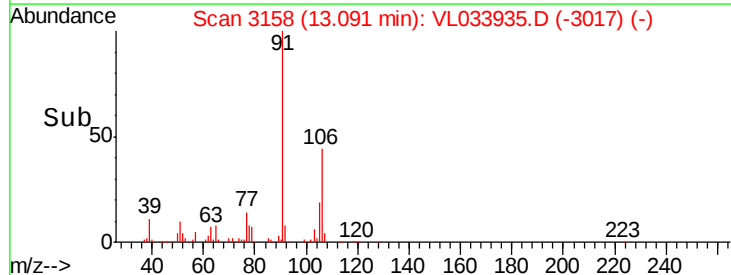
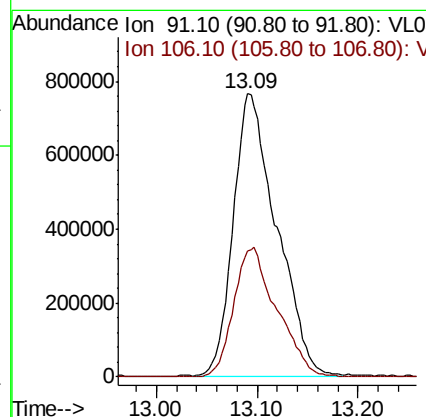
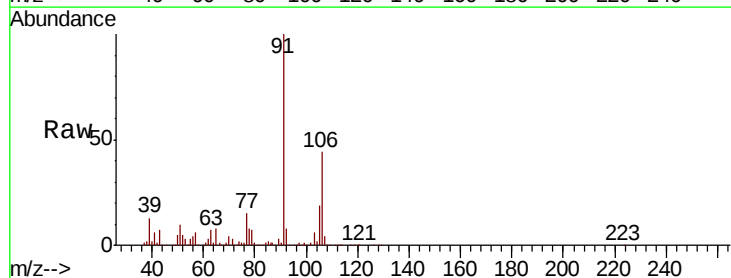
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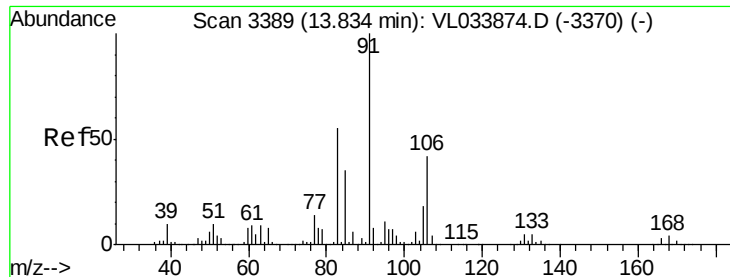
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#59
m/p-Xylene
Concen: 9.071 ppbv
RT: 13.09 min Scan# 3158
Delta R.T. -0.05 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Tgt Ion	91	Resp	2280735
Ion Ratio	Lower	Upper	
91	100		
106	46.0	35.8	53.8





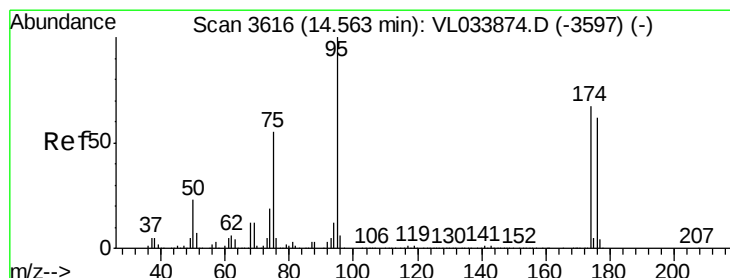
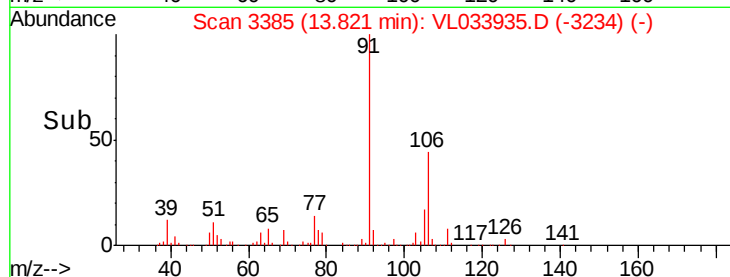
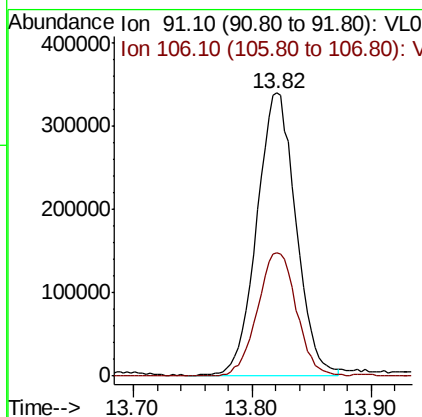
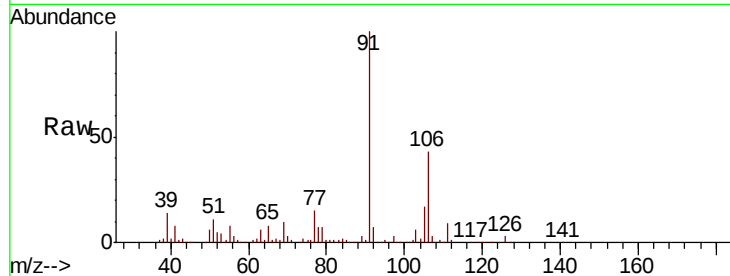
#60
o-Xylene
Concen: 2.953 ppbv
RT: 13.82 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2

Tot Ion: 91 Resp: 766573
Ion Ratio Lower Upper
91 100
106 44.4 21.7 65.1

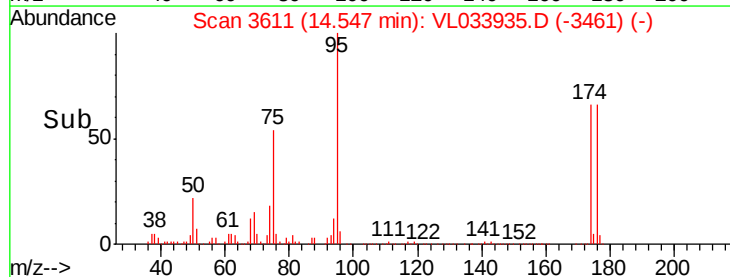
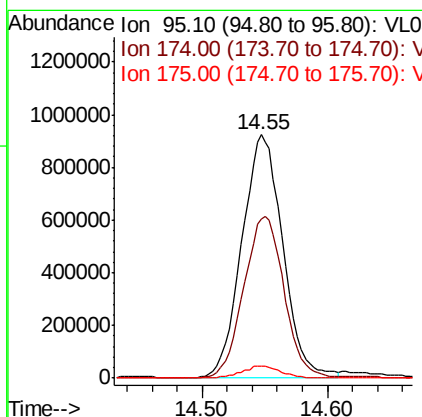
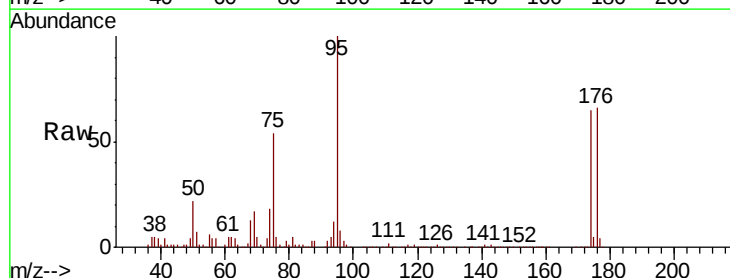
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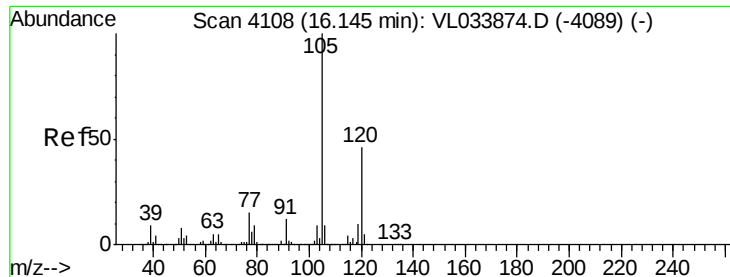
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.399 ppbv
RT: 14.55 min Scan# 3611
Delta R.T. -0.02 min
Lab File: VL033935.D
Acq: 24 Jun 2019 13:58

Tgt Ion: 95 Resp: 2094760
Ion Ratio Lower Upper
95 100
174 66.3 54.0 81.0
175 4.8 3.8 5.8





#73

1,3,5-Trimethylbenzene

Concen: 0.099 ppbv

RT: 16.13 min Scan# 4104

Delta R.T. -0.01 min

Lab File: VL033935.D

Acq: 24 Jun 2019 13:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-2

Tot Ion:105 Resp: 28727

Ion Ratio Lower Upper

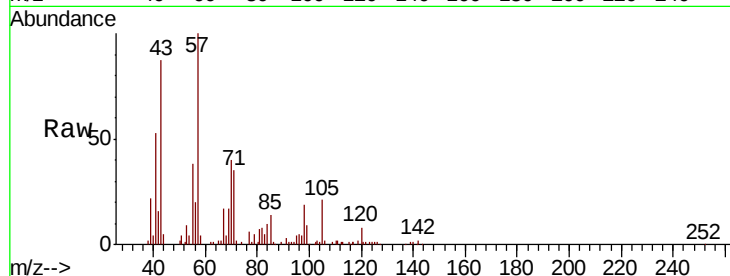
105 100

120 41.6 37.1 55.7

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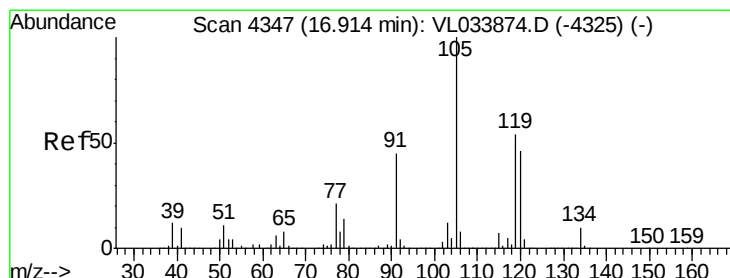
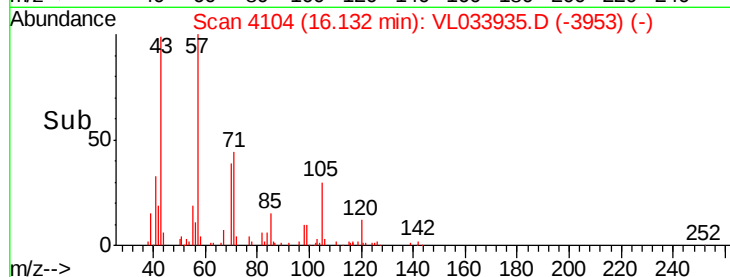
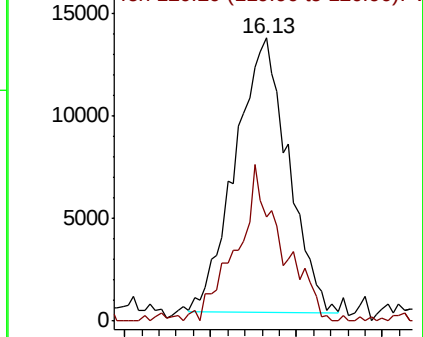
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.258 ppbv

RT: 16.89 min Scan# 4341

Delta R.T. -0.02 min

Lab File: VL033935.D

Acq: 24 Jun 2019 13:58

Tgt Ion:105 Resp: 86402

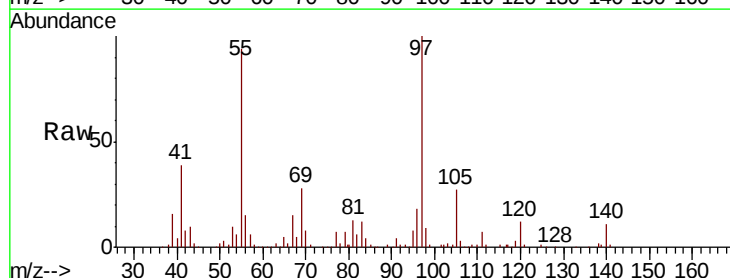
Ion Ratio Lower Upper

105 100

120 45.1 36.7 55.1

91 12.5 35.8 53.8#

77 21.4 16.9 25.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

