

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035943.D
 Acq On : 16 Nov 2020 14:40
 Operator : SY/AP
 Sample : L4755-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AS-EFF-201112

Manual Integrations
 APPROVED

MMDadoda
 11/18/2020 2:11:17 PM

Quant Time: Nov 17 21:41:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1122955	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3842491	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3916928	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2907647	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	303788	1.437	ppbv	96
3) Chlorodifluoromethane	2.98	51	984075	7.318	ppbv	100
4) Chloromethane	3.14	50	29669	0.454	ppbv	94
9) Propene	3.02	41	24843m	0.505	ppbv	
11) Trichlorofluoromethane	3.95	101	5028673	18.942	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	148137	0.749	ppbv	99
13) Ethanol	3.60	45	347937	32.584	ppbv	99
15) Acetone	3.85	43	251522	2.095	ppbv	90
18) 1,1-Dichloroethene	4.29	96	407709	4.493	ppbv	97
20) Methylene Chloride	4.34	84	51416	0.608	ppbv	95
22) trans-1,2-Dichloroethene	4.89	96	97764	1.063	ppbv	98
24) 1,1-Dichloroethane	5.01	63	294426	1.836	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	448420	1.914	ppbv	98
29) Chloroform	5.75	83	240199	0.937	ppbv	96
31) cis-1,2-Dichloroethene	5.55	61	2763728	20.597	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	132250	0.494	ppbv	94
34) 2-Butanone	5.26	43	72372	0.580	ppbv	95
35) Carbon Tetrachloride	7.02	117	105977	0.516	ppbv	97
36) Benzene	6.89	78	54519m	0.191	ppbv	
38) Trichloroethene	7.84	130	12292306	88.097	ppbv #	91
41) Tetrahydrofuran	6.07	42	14945m	0.211	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	14696m	0.112	ppbv	
52) Tetrachloroethene	11.24	164	9101173m	67.248	ppbv	
53) Toluene	9.82	91	301264	0.874	ppbv	98
59) m/p-Xylene	12.97	91	79847	0.198	ppbv	99
60) o-Xylene	13.71	91	38405m	0.098	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	73698	0.158	ppbv #	74
78) Hexachloro-1,3-Butadiene	23.39	225	23802m	0.176	ppbv	
79) Naphthalene	22.22	128	33565m	0.103	ppbv	

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

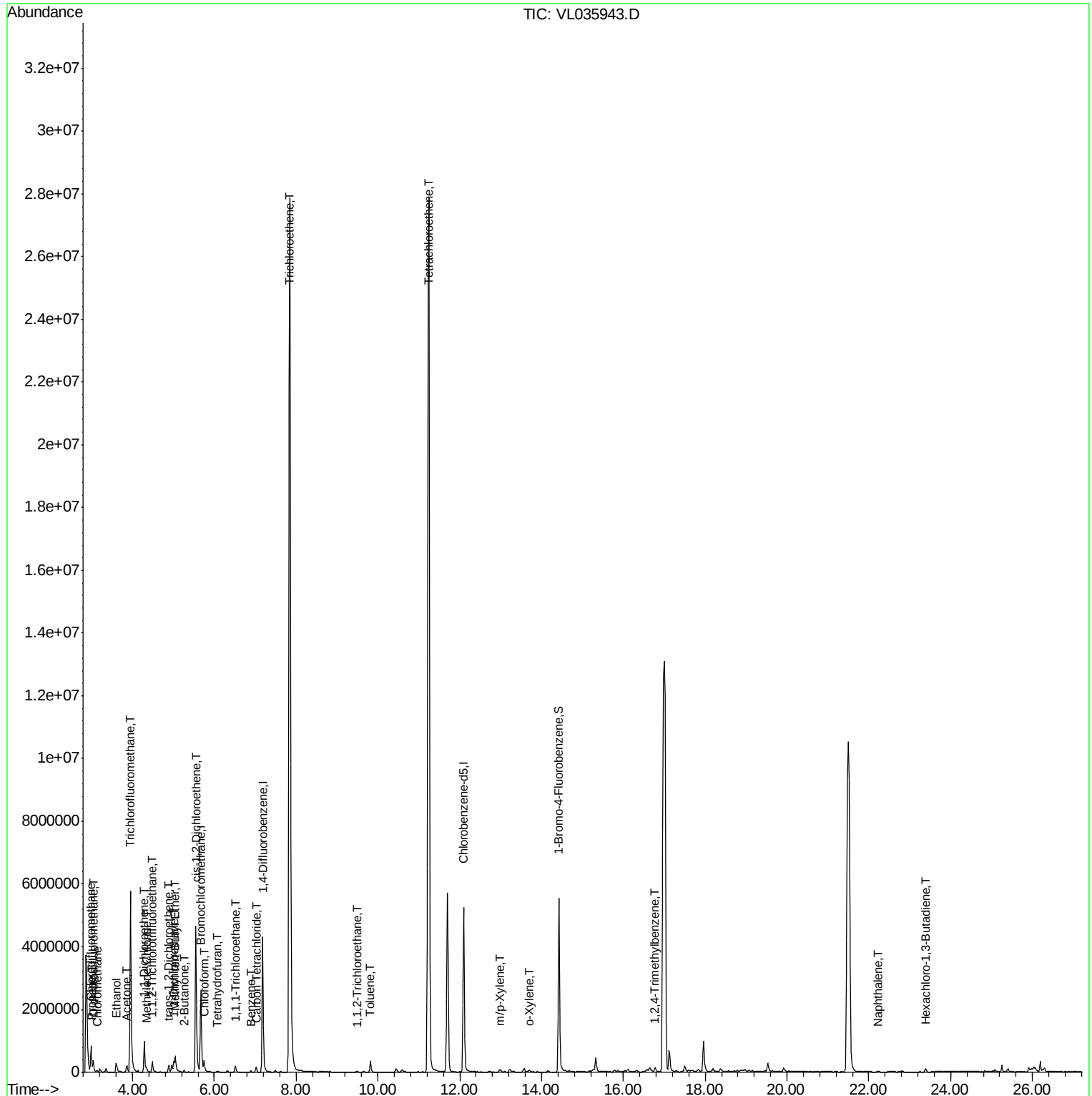
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
Data File : VL035943.D
Acq On : 16 Nov 2020 14:40
Operator : SY/AP
Sample : L4755-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

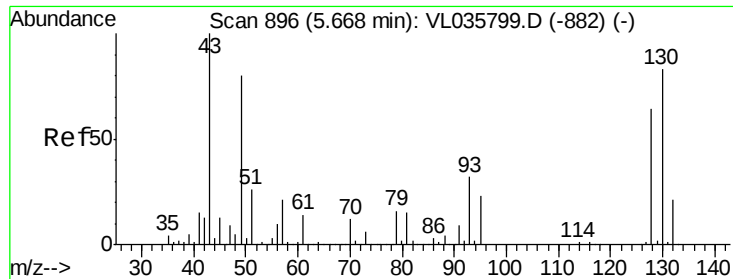
Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112

Manual Integrations
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Quant Time: Nov 17 21:41:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112

Tot Ion: 49 Resp: 1122955

Ion Ratio Lower Upper

49 100

128 76.2 41.5 124.6

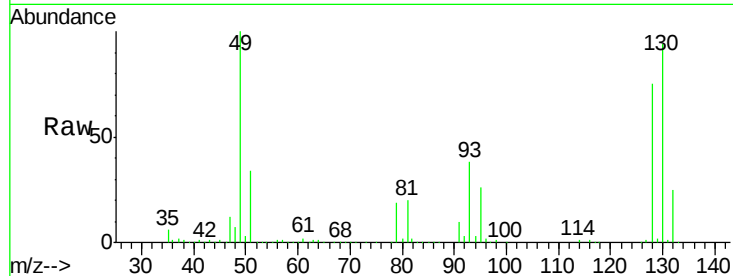
130 98.4 53.7 161.1

Manual Integrations

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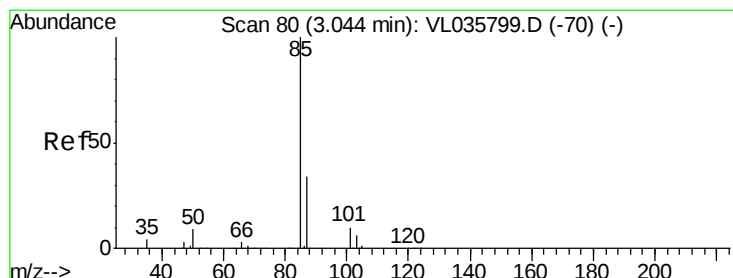
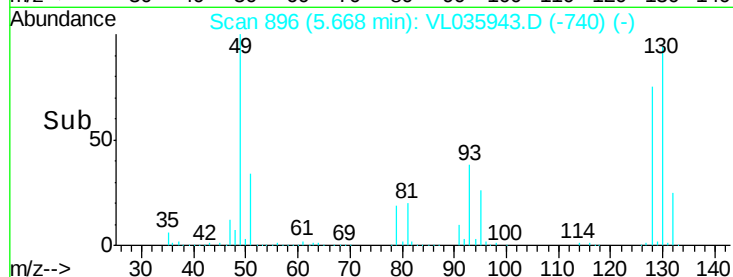
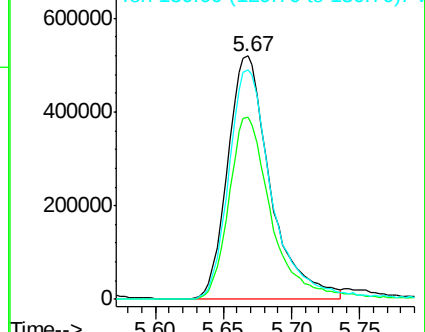
11/18/2020 2:11:17 PM



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: 1.437 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035943.D

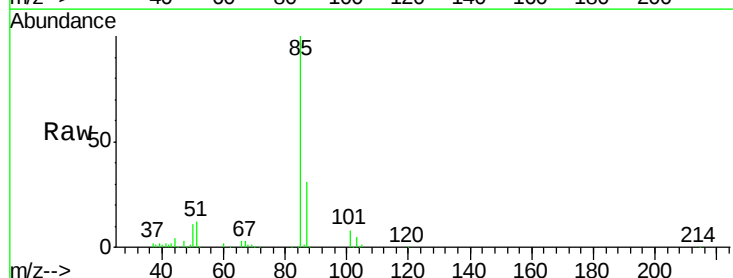
Acq: 16 Nov 2020 14:40

Tgt Ion: 85 Resp: 303788

Ion Ratio Lower Upper

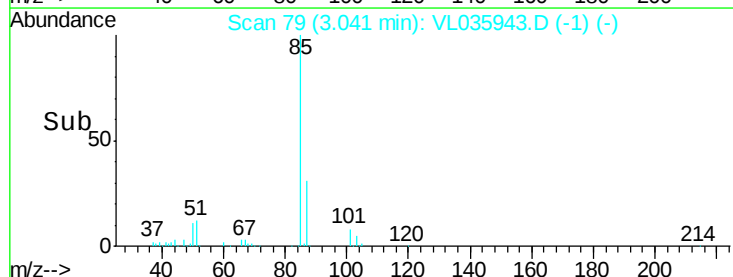
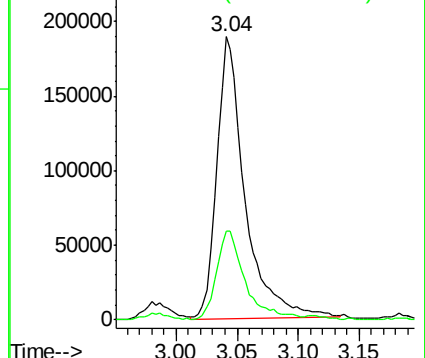
85 100

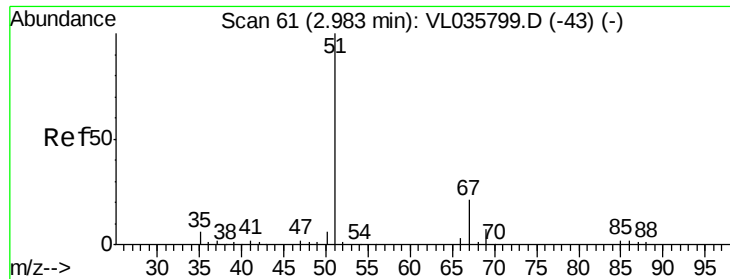
87 31.6 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.318 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Tot Ion: 51 Resp: 984075

Ion Ratio Lower Upper

51 100

67 21.0 17.0 25.4

Instrument :

MSVOA_L

ClientSampleId :

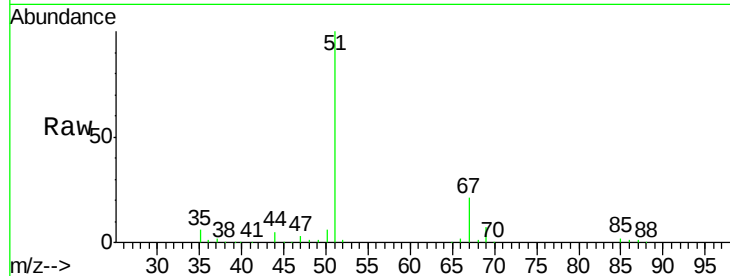
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

500000

400000

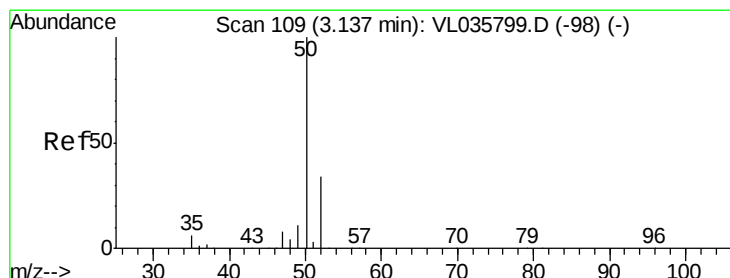
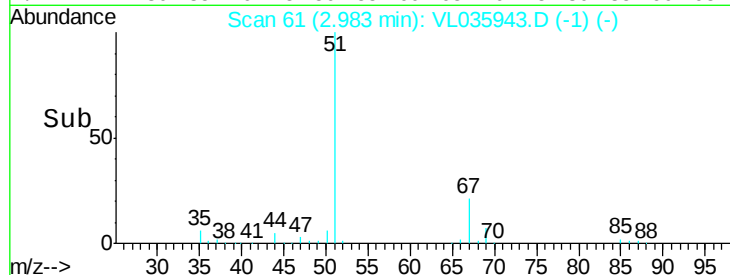
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 0.454 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035943.D

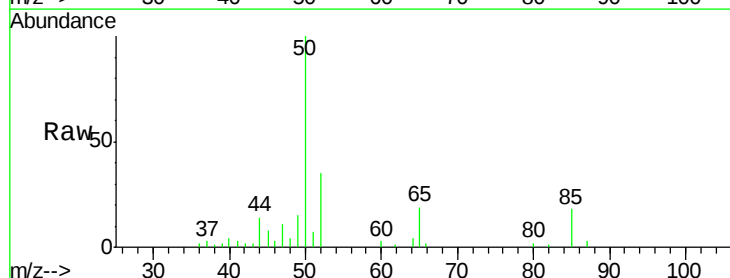
Acq: 16 Nov 2020 14:40

Tgt Ion: 50 Resp: 29669

Ion Ratio Lower Upper

50 100

52 37.2 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.14

20000

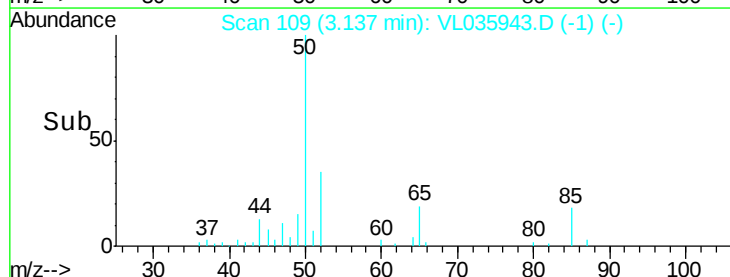
15000

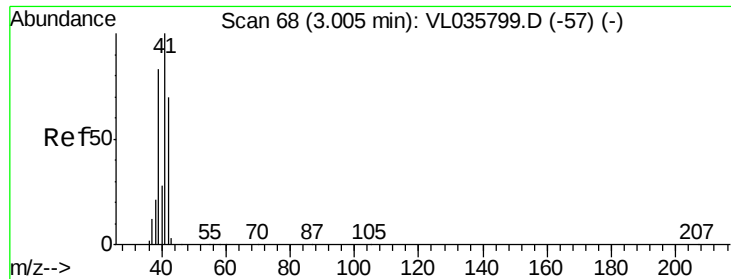
10000

5000

0

Time-->





#9

Propene

Concen: 0.505 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112

Tot Ion: 41 Resp: 24843

Ion Ratio Lower Upper

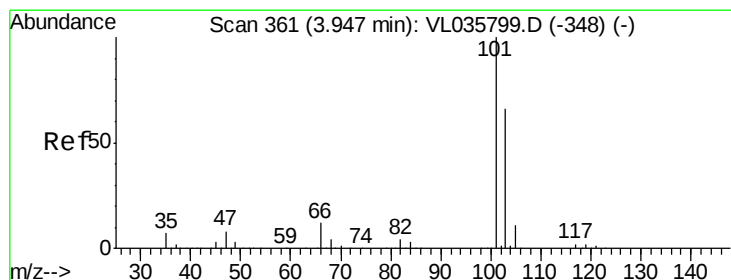
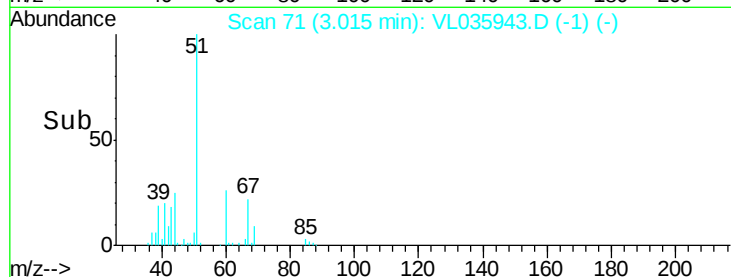
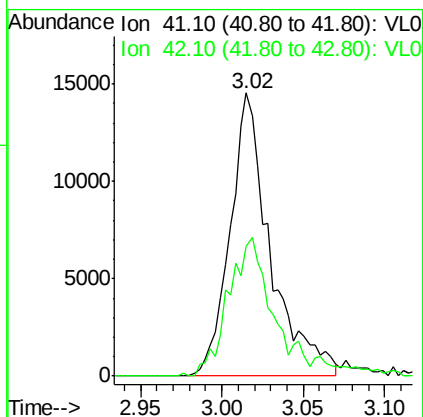
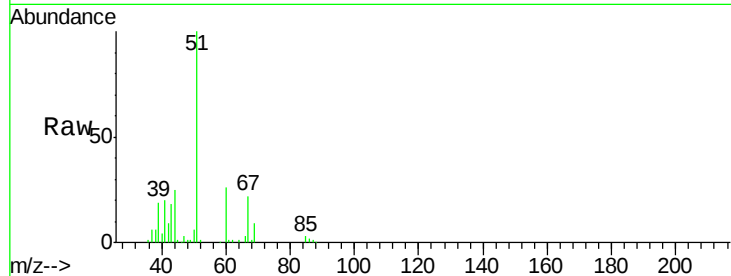
41 100

42 59.1 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 18.942 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL035943.D

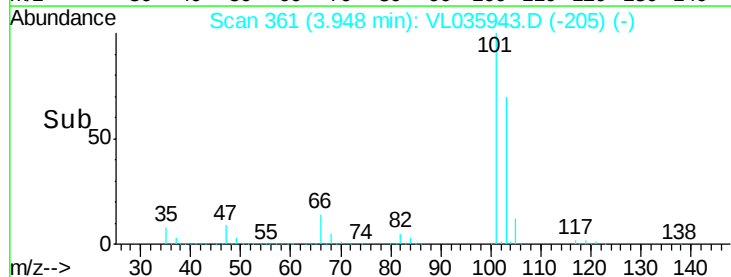
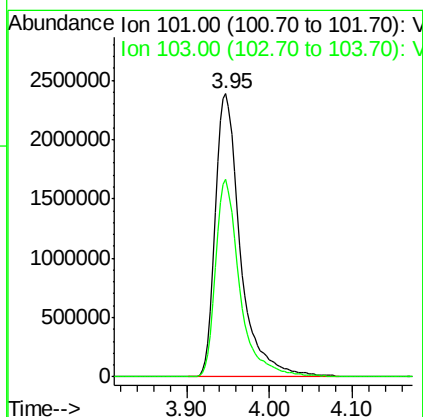
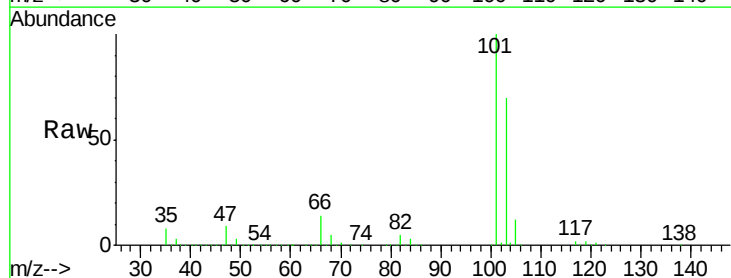
Acq: 16 Nov 2020 14:40

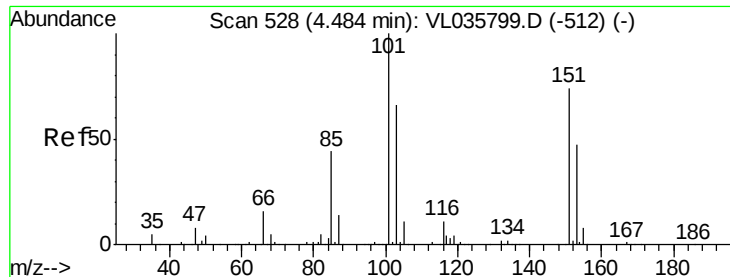
Tgt Ion: 101 Resp: 5028673

Ion Ratio Lower Upper

101 100

103 69.9 53.0 79.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.749 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112

Tot Ion:101 Resp: 148137

Ion Ratio Lower Upper

101 100

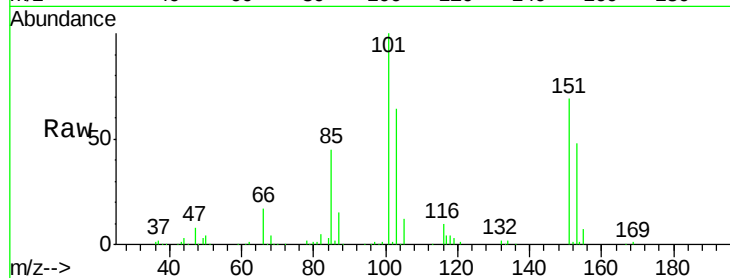
151 74.1 58.9 88.3

Manual Integrations

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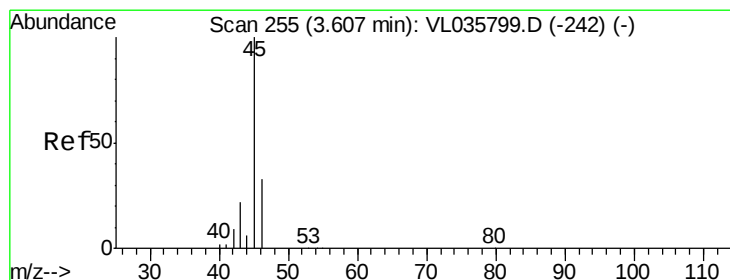
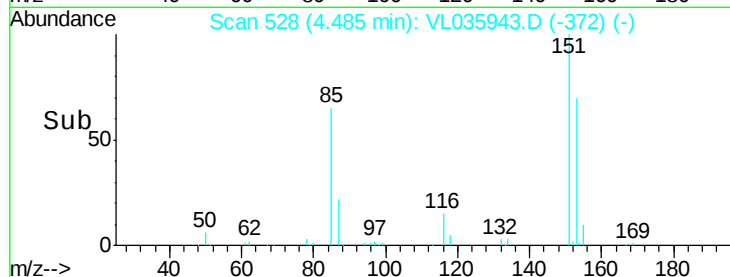
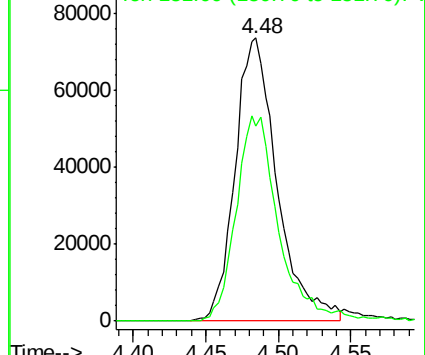
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 32.584 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL035943.D

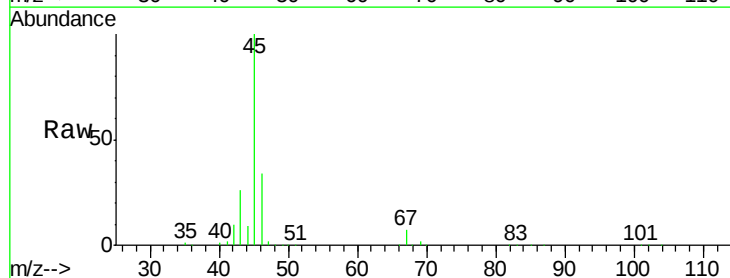
Acq: 16 Nov 2020 14:40

Tgt Ion: 45 Resp: 347937

Ion Ratio Lower Upper

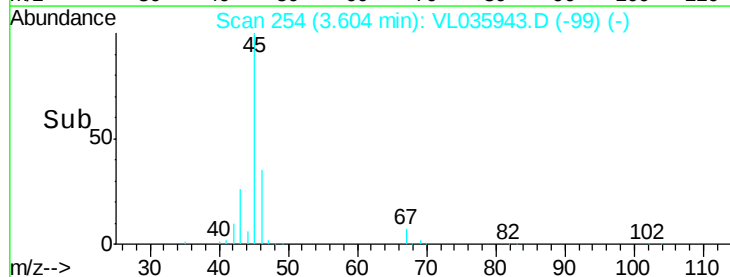
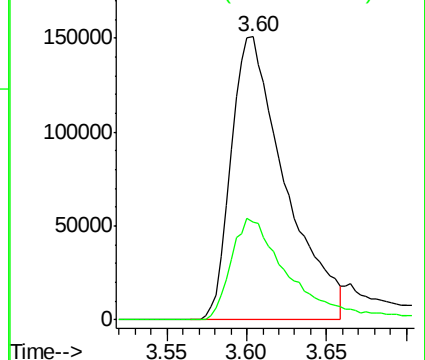
45 100

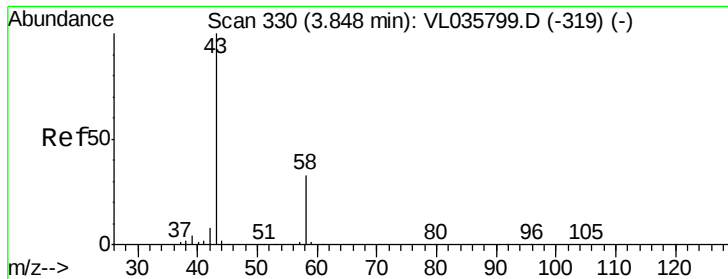
46 40.7 16.1 64.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.095 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112

Tot Ion: 43 Resp: 251522

Ion Ratio Lower Upper

43 100

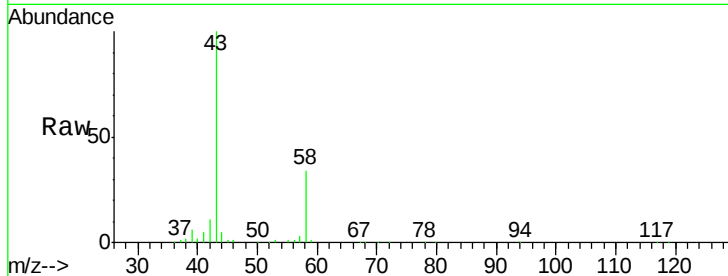
58 40.1 27.5 41.3

Manual Integrations

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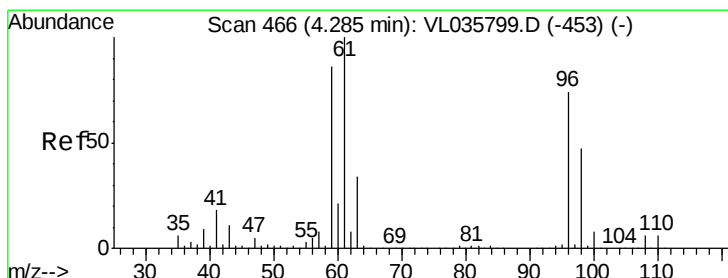
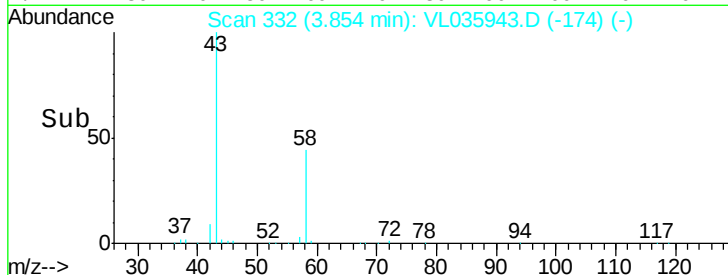
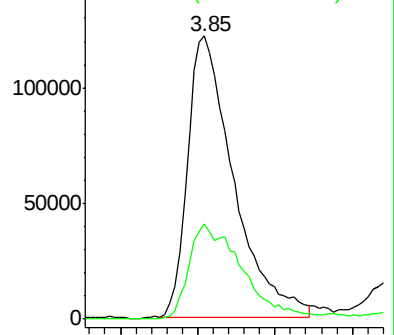
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 4.493 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

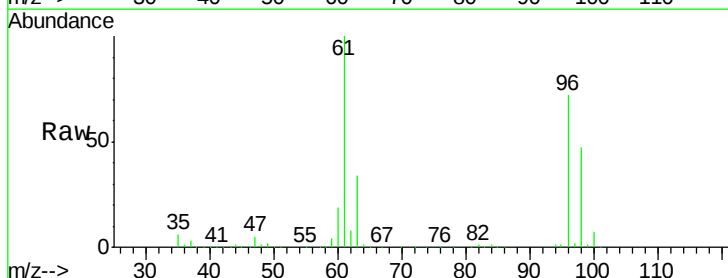
Tgt Ion: 96 Resp: 407709

Ion Ratio Lower Upper

96 100

61 139.7 108.5 162.7

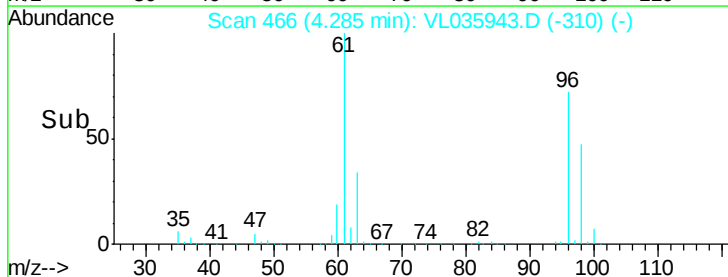
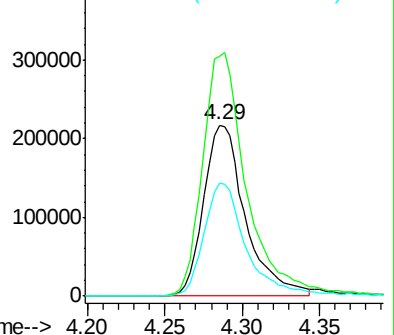
98 66.2 50.7 76.1

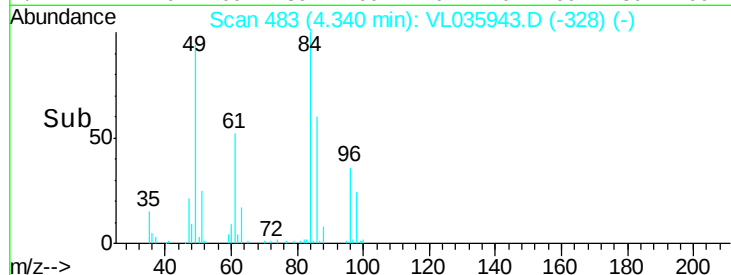
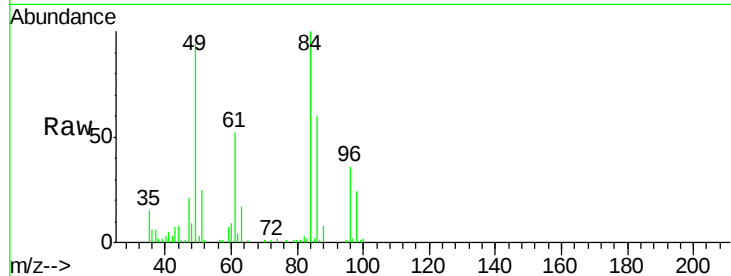
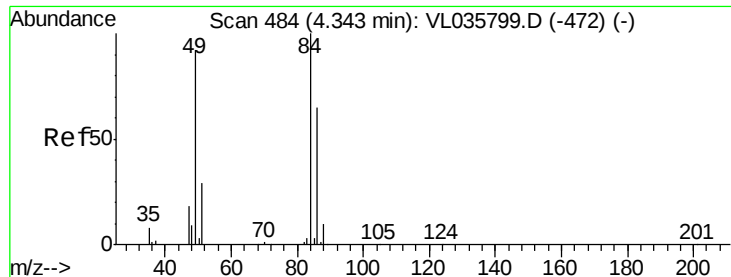


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





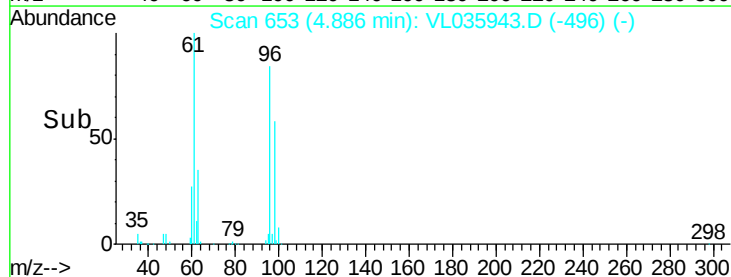
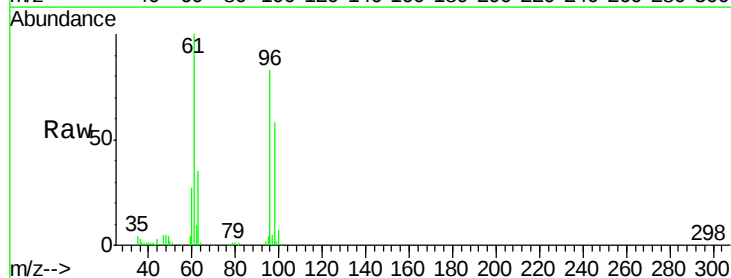
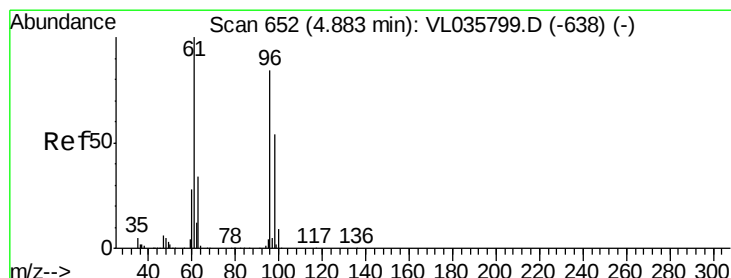
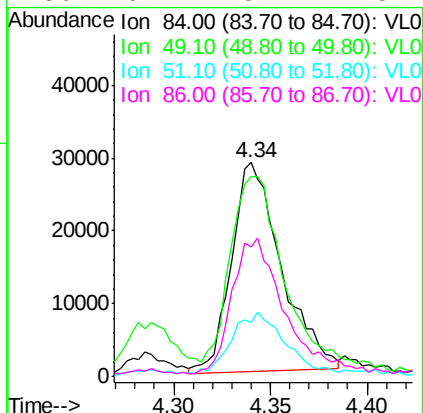
#20
Methvlene Chloride
Concen: 0.608 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Tot Ion:	84	Resp:	51416
Ion	Ratio	Lower	Upper
84	100		
49	89.1	73.8	110.8
51	24.5	23.0	34.4
86	61.2	52.1	78.1

Instrument :
MSVOA_L
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AS-EFF-201112

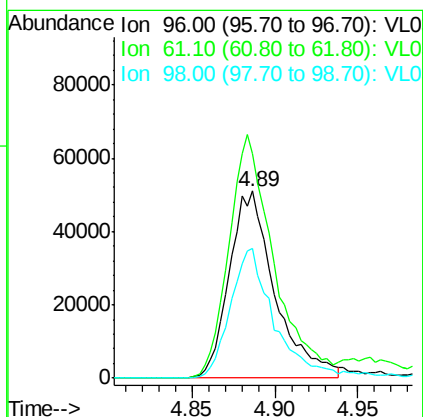
Manual Integrations
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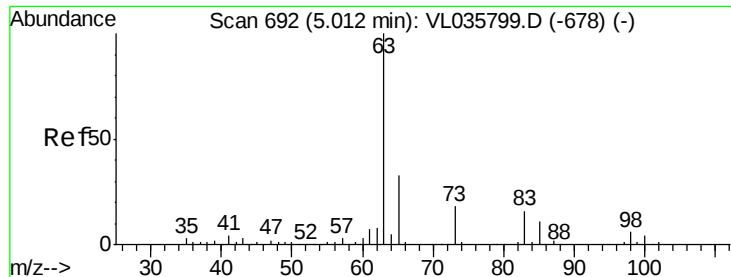
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11/18/2020 2:11:17 PM



#22
trans-1,2-Dichloroethene
Concen: 1.063 ppbv
RT: 4.89 min Scan# 653
Delta R.T. 0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Tgt Ion:	96	Resp:	97764
Ion	Ratio	Lower	Upper
96	100		
61	119.7	95.4	143.0
98	69.3	51.8	77.6





#24

1,1-Dichloroethane

Concen: 1.836 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

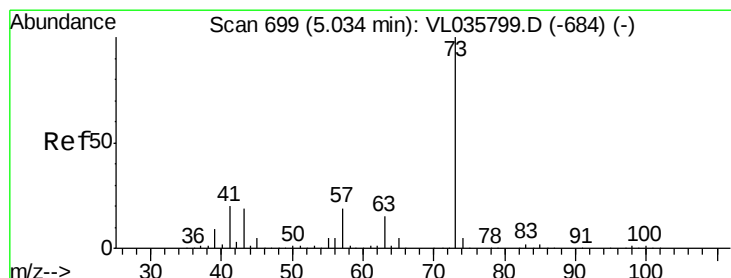
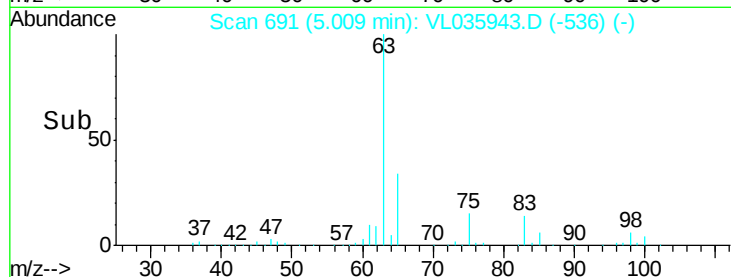
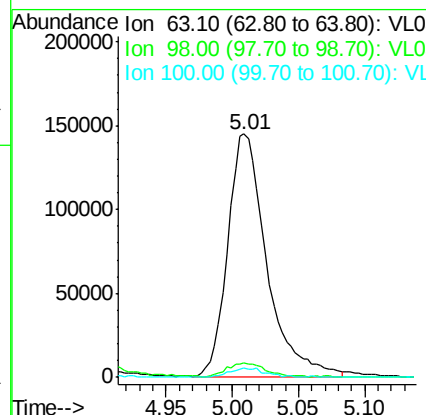
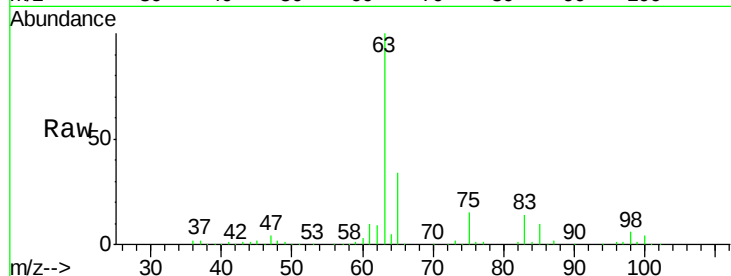
ClientSampleId :

AS-EFF-201112

Tot Ion:	63	Resp:	294426
Ion Ratio	Lower	Upper	
63	100		
98	5.7	3.0	9.2
100	4.0	1.8	5.4

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#28

Methyl tert-Butyl Ether

Concen: 1.914 ppbv

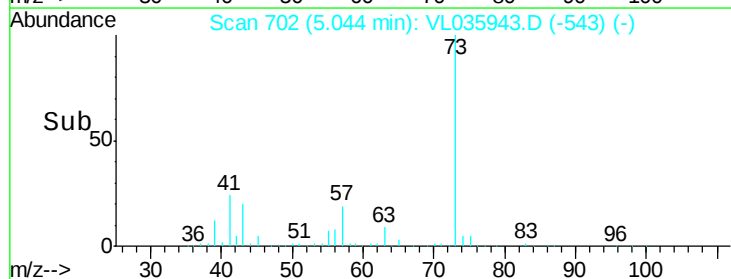
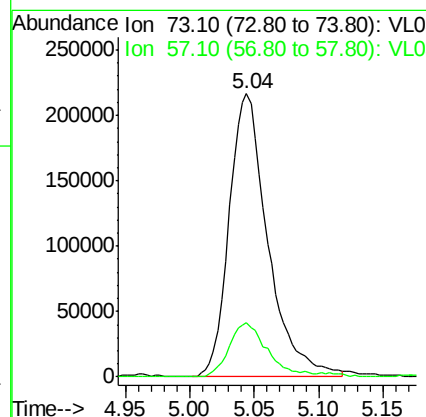
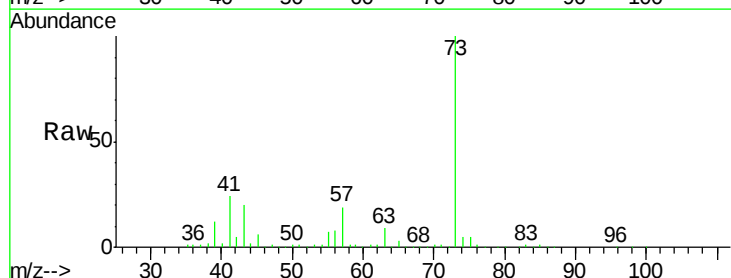
RT: 5.04 min Scan# 702

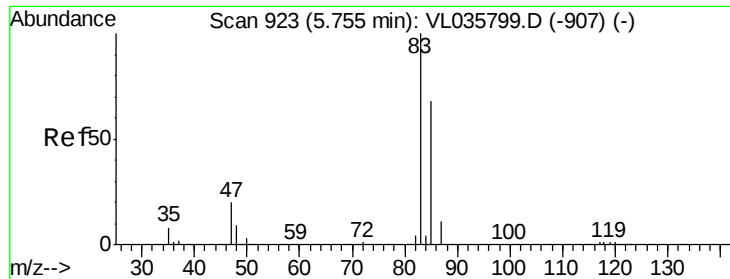
Delta R.T. 0.01 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Tgt Ion:	73	Resp:	448420
Ion Ratio	Lower	Upper	
73	100		
57	20.1	15.4	23.2





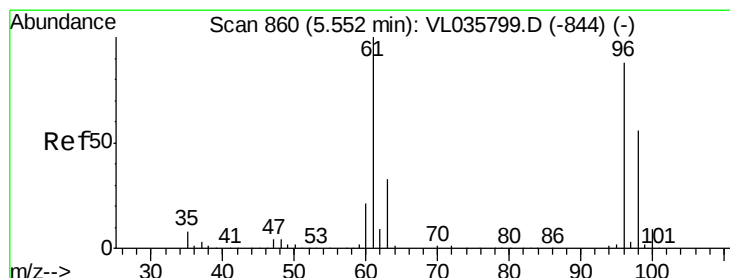
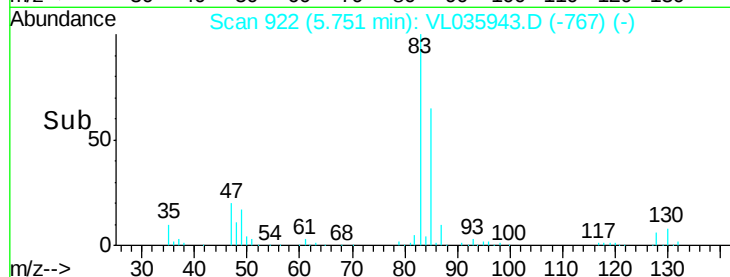
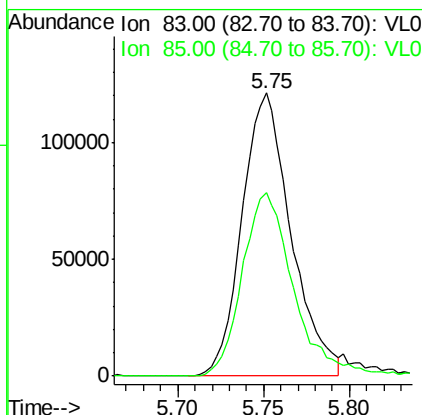
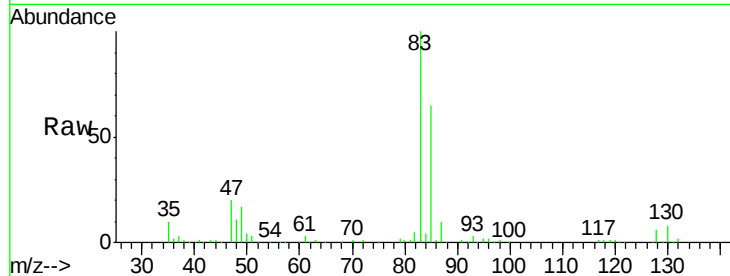
#29
Chloroform
Concen: 0.937 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112

Tot Ion: 83 Resp: 240199
Ion Ratio Lower Upper
83 100
85 64.6 54.6 81.8

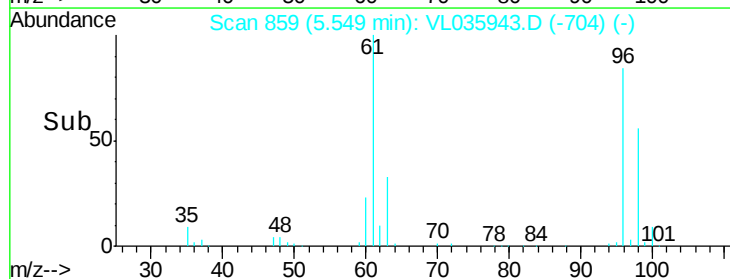
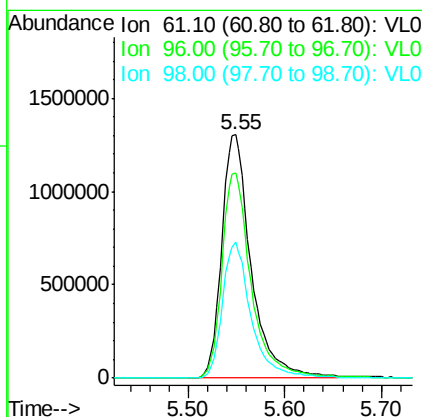
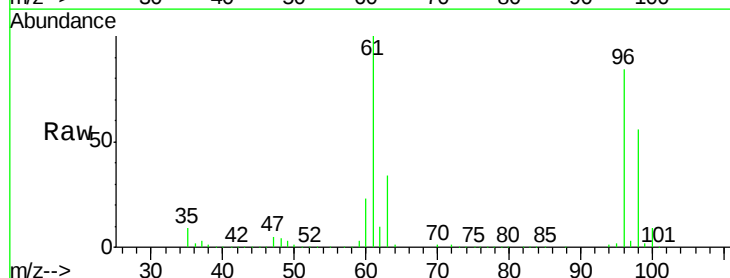
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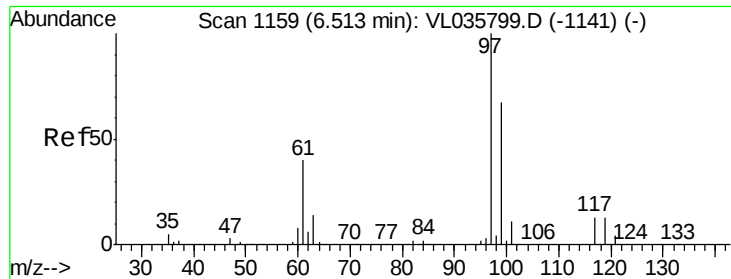
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#31
cis-1,2-Dichloroethene
Concen: 20.597 ppbv
RT: 5.55 min Scan# 859
Delta R.T. -0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Tgt Ion: 61 Resp: 2763728
Ion Ratio Lower Upper
61 100
96 84.3 70.3 105.5
98 56.1 45.0 67.6





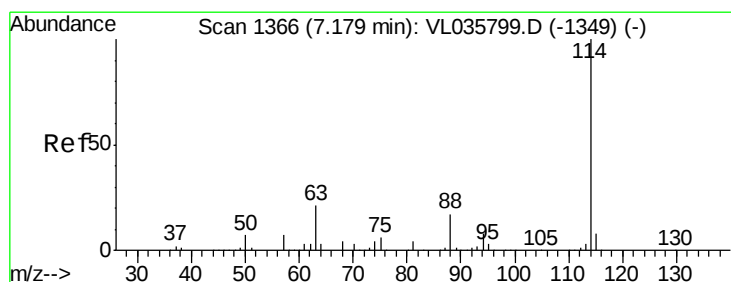
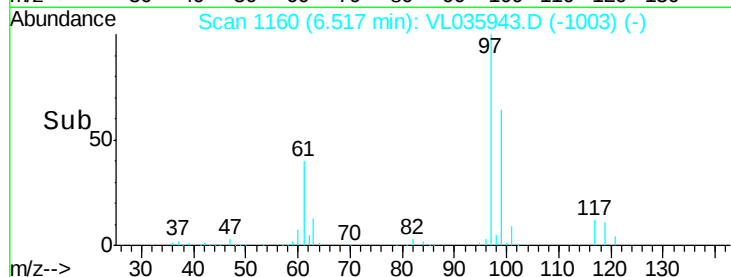
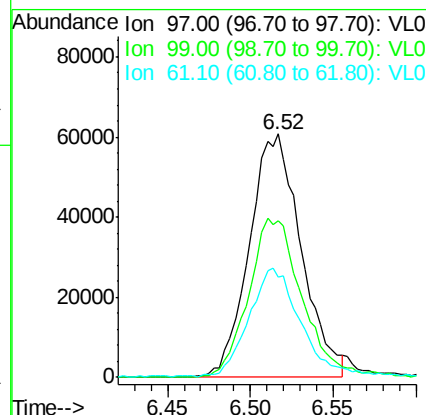
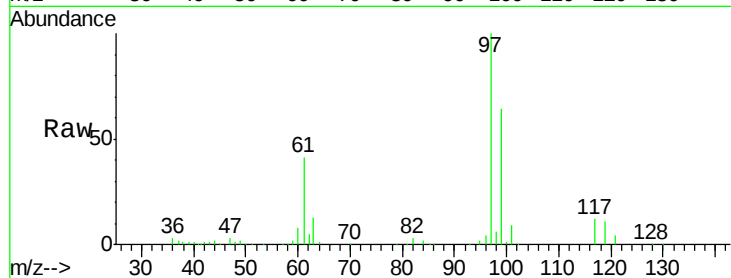
#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: VL035943.D
 Acq: 16 Nov 2020 14:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AS-EFF-201112

Tot Ion	Ratio	Lower	Upper
97	100		
99	67.9	52.3	78.5
61	46.9	32.0	48.0

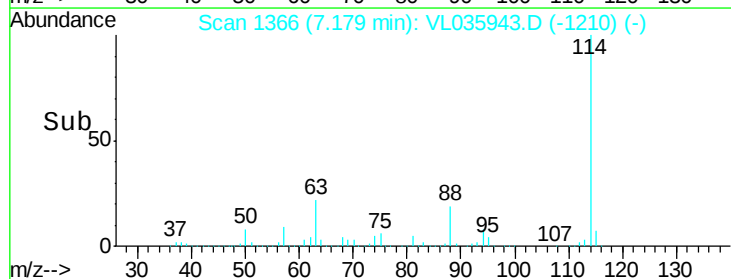
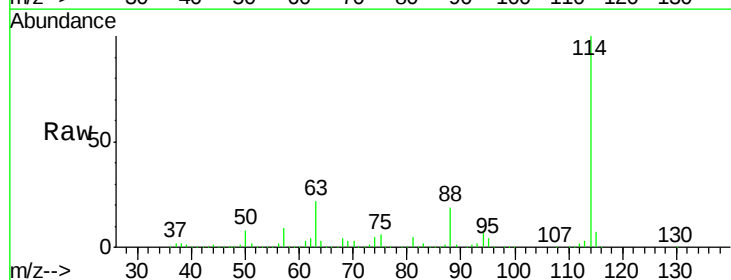
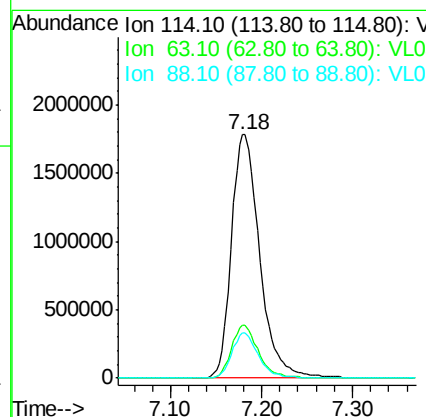
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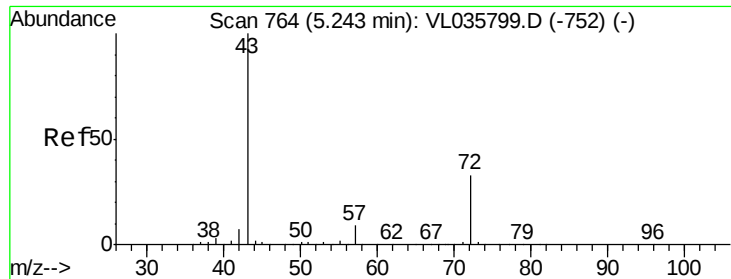
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL035943.D
 Acq: 16 Nov 2020 14:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.1	24.1
88	17.7	13.7	20.5





#34

2-Butanone

Concen: 0.580 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.02 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112

Tot Ion: 43 Resp: 72372

Ion Ratio Lower Upper

43 100

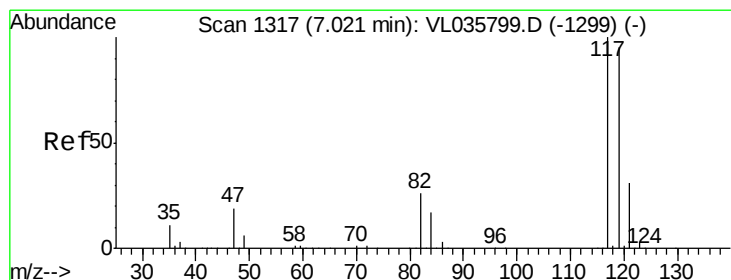
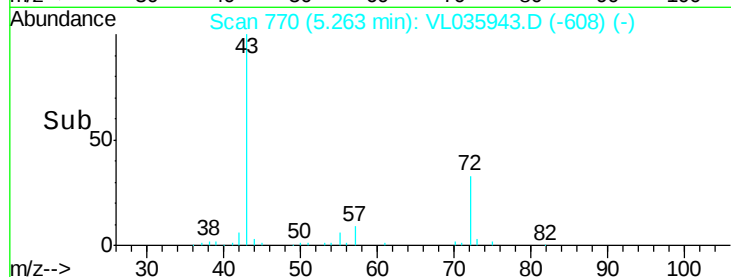
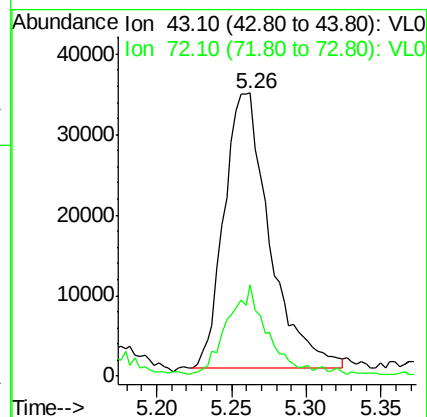
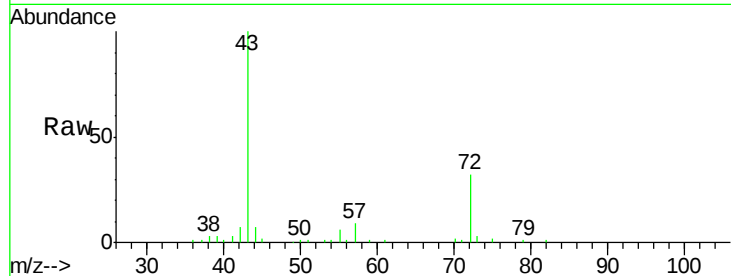
72 30.1 26.5 39.7

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#35

Carbon Tetrachloride

Concen: 0.516 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

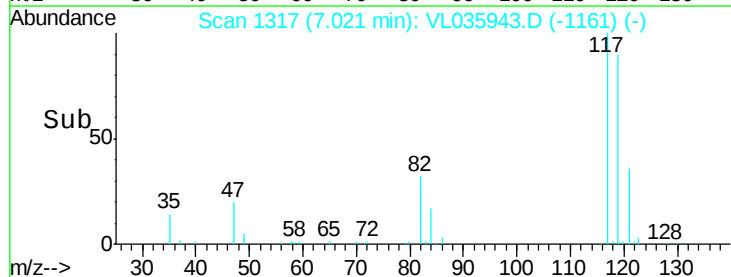
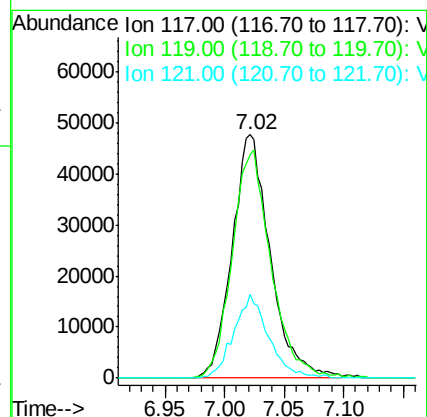
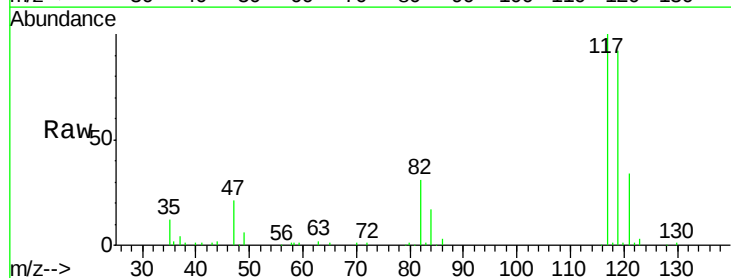
Tgt Ion: 117 Resp: 105977

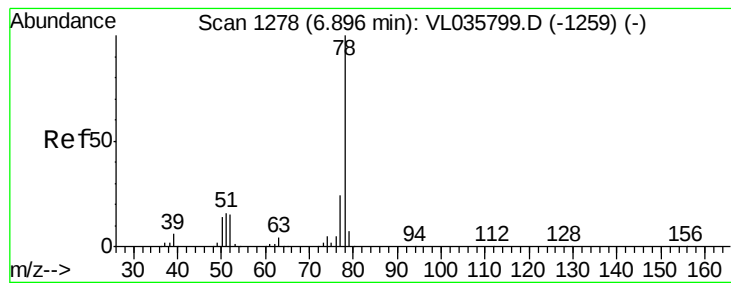
Ion Ratio Lower Upper

117 100

119 91.9 75.6 113.4

121 34.2 25.1 37.7





#36

Benzene

Concen: 0.191 ppbv m

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

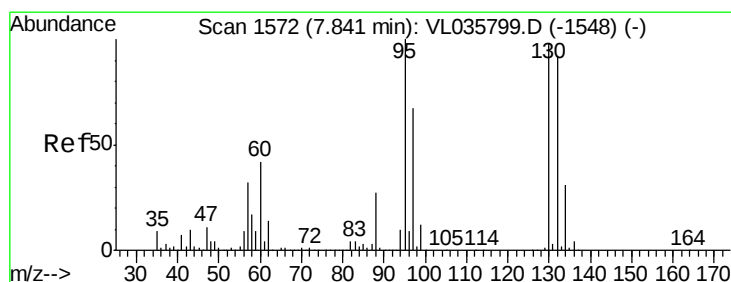
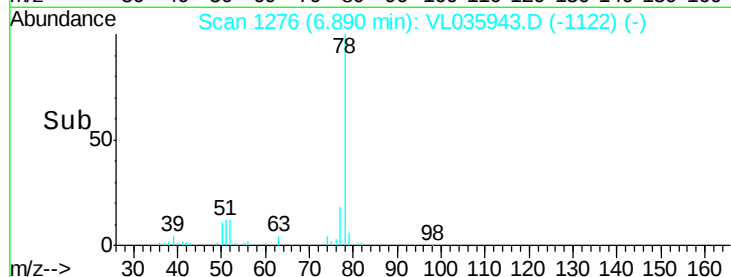
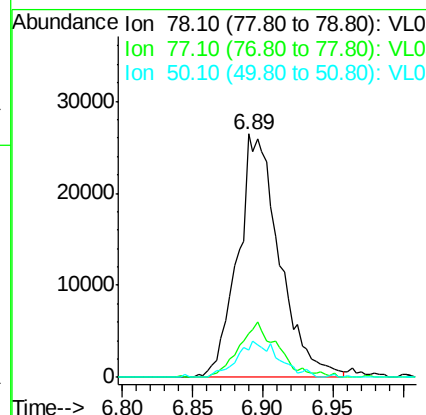
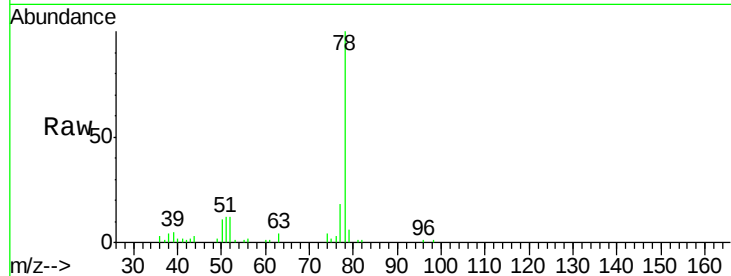
ClientSampleId :

AS-EFF-201112

Tot Ion:	78	Resp:	54519
Ion Ratio	Lower	Upper	
78	100		
77	18.0	19.3	28.9#
50	11.3	11.4	17.2#

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#38

Trichloroethene

Concen: 88.097 ppbv

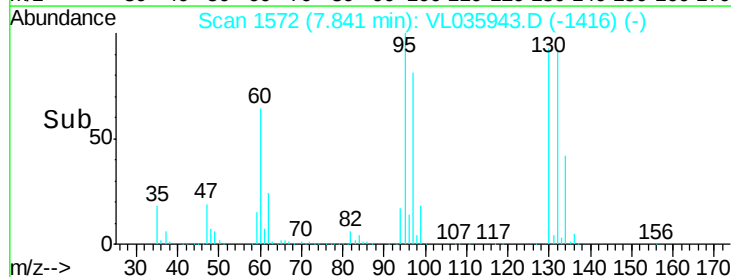
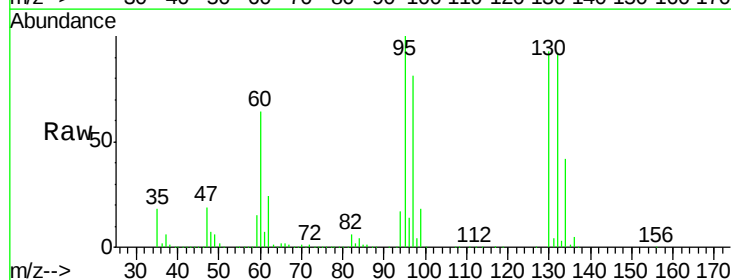
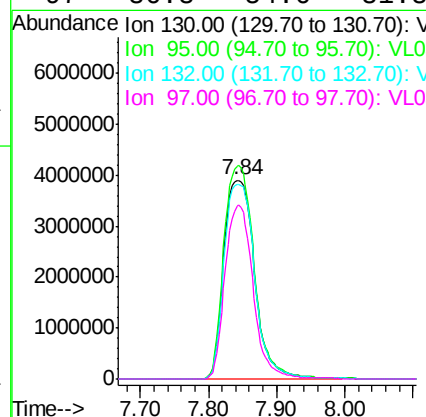
RT: 7.84 min Scan# 1572

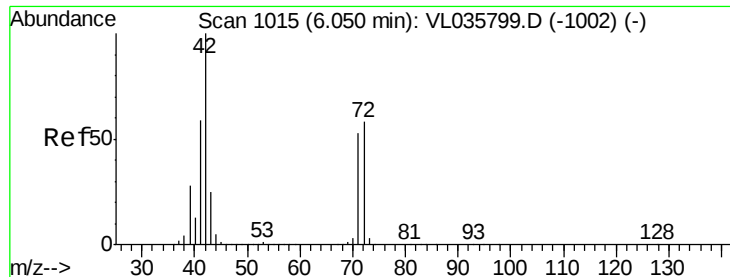
Delta R.T. 0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Tgt Ion:	130	Resp:	12292306
Ion Ratio	Lower	Upper	
130	100		
95	107.1	81.6	122.4
132	98.2	75.1	112.7
97	86.8	54.6	81.8#





#41

Tetrahydrofuran

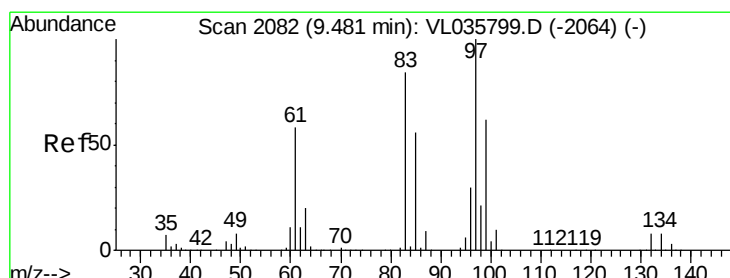
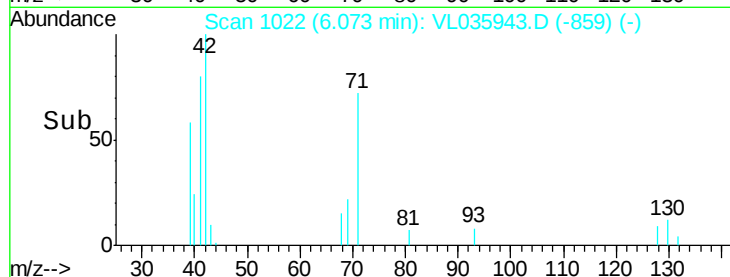
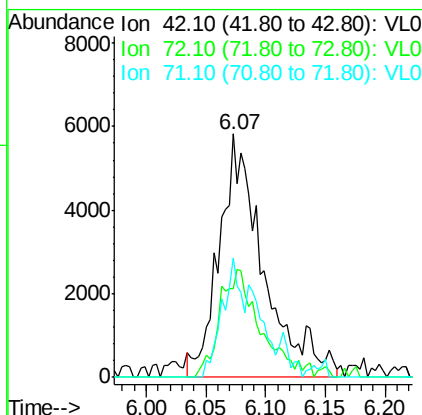
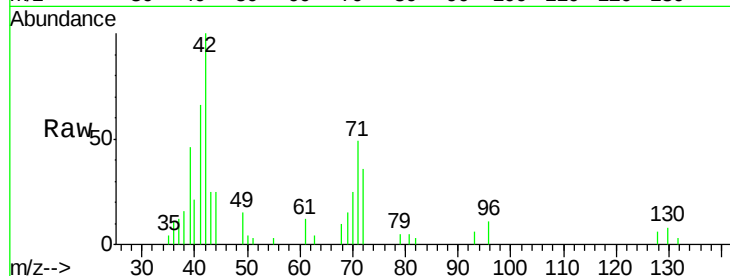
Concen: 0.211 ppbv m
RT: 6.07 min Scan# 1022
Delta R.T. 0.02 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	45.4	68.0#
71	0.0	43.4	65.2#

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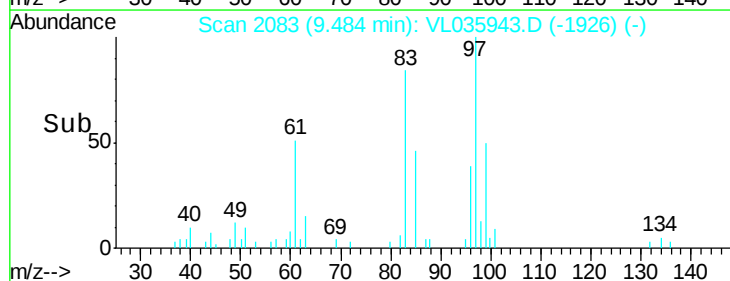
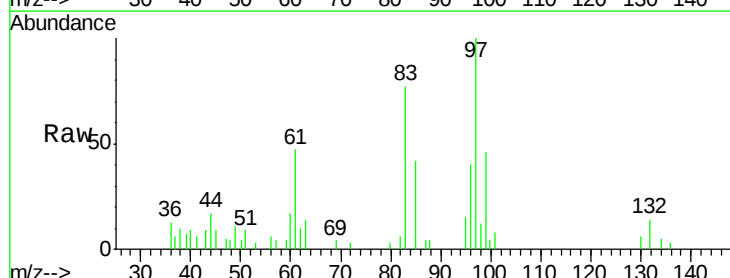
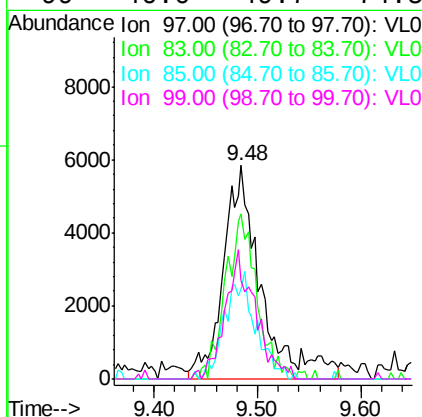


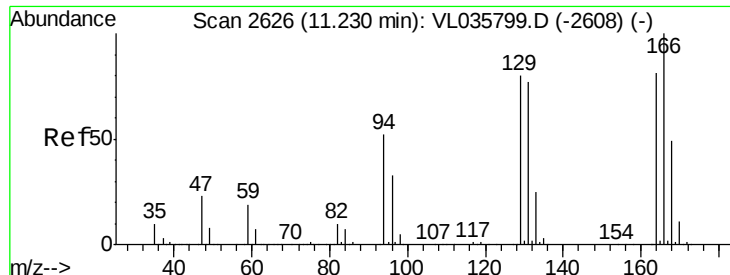
#47

1,1,2-Trichloroethane

Concen: 0.112 ppbv m
RT: 9.48 min Scan# 2083
Delta R.T. 0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Tgt Ion	Ratio	Lower	Upper
97	100		
83	77.4	67.1	100.7
85	41.9	44.7	67.1#
99	46.0	49.7	74.5#





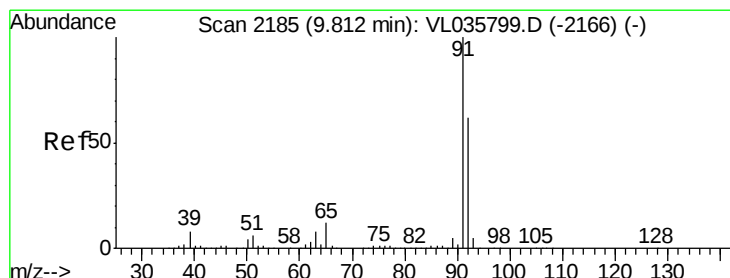
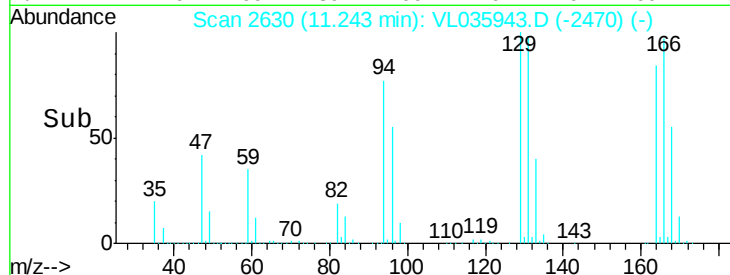
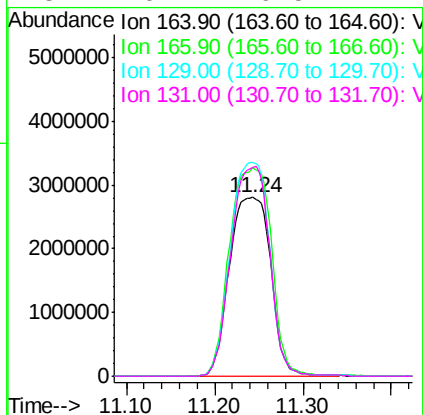
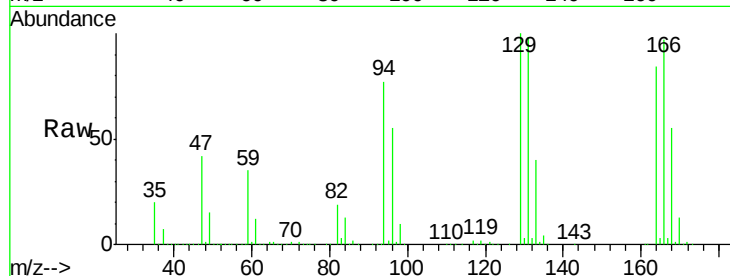
#52
Tetrachloroethene
Concen: 67.248 ppbv m
RT: 11.24 min Scan# 2630
Delta R.T. 0.01 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112

Tot Ion:164 Resp: 9101173
Ion Ratio Lower Upper
164 100
166 116.3 99.3 148.9
129 119.4 79.3 118.9#
131 116.7 76.5 114.7#

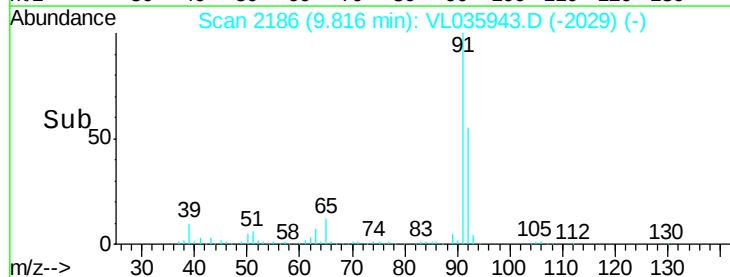
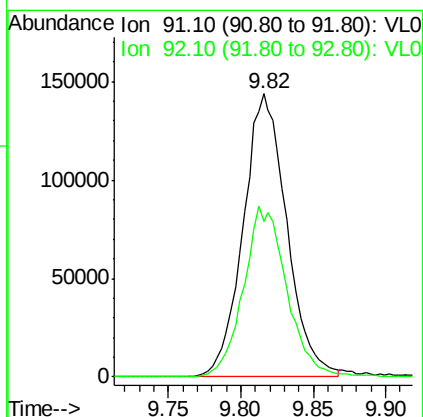
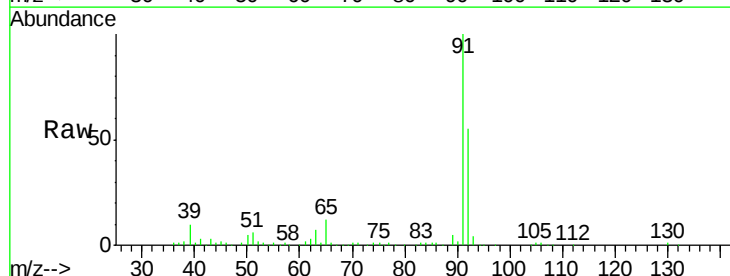
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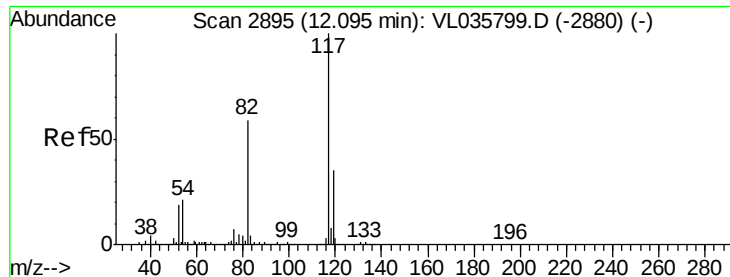
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#53
Toluene
Concen: 0.874 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Tgt Ion: 91 Resp: 301264
Ion Ratio Lower Upper
91 100
92 60.3 49.8 74.6





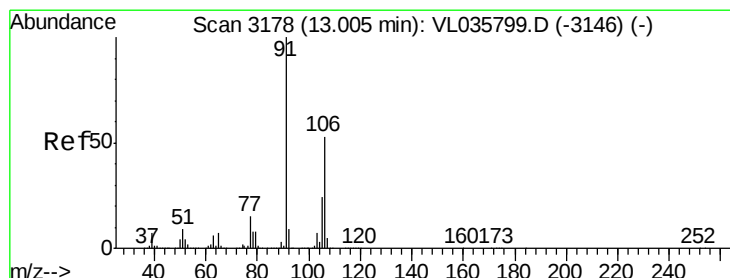
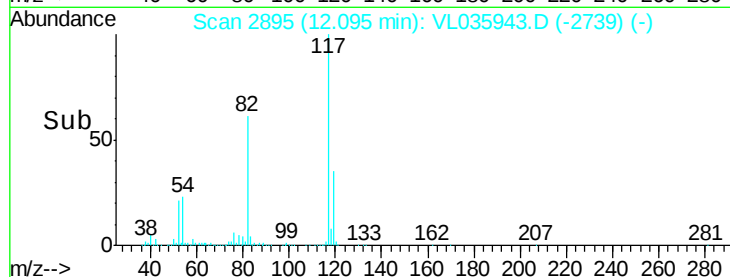
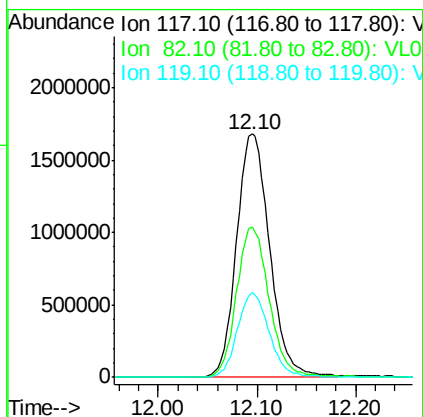
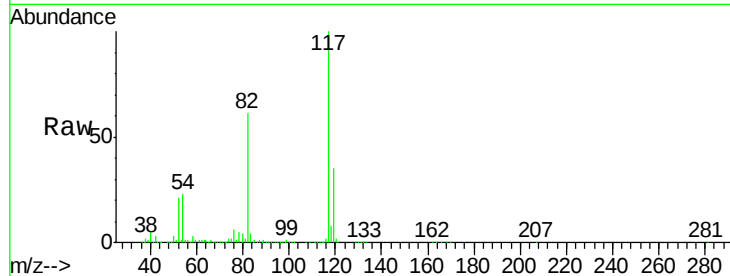
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112

Tot Ion:117 Resp: 3916928
Ion Ratio Lower Upper
117 100
82 61.8 50.6 76.0
119 34.1 52.6 78.8#

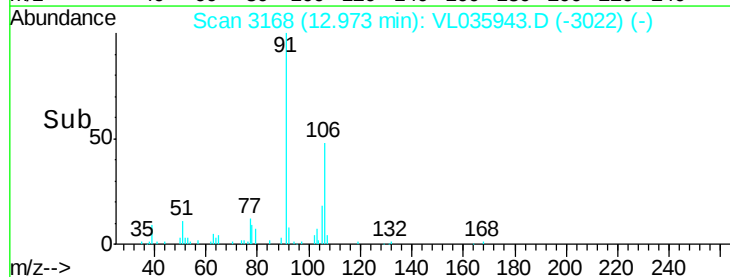
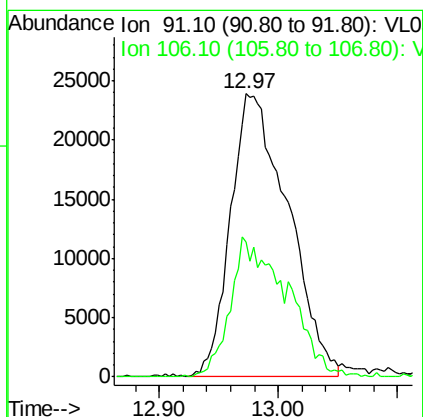
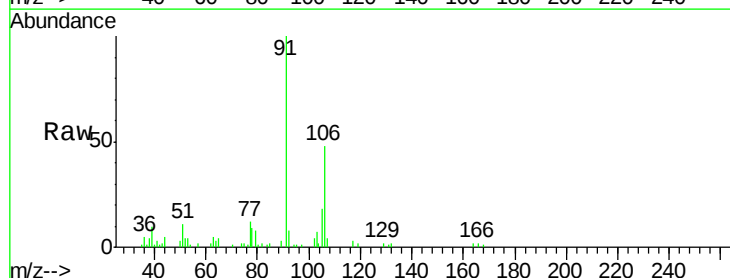
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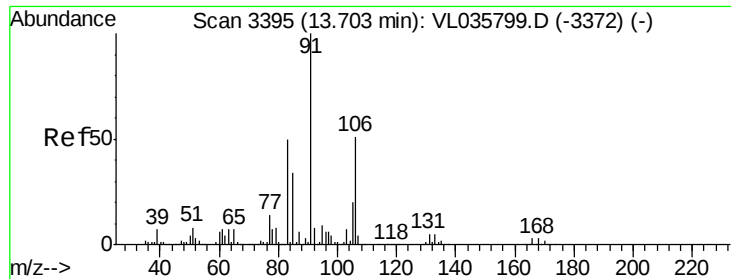
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#59
m/p-Xylene
Concen: 0.198 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Tgt Ion: 91 Resp: 79847
Ion Ratio Lower Upper
91 100
106 48.5 39.5 59.3





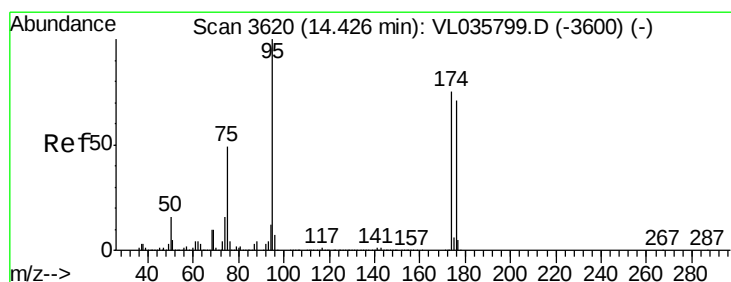
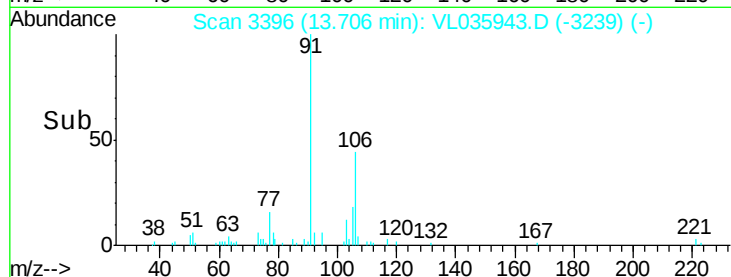
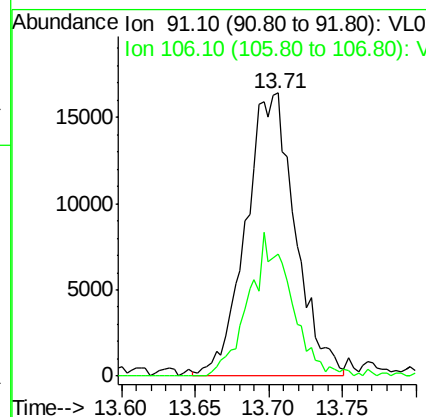
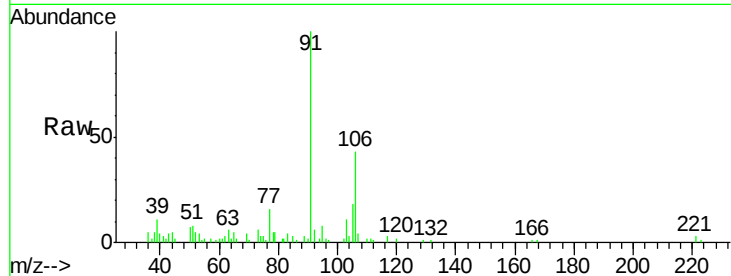
#60
o-Xylene
Concen: 0.098 ppbv m
RT: 13.71 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112

Tot Ion: 91 Resp: 38405
Ion Ratio Lower Upper
91 100
106 0.0 24.8 74.4#

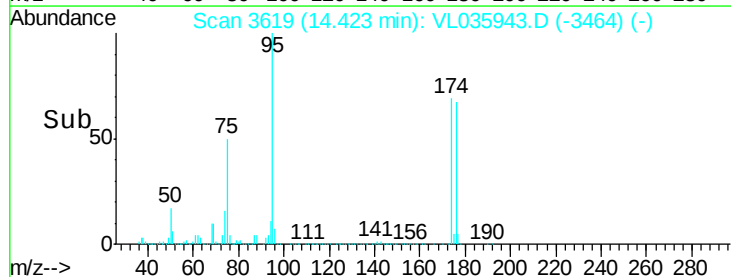
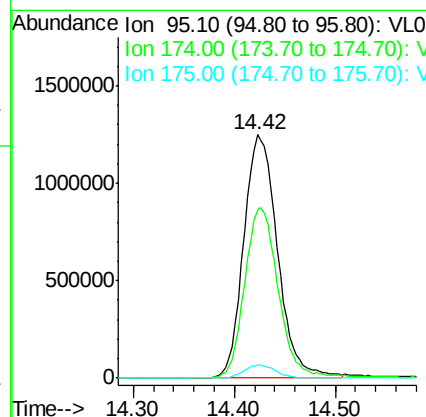
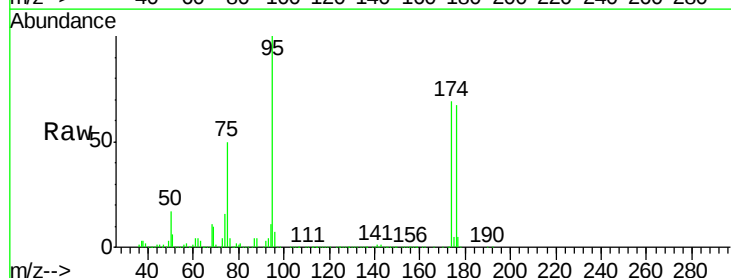
Manual Integrations
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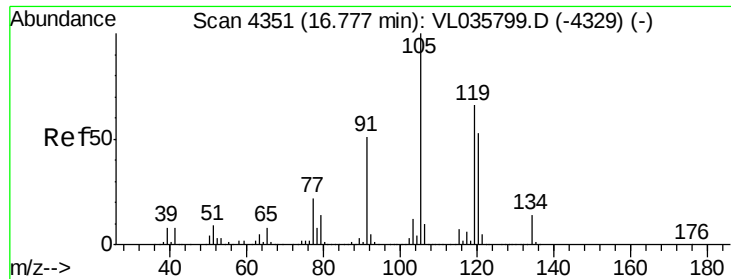
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.448 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL035943.D
Acq: 16 Nov 2020 14:40

Tgt Ion: 95 Resp: 2907647
Ion Ratio Lower Upper
95 100
174 70.9 59.8 89.6
175 5.1 4.3 6.5





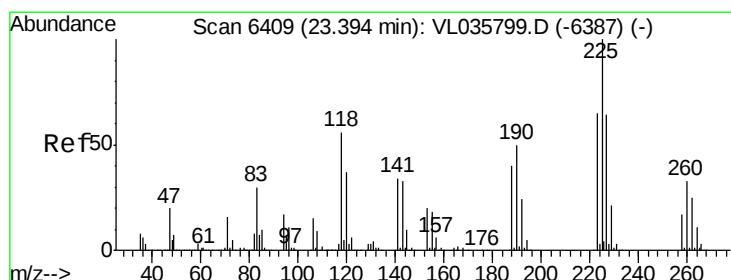
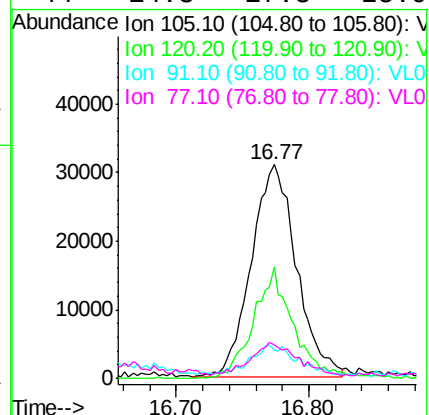
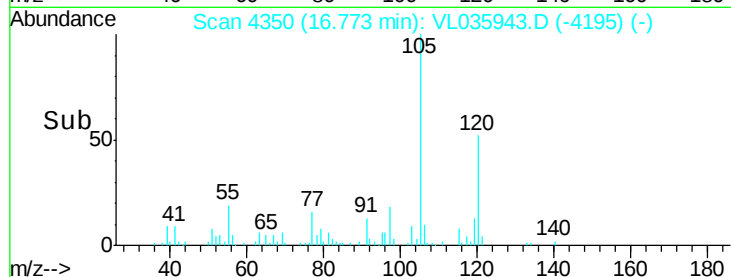
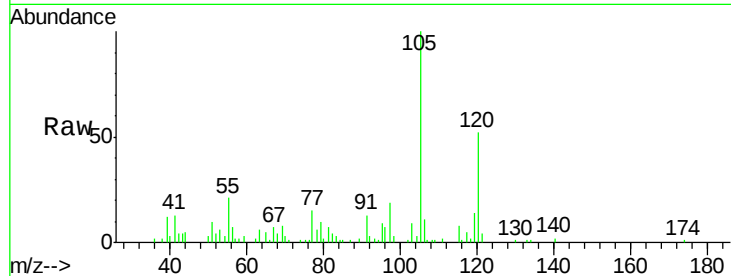
#74
 1,2,4-Trimethylbenzene
 Concen: 0.158 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL035943.D
 Acq: 16 Nov 2020 14:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AS-EFF-201112

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
120	52.2	42.0	63.0	
91	11.4	41.0	61.6	
77	14.3	17.3	25.9	

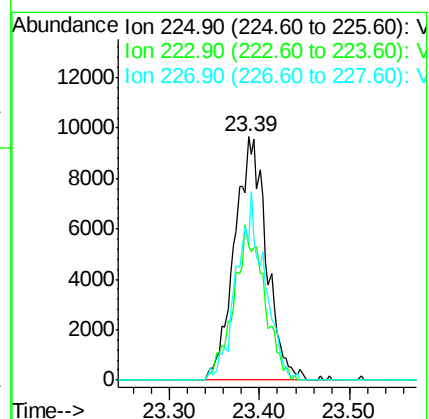
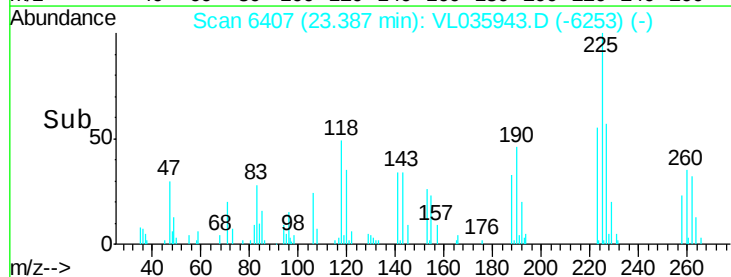
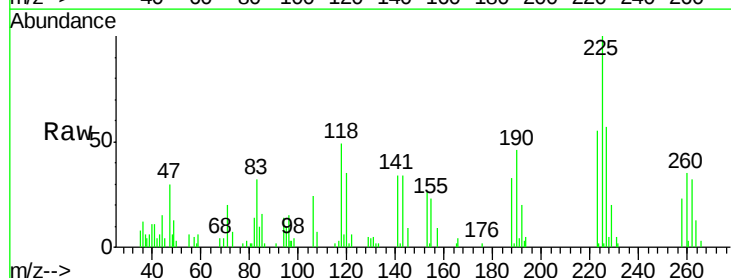
Manual Integrations
 APPROVED

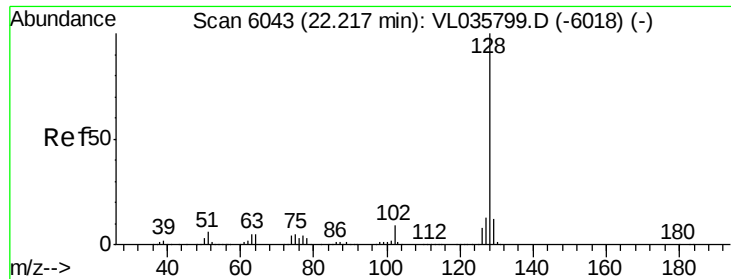
MMDadoda
 11/18/2020 2:11:17 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.176 ppbv m
 RT: 23.39 min Scan# 6407
 Delta R.T. -0.01 min
 Lab File: VL035943.D
 Acq: 16 Nov 2020 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	0.0	51.0	76.6	
227	0.0	51.2	76.8	





#79

Naphthalene

Concen: 0.103 ppbv m

RT: 22.22 min Scan# 6043

Delta R.T. 0.00 min

Lab File: VL035943.D

Acq: 16 Nov 2020 14:40

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112

Tot Ion:	128	Resp:	33565
Ion Ratio		Lower	Upper
128	100		
127	12.1	10.2	15.4
129	13.0	9.2	13.8

Manual Integrations
APPROVED

MMDadoda
11/18/2020 2:11:17 PM

