

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
 Data File : VL034115.D
 Acq On : 13 Aug 2019 00:16
 Operator : SY/AP
 Sample : K4296-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI3

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:54:40 AM

Quant Time: Aug 13 13:45:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 0
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1096499	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2027203	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2050726	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1742886	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	40329	0.299	ppbv	92
3) Chlorodifluoromethane	2.98	51	46256m	0.365	ppbv	
4) Chloromethane	3.14	50	40598	0.497	ppbv	100
9) Propene	3.02	41	31365m	0.420	ppbv	
10) Heptane	8.19	43	44145m	0.228	ppbv	
11) Trichlorofluoromethane	3.97	101	35558	0.222	ppbv	94
13) Ethanol	3.66	45	17579158	834.460	ppbv	79
15) Acetone	3.86	43	9239912	58.970	ppbv #	44
19) Isopropyl Alcohol	4.06	45	12855930m	105.374	ppbv	
20) Methylene Chloride	4.38	84	47977m	1.021	ppbv	
26) Hexane	5.73	57	99772	0.764	ppbv #	1
34) 2-Butanone	5.29	43	111276	0.590	ppbv	98
35) Carbon Tetrachloride	7.09	117	9120m	0.059	ppbv	
36) Benzene	6.95	78	42437	0.184	ppbv #	90
41) Tetrahydrofuran	6.12	42	17420m	0.150	ppbv	
43) Methyl Methacrylate	8.08	69	1879056	19.882	ppbv	96
52) Tetrachloroethene	11.31	164	4352m	0.049	ppbv	
53) Toluene	9.89	91	1785423	6.715	ppbv	96
58) Ethyl Benzene	12.80	91	35214m	0.102	ppbv	
59) m/p-Xylene	13.06	91	90331m	0.326	ppbv	
60) o-Xylene	13.79	91	33561m	0.121	ppbv	
61) Styrene	13.62	104	28311m	0.129	ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	58029m	0.178	ppbv	
79) Naphthalene	22.34	128	217601m	0.643	ppbv	

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

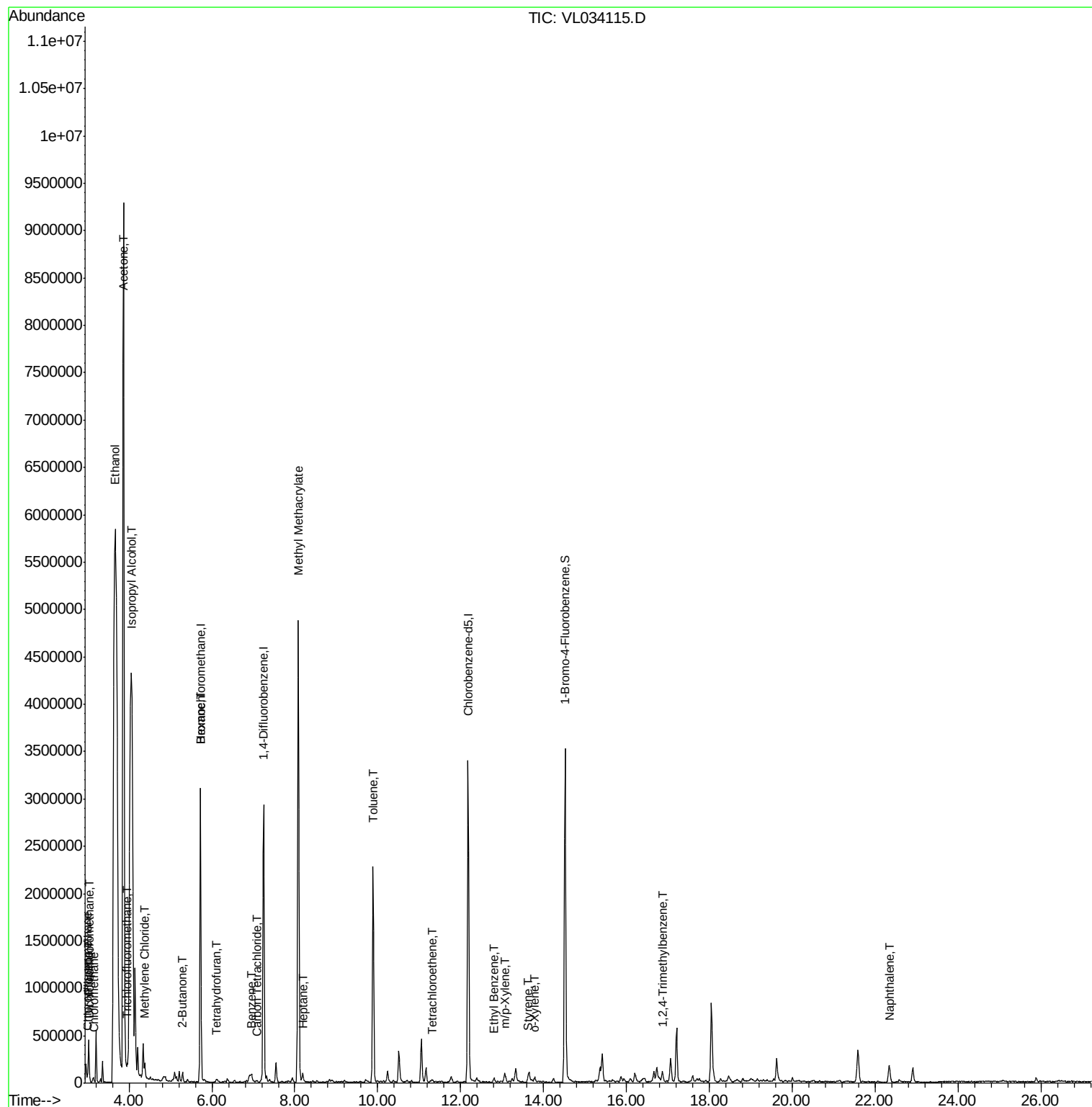
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081219\
Data File : VL034115.D
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Misc : 400ml/MSVOA L
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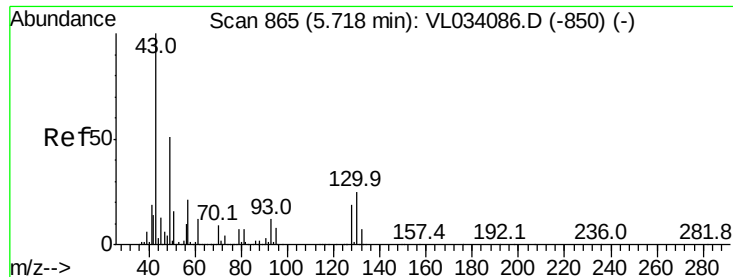
Instrument :
MSVOA_L
ClientSampleId :
SRS-0807-VI3

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Quant Time: Aug 13 13:45:46 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 05 17:09:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 867

Delta R.T. 0.01 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

Tot Ion: 49 Resp: 1096499

Ion Ratio Lower Upper

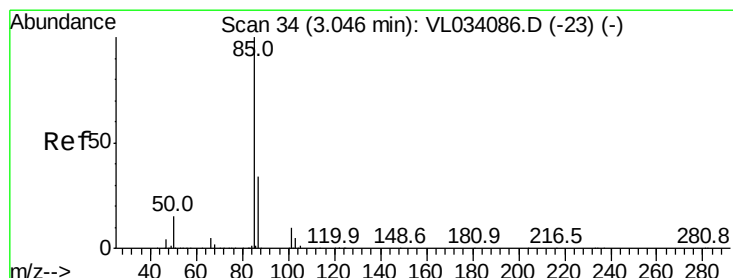
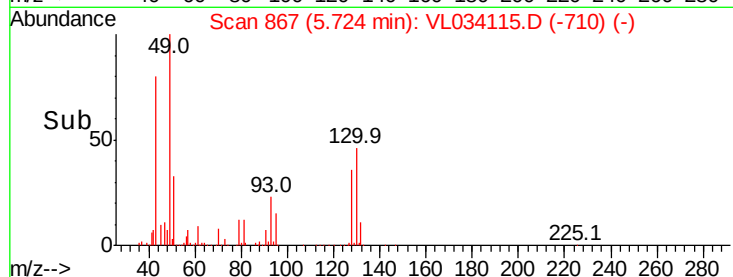
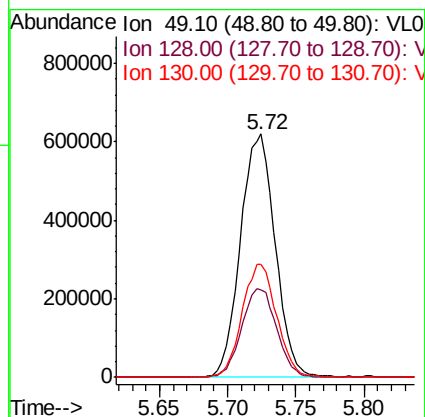
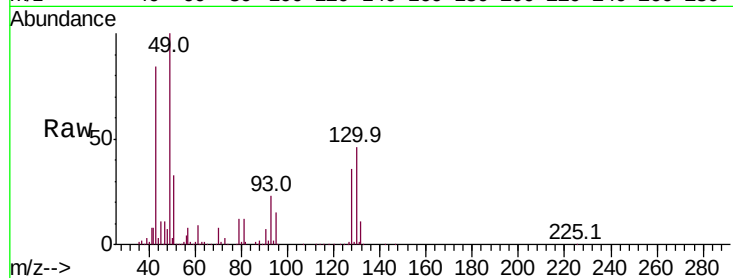
49 100

128 36.8 19.5 58.5

130 46.5 25.4 76.0

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#2

Dichlorodifluoromethane

Concen: 0.299 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.00 min

Lab File: VL034115.D

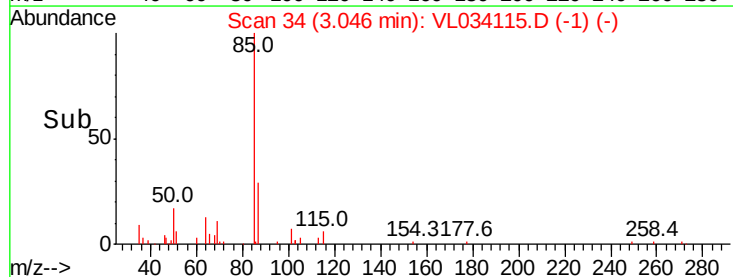
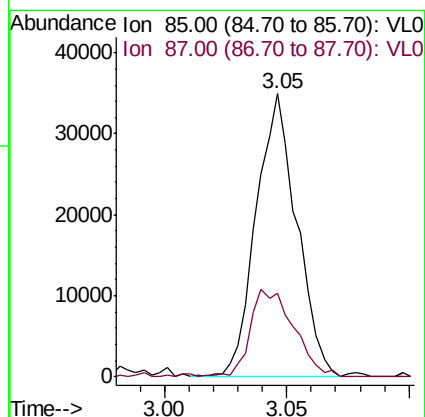
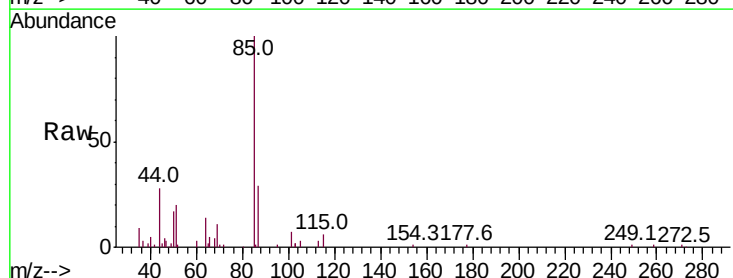
Acq: 13 Aug 2019 00:16

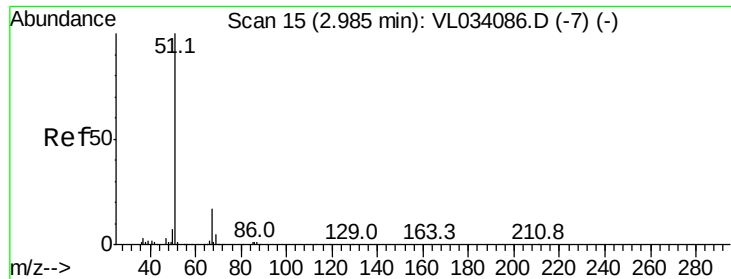
Tgt Ion: 85 Resp: 40329

Ion Ratio Lower Upper

85 100

87 29.4 27.1 40.7





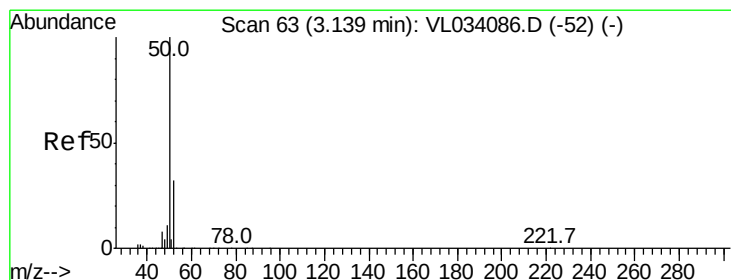
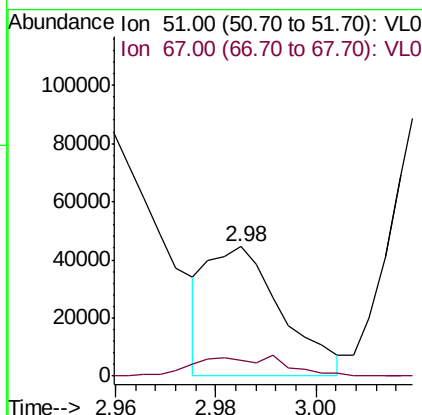
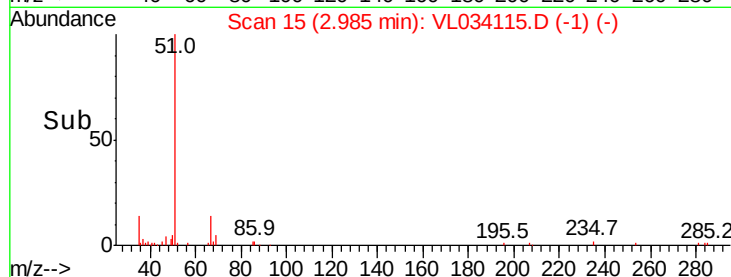
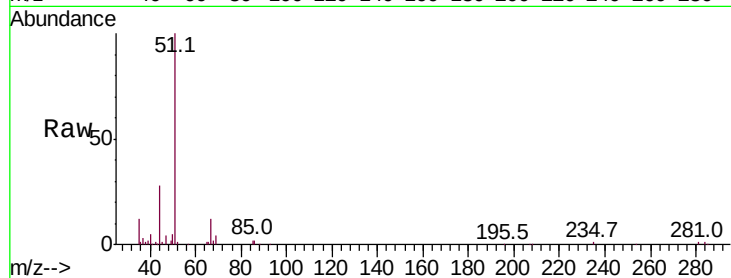
#3
Chlorodifluoromethane
Concen: 0.365 ppbv
RT: 2.98 min Scan# 15
Delta R.T. -0.00 min
Lab File: VL034115.D
Acq: 13 Aug 2019 00:16

Instrument :
MSVOA_L
ClientSampled :
SRS-0807-VI3

Tot Ion	51	Resp	46256
Ion	Ratio	Lower	Upper
51	100		
67	18.2	13.3	19.9

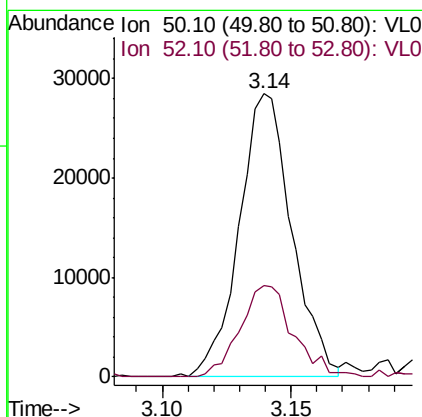
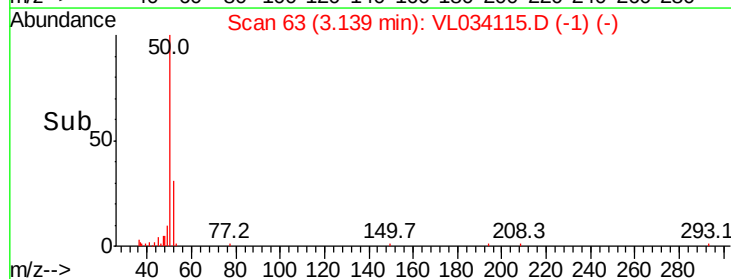
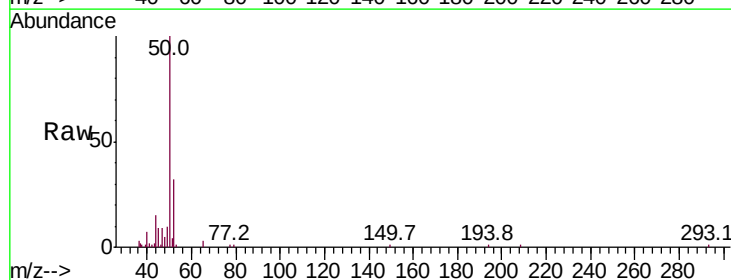
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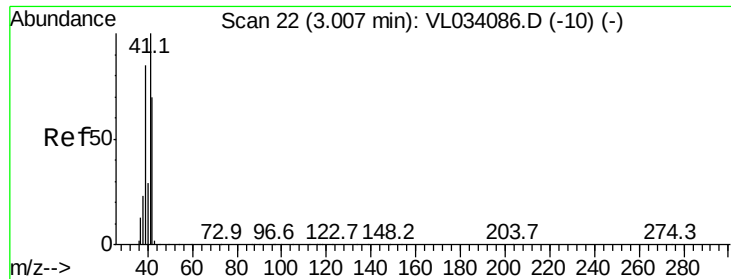
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#4
Chloromethane
Concen: 0.497 ppbv
RT: 3.14 min Scan# 63
Delta R.T. -0.00 min
Lab File: VL034115.D
Acq: 13 Aug 2019 00:16

Tgt Ion	50	Resp	40598
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.7	38.5





#9

Propene

Concen: 0.420 ppbv m

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

Tot Ion: 41 Resp: 31365

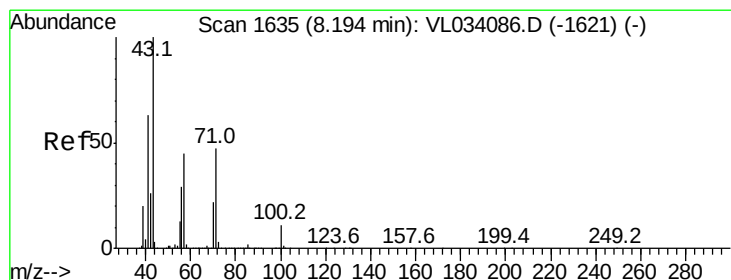
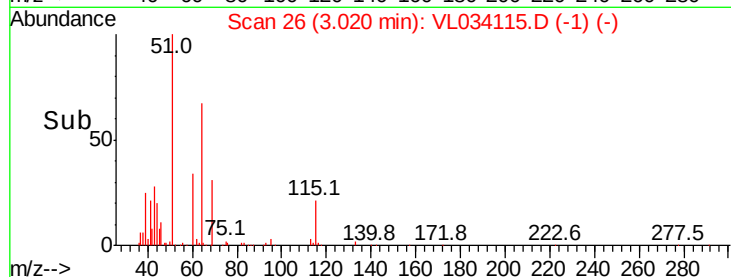
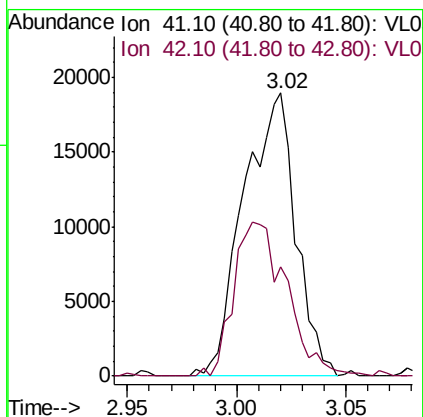
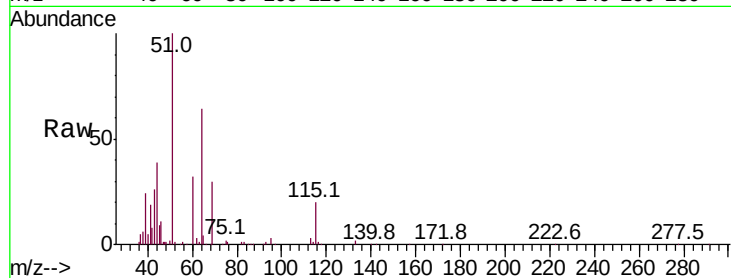
Ion Ratio Lower Upper

41 100

42 297.8 55.8 83.6#

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#10

Heptane

Concen: 0.228 ppbv m

RT: 8.19 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VL034115.D

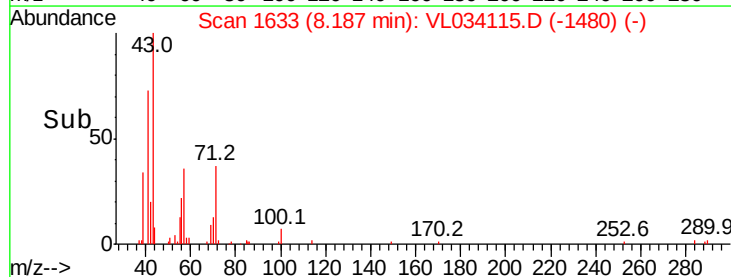
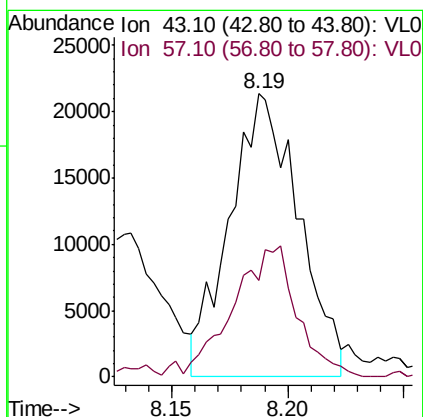
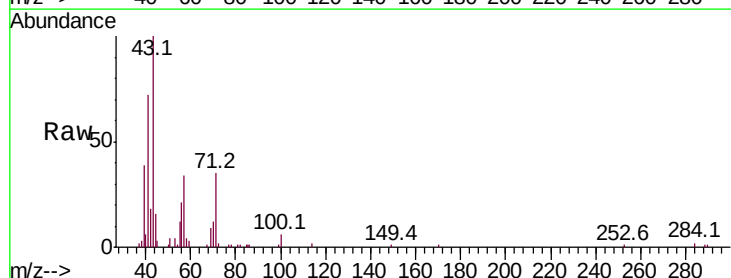
Acq: 13 Aug 2019 00:16

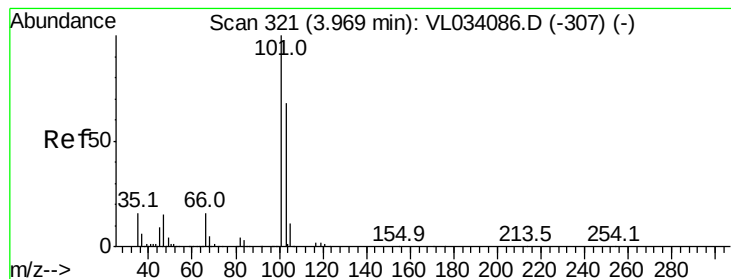
Tgt Ion: 43 Resp: 44145

Ion Ratio Lower Upper

43 100

57 43.2 37.2 55.8





#11

Trichlorofluoromethane

Concen: 0.222 ppbv

RT: 3.97 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

Tot Ion:101 Resp: 35558

Ion Ratio Lower Upper

101 100

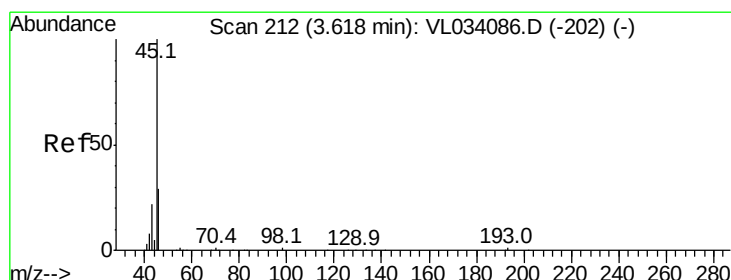
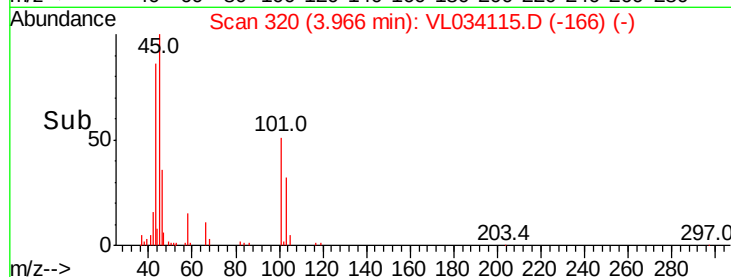
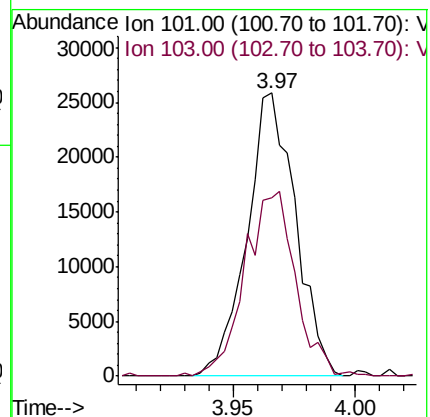
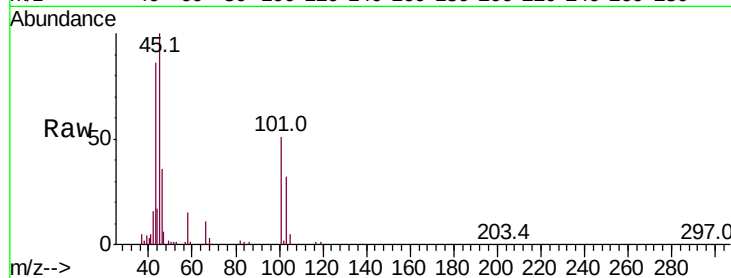
103 63.1 54.3 81.5

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#13

Ethanol

Concen: 834.460 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.04 min

Lab File: VL034115.D

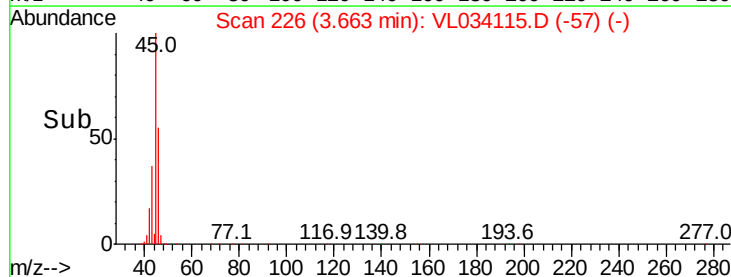
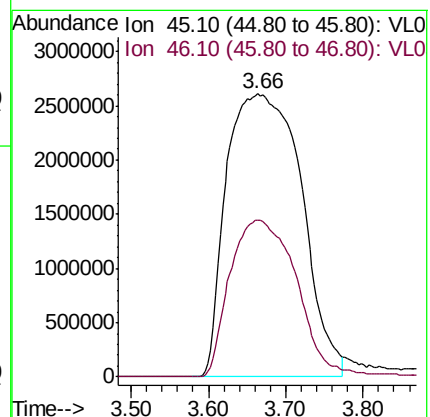
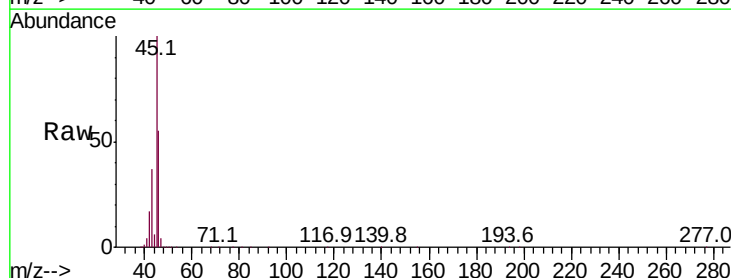
Acq: 13 Aug 2019 00:16

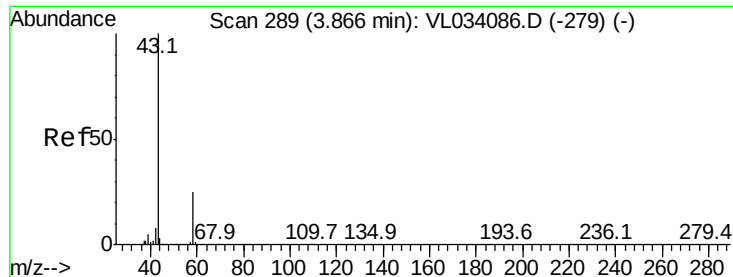
Tgt Ion: 45 Resp:17579158

Ion Ratio Lower Upper

45 100

46 49.7 14.9 59.5





#15

Acetone

Concen: 58.970 ppbv

RT: 3.86 min Scan# 288

Delta R.T. -0.00 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

Tot Ion: 43 Resp: 9239912

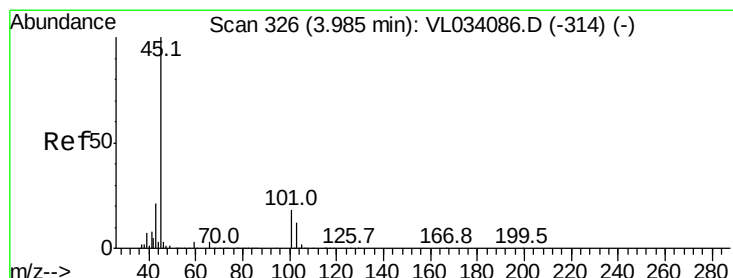
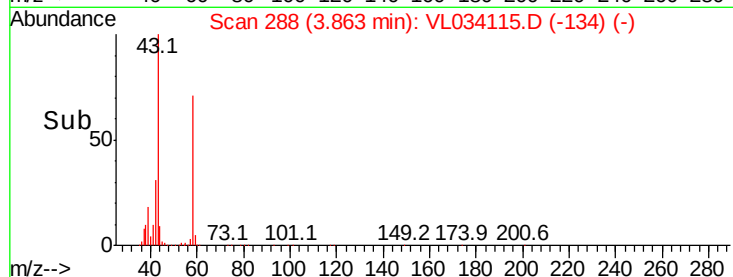
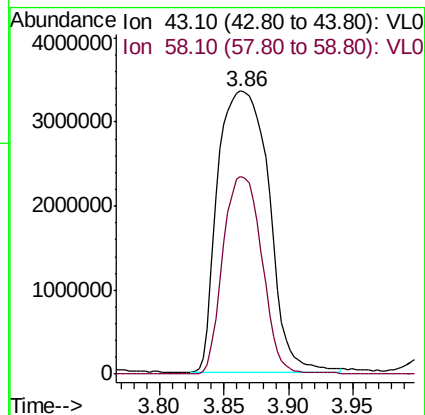
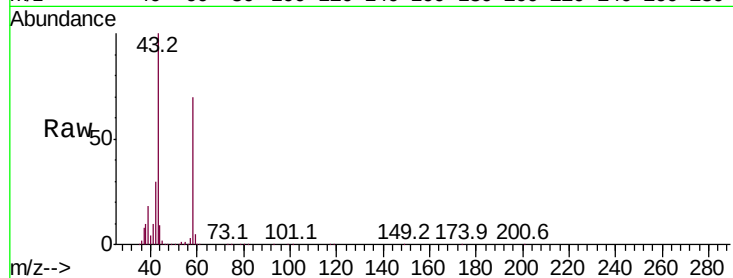
Ion Ratio Lower Upper

43 100

58 53.9 20.6 30.8#

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#19

Isopropyl Alcohol

Concen: 105.374 ppbv m

RT: 4.06 min Scan# 348

Delta R.T. 0.07 min

Lab File: VL034115.D

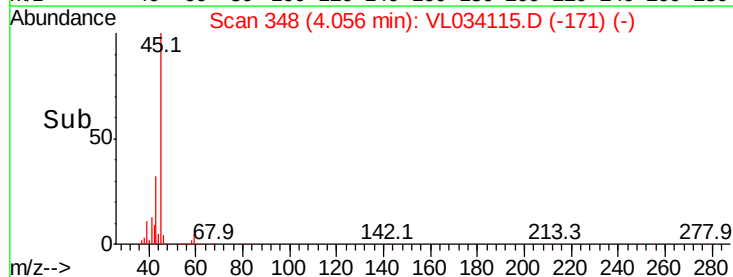
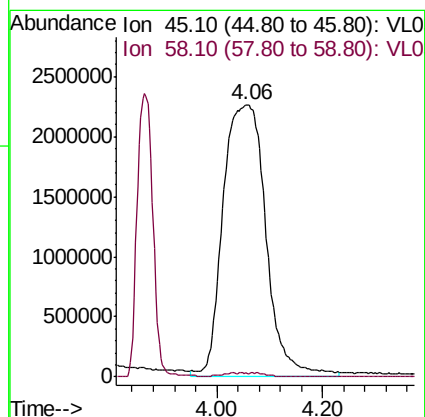
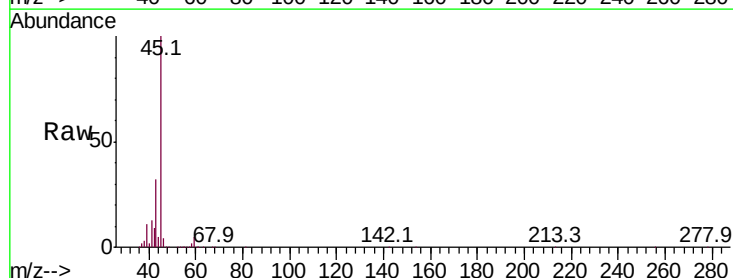
Acq: 13 Aug 2019 00:16

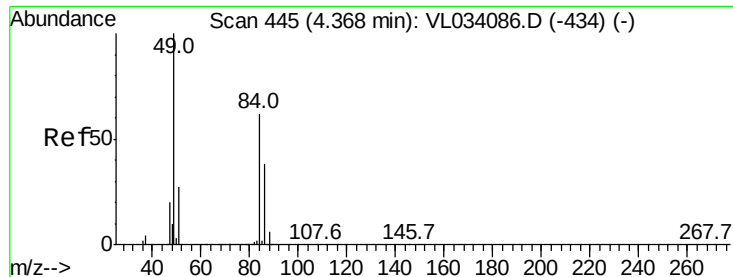
Tgt Ion: 45 Resp: 12855930

Ion Ratio Lower Upper

45 100

58 0.0 24.6 37.0#





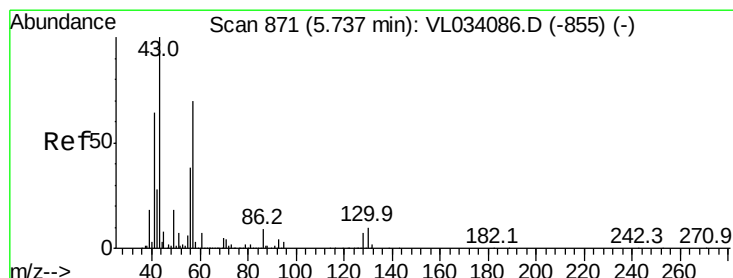
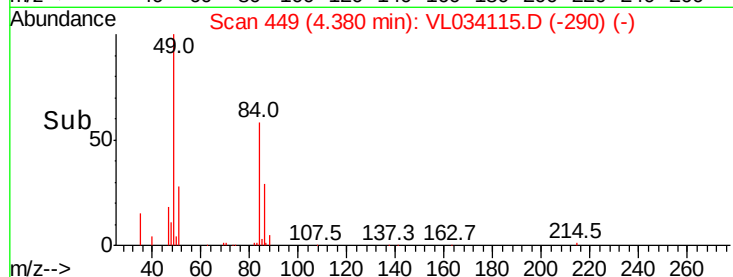
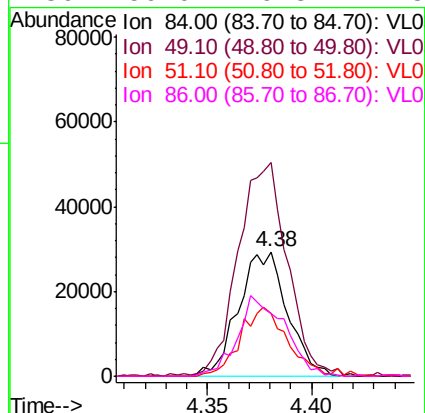
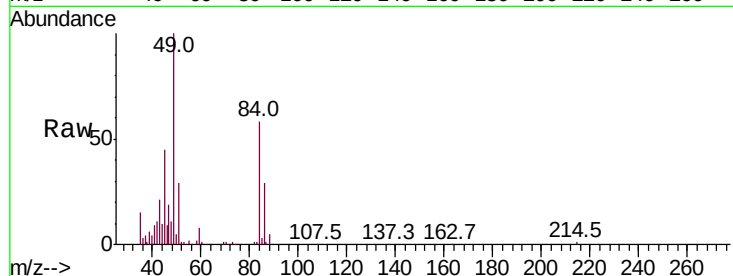
#20
Methvlene Chloride
Concen: 1.021 ppbv
RT: 4.38 min Scan# 449
Delta R.T. 0.01 min
Lab File: VL034115.D
Acq: 13 Aug 2019 00:16

Instrument :
MSVOA_L
ClientSampleId :
SRS-0807-VI3

Tot Ion	84	Resp	47977
Ion Ratio	Lower	Upper	
84	100		
49	171.5	129.7	194.5
51	50.2	35.8	53.8
86	50.0	49.8	74.8

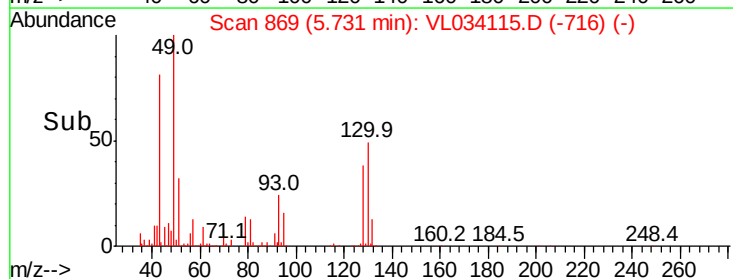
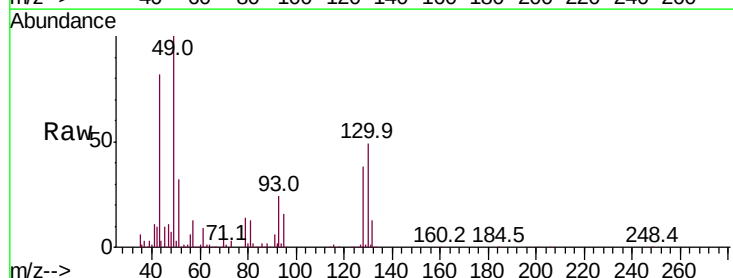
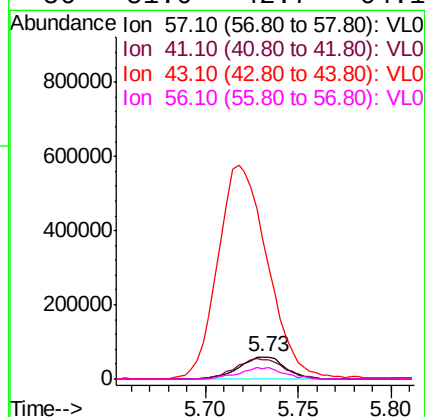
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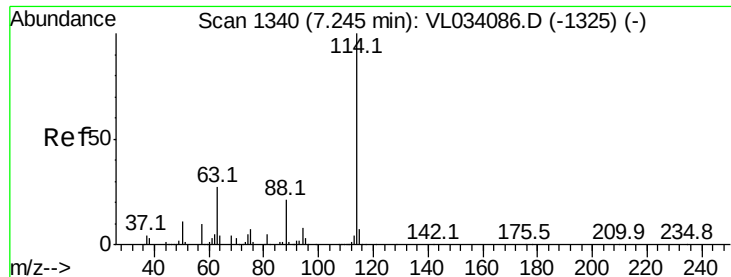
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#26
Hexane
Concen: 0.764 ppbv
RT: 5.73 min Scan# 869
Delta R.T. -0.01 min
Lab File: VL034115.D
Acq: 13 Aug 2019 00:16

Tgt Ion	57	Resp	99772
Ion Ratio	Lower	Upper	
57	100		
41	101.2	75.7	113.5
43	1085.5	189.8	284.8#
56	51.0	42.7	64.1





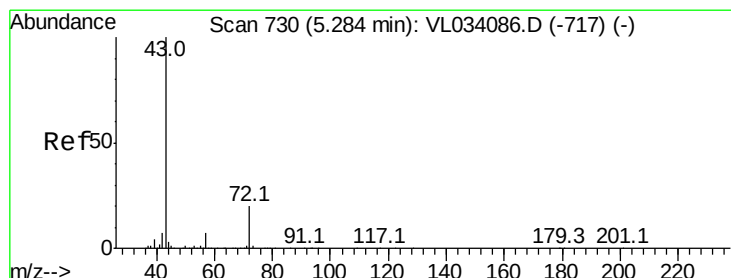
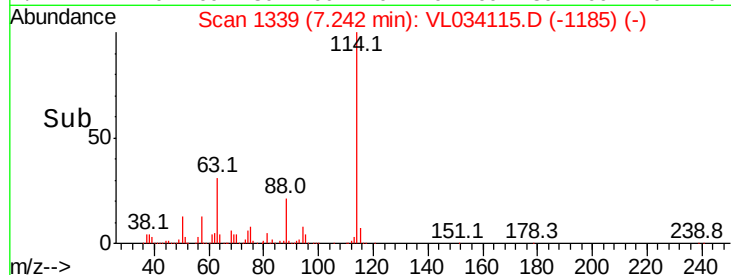
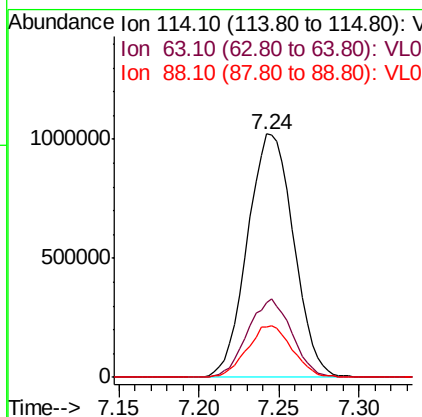
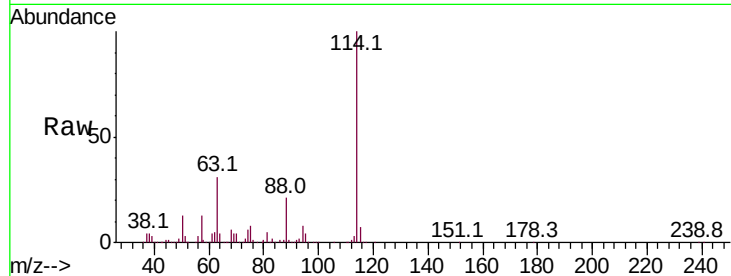
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: VL034115.D
 Acq: 13 Aug 2019 00:16

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI3

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.9	22.5	33.7
88	20.7	15.7	23.5

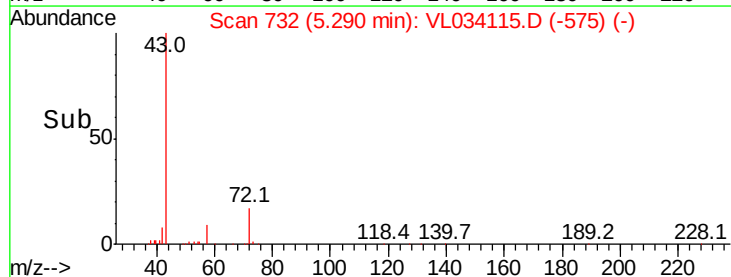
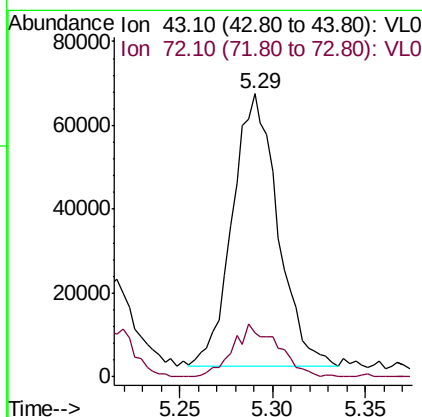
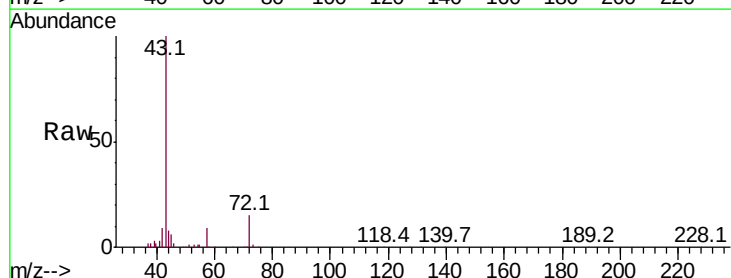
Manual Integrations
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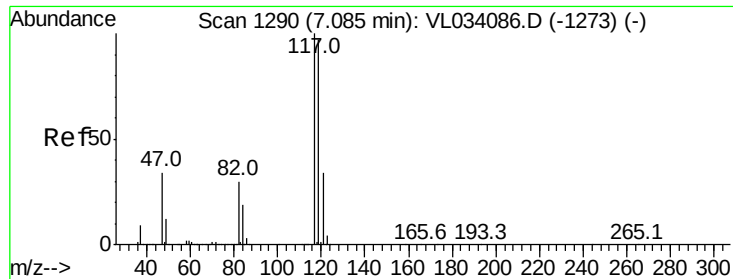
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#34
 2-Butanone
 Concen: 0.590 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. 0.01 min
 Lab File: VL034115.D
 Acq: 13 Aug 2019 00:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.1	16.0	24.0





#35

Carbon Tetrachloride

Concen: 0.059 ppbv m

RT: 7.09 min Scan# 1292

Delta R.T. 0.01 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

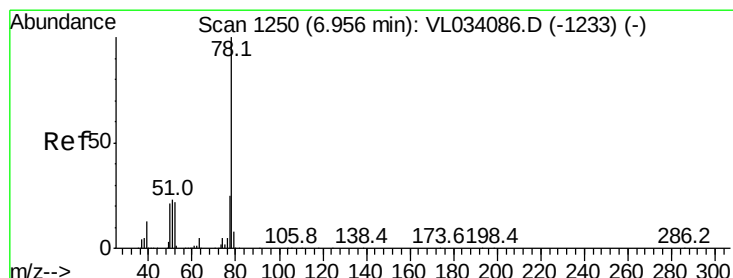
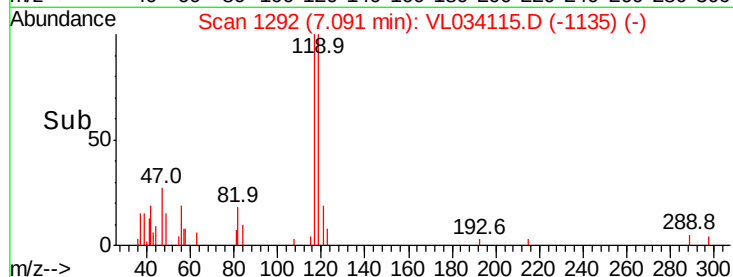
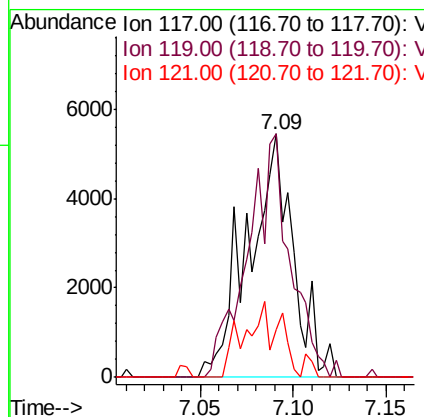
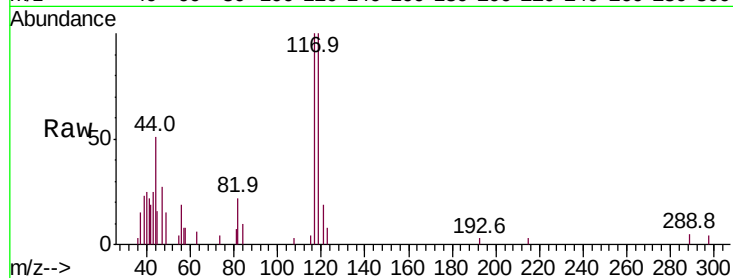
ClientSampleId :

SRS-0807-VI3

Tot Ion:	117	Resp:	9120
Ion Ratio	Lower	Upper	
117	100		
119	100.1	77.8	116.6
121	19.5	27.4	41.2#

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#36

Benzene

Concen: 0.184 ppbv

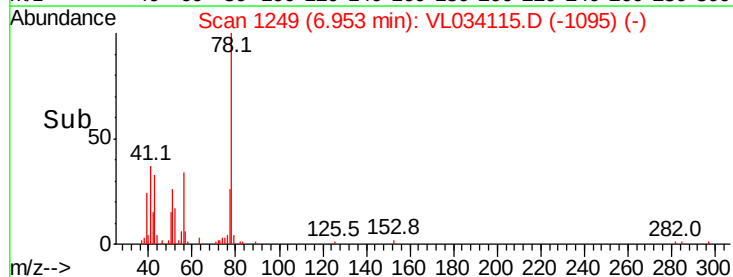
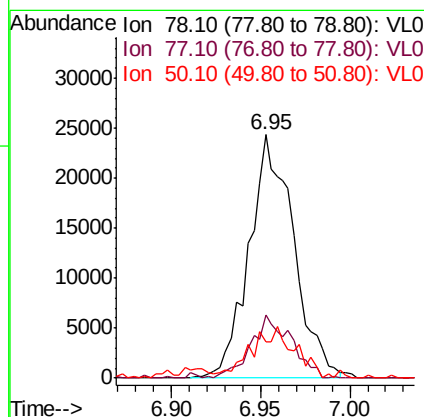
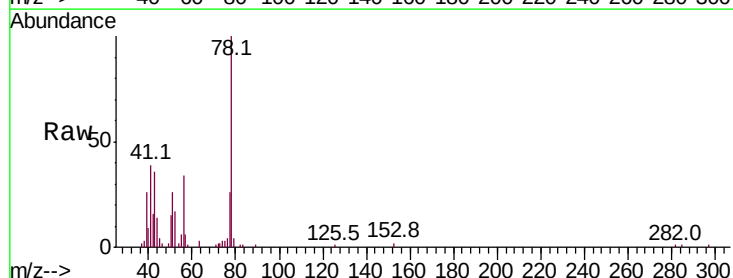
RT: 6.95 min Scan# 1249

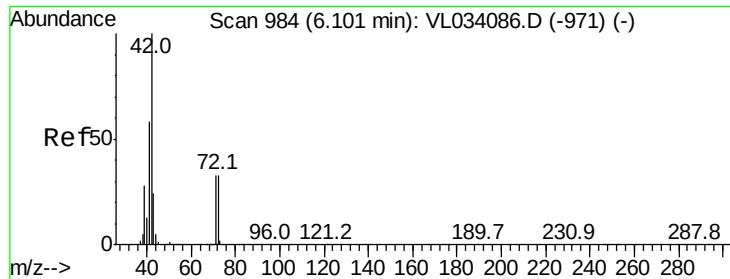
Delta R.T. -0.00 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Tgt Ion:	78	Resp:	42437
Ion Ratio	Lower	Upper	
78	100		
77	25.7	19.9	29.9
50	11.9	16.7	25.1#





#41

Tetrahydrofuran

Concen: 0.150 ppbv m

RT: 6.12 min Scan# 989

Delta R.T. 0.02 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

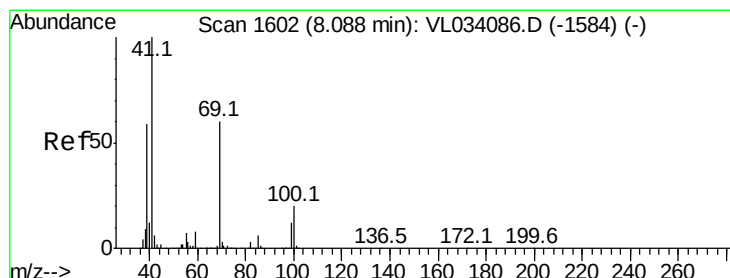
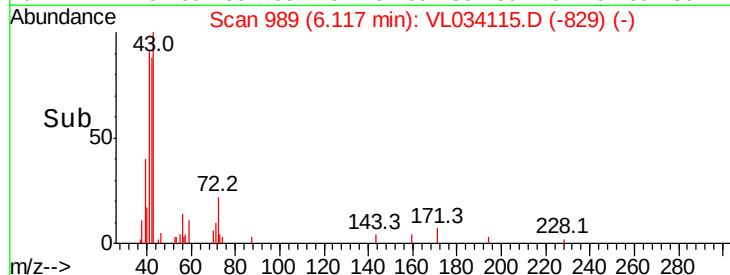
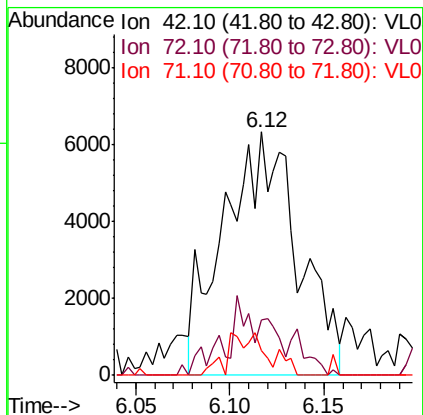
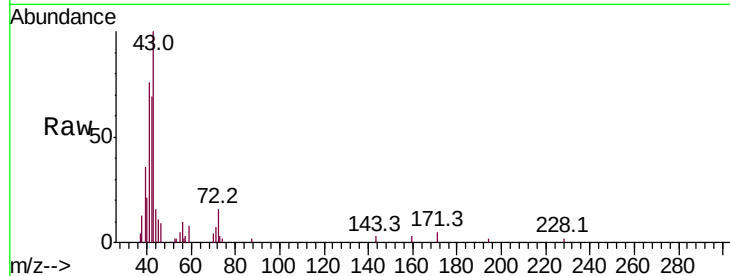
ClientSampleId :

SRS-0807-VI3

Tot Ion:	42	Resp:	17420
Ion Ratio	Lower	Upper	
42	100		
72	0.0	26.9	40.3#
71	0.0	26.5	39.7#

Manual Integrations
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#43

Methyl Methacrylate

Concen: 19.882 ppbv

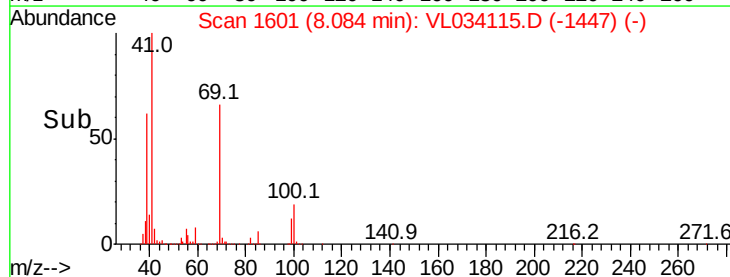
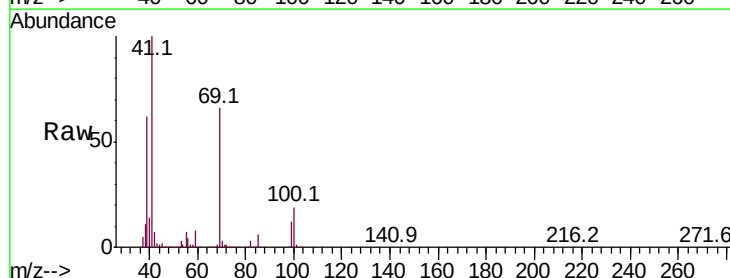
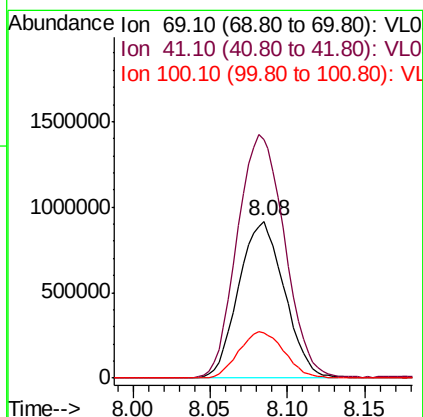
RT: 8.08 min Scan# 1601

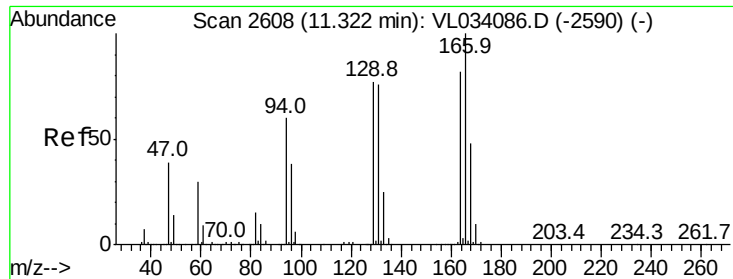
Delta R.T. -0.00 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Tgt Ion:	69	Resp:	1879056
Ion Ratio	Lower	Upper	
69	100		
41	161.7	132.9	199.3
100	29.5	25.8	38.8





#52

Tetrachloroethene

Concen: 0.049 ppbv m

RT: 11.31 min Scan# 2605

Delta R.T. -0.01 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

Tot Ion:164 Resp: 4352

Ion Ratio Lower Upper

164 100

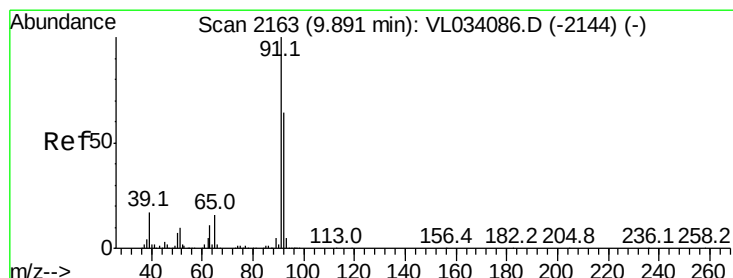
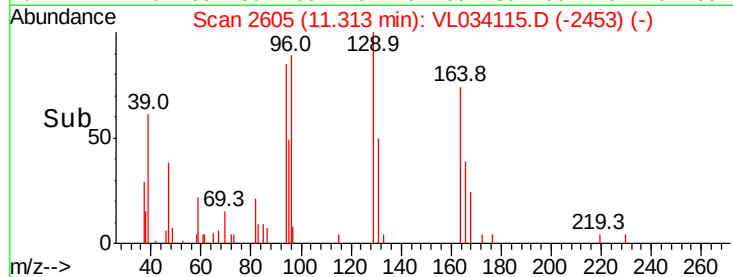
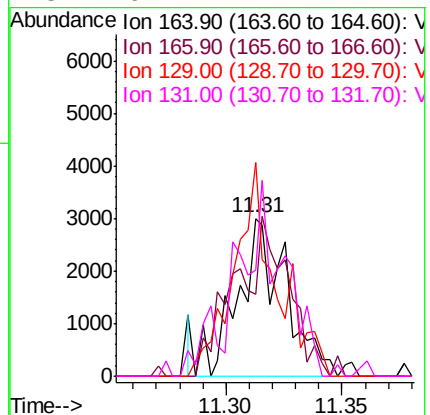
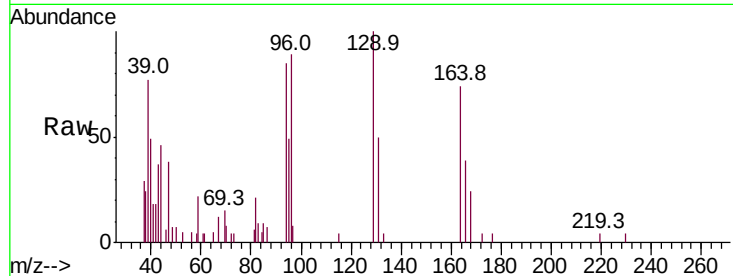
166 52.2 96.8 145.2#

129 135.6 74.9 112.3#

131 67.2 74.2 111.2#

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#53

Toluene

Concen: 6.715 ppbv

RT: 9.89 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VL034115.D

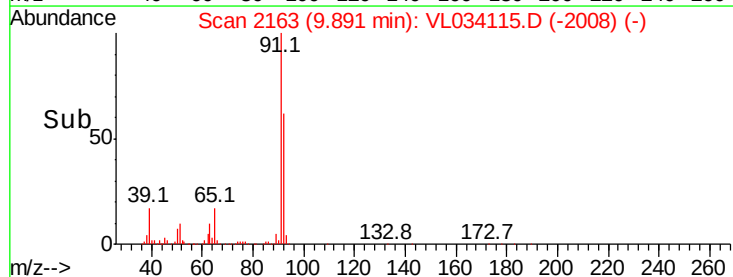
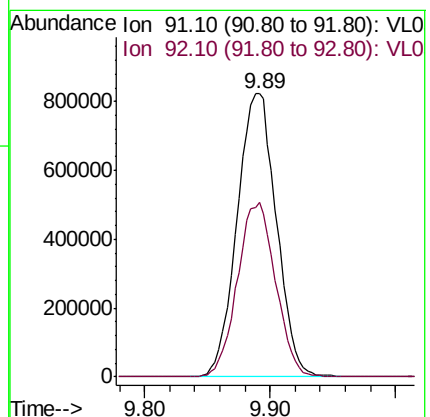
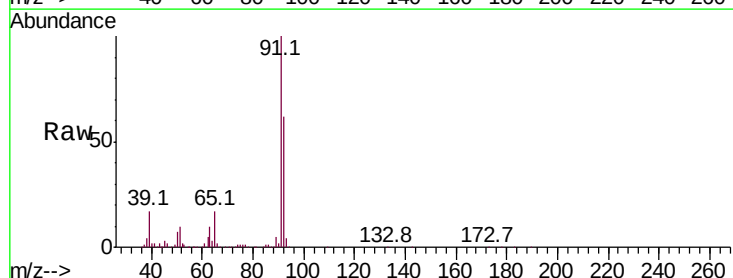
Acq: 13 Aug 2019 00:16

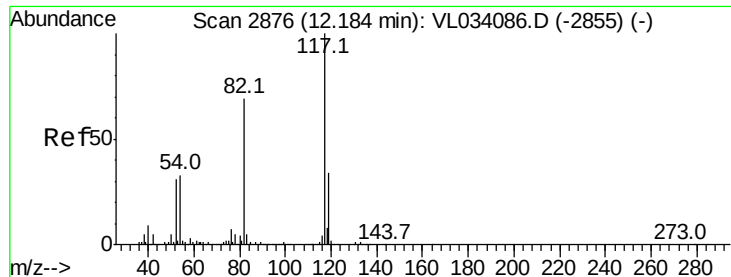
Tgt Ion: 91 Resp: 1785423

Ion Ratio Lower Upper

91 100

92 60.2 50.3 75.5





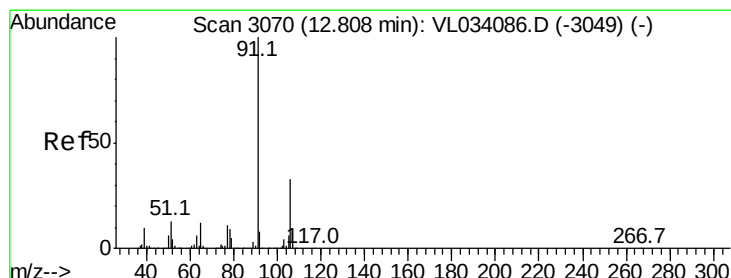
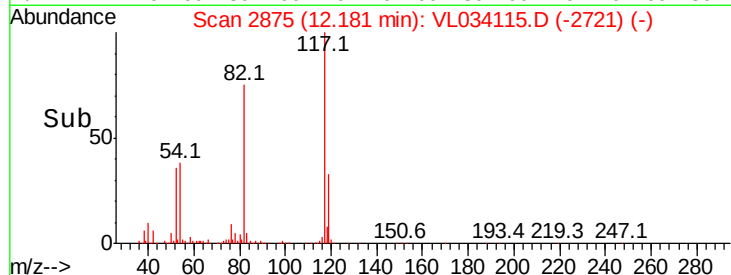
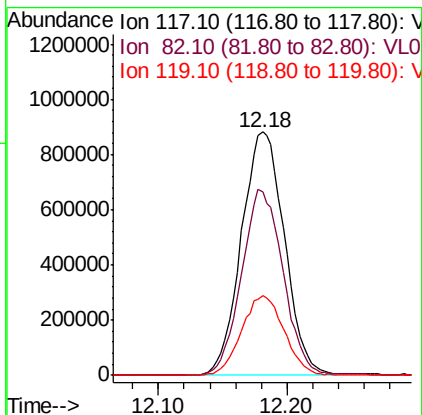
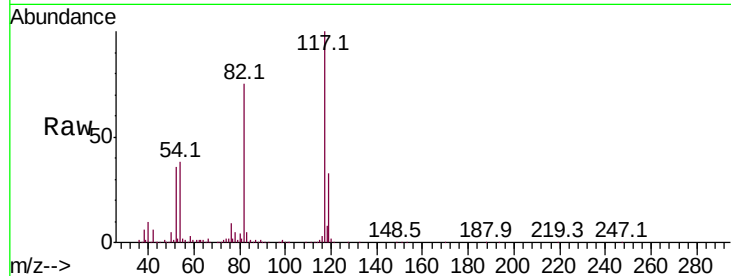
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2875
Delta R.T. -0.00 min
Lab File: VL034115.D
Acq: 13 Aug 2019 00:16

Instrument :
MSVOA_L
ClientSampleId :
SRS-0807-VI3

Tot Ion:117 Resp: 2050726
Ion Ratio Lower Upper
117 100
82 74.1 52.2 78.4
119 32.6 44.8 67.2#

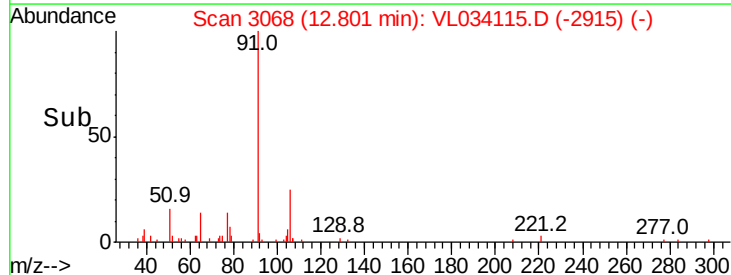
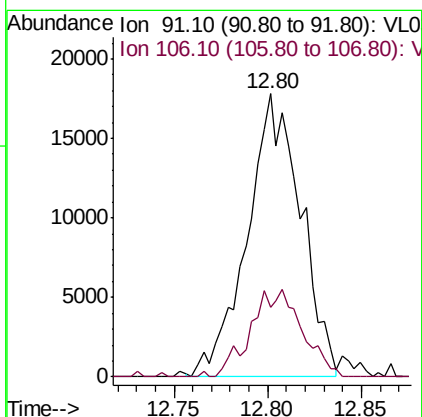
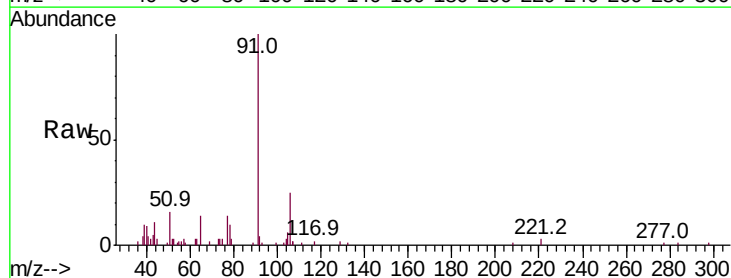
Manual Integrations
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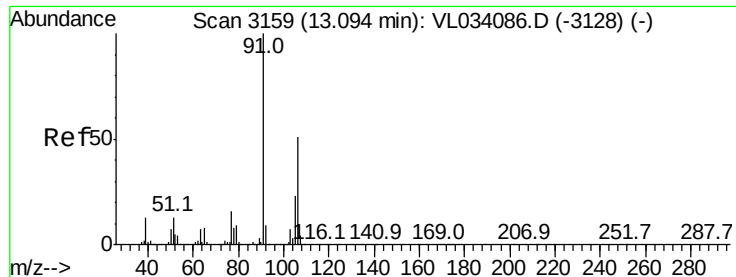
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#58
Ethyl Benzene
Concen: 0.102 ppbv m
RT: 12.80 min Scan# 3068
Delta R.T. -0.01 min
Lab File: VL034115.D
Acq: 13 Aug 2019 00:16

Tgt Ion: 91 Resp: 35214
Ion Ratio Lower Upper
91 100
106 24.7 26.0 39.0#





#59

m/p-Xylene

Concen: 0.326 ppbv m

RT: 13.06 min Scan# 3149

Delta R.T. -0.03 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

Tot Ion: 91 Resp: 90331

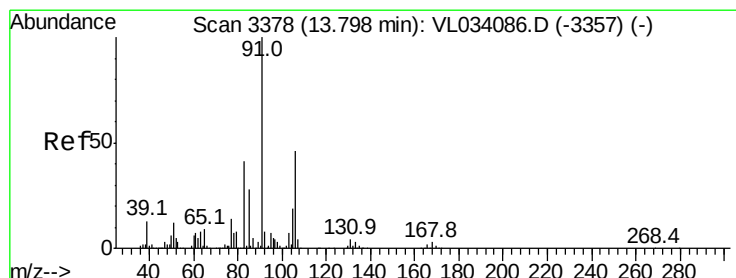
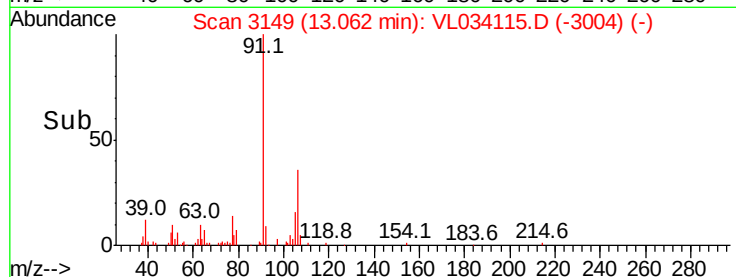
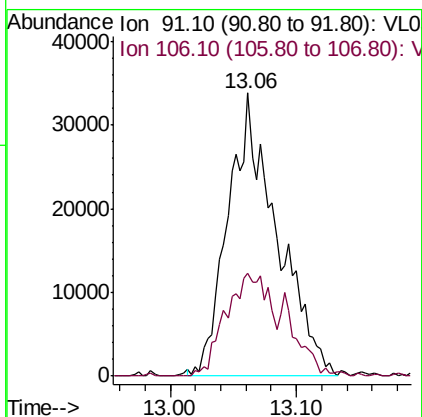
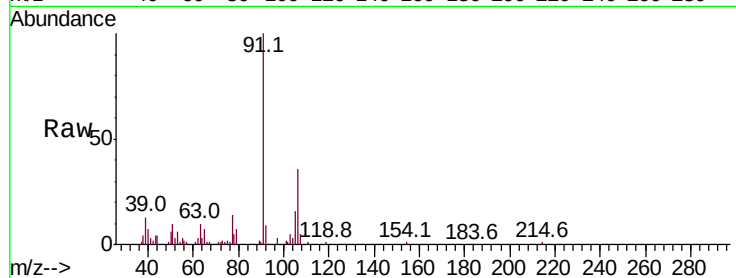
Ion Ratio Lower Upper

91 100

106 0.0 38.7 58.1#

Manual Integrations
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#60

o-Xylene

Concen: 0.121 ppbv m

RT: 13.79 min Scan# 3375

Delta R.T. -0.01 min

Lab File: VL034115.D

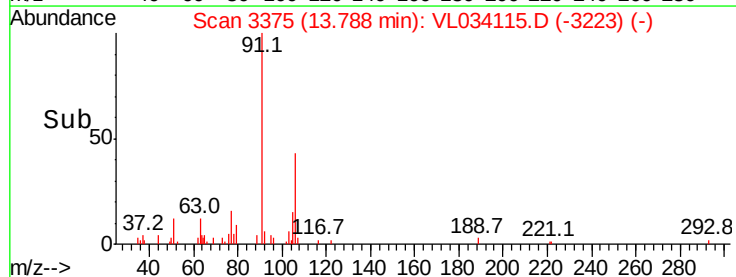
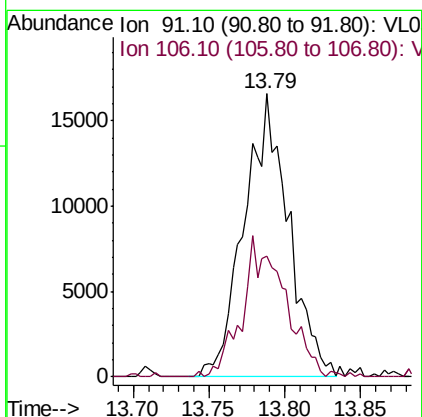
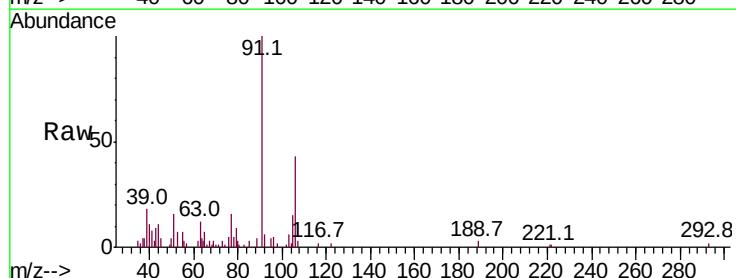
Acq: 13 Aug 2019 00:16

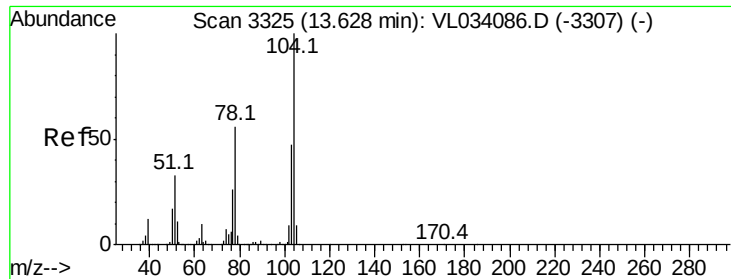
Tgt Ion: 91 Resp: 33561

Ion Ratio Lower Upper

91 100

106 0.0 22.6 67.7#





#61

Stvrene

Concen: 0.129 ppbv m

RT: 13.62 min Scan# 3323

Delta R.T. -0.01 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

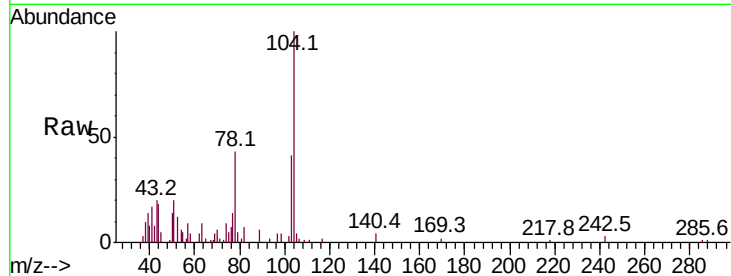
ClientSampleId :

SRS-0807-VI3

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	44.2	66.4#
103	0.0	38.3	57.5#

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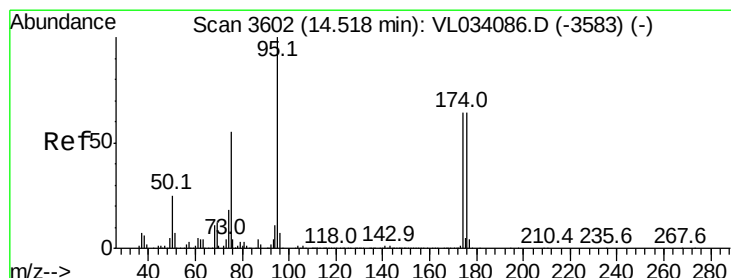
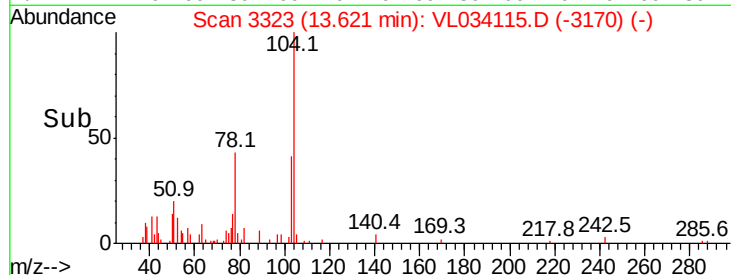
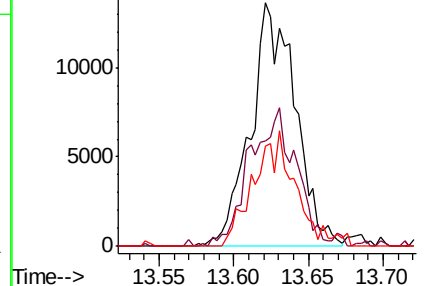
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.475 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VL034115.D

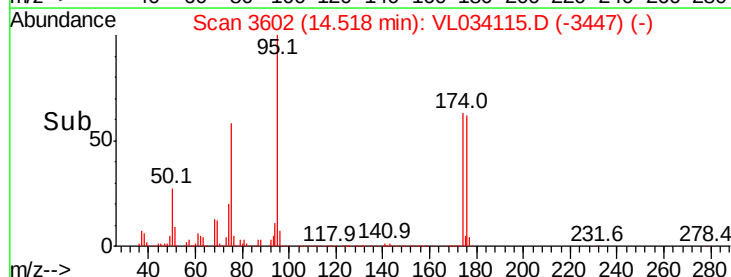
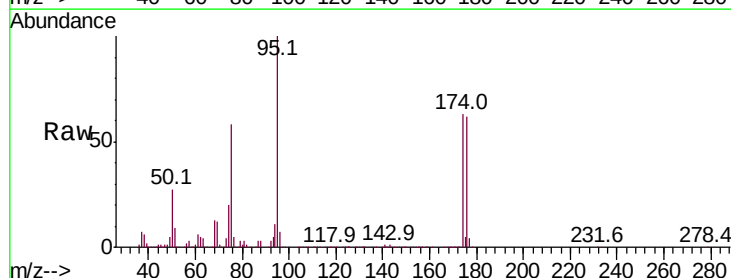
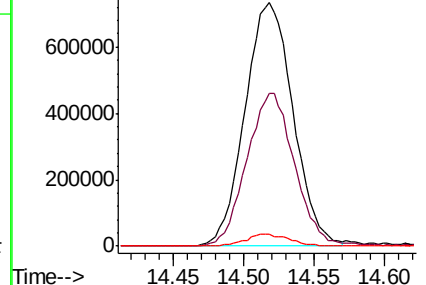
Acq: 13 Aug 2019 00:16

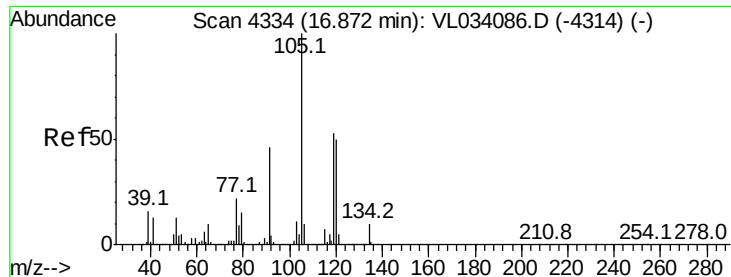
Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.3	53.0	79.6
175	4.7	4.2	6.2

Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74

1,2,4-Trimethylbenzene

Concen: 0.178 ppbv m

RT: 16.86 min Scan# 4329

Delta R.T. -0.02 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Instrument :

MSVOA_L

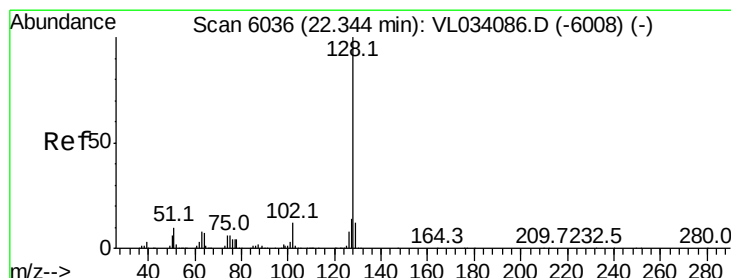
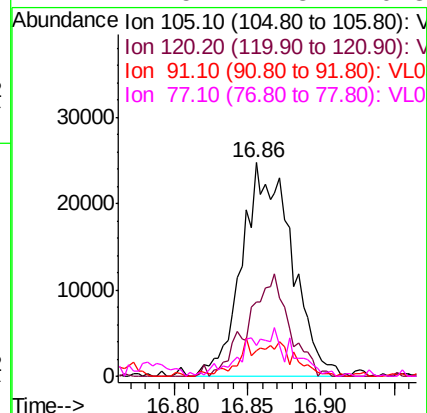
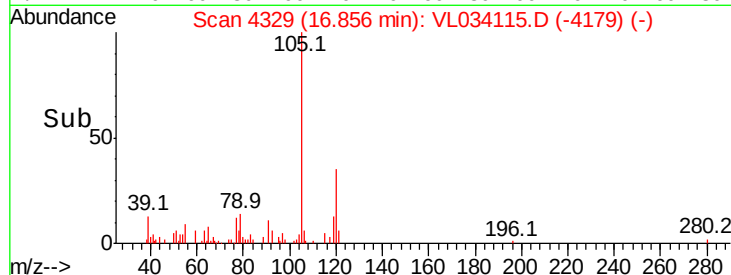
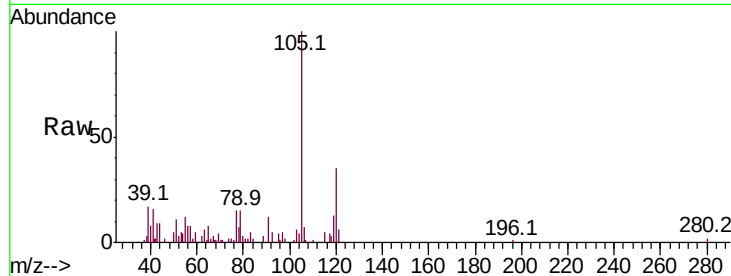
ClientSampleId :

SRS-0807-VI3

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
120	34.5	40.2	60.4#	
91	12.0	38.1	57.1#	
77	14.5	17.8	26.8#	

Manual Integrations
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#79

Naphthalene

Concen: 0.643 ppbv m

RT: 22.34 min Scan# 6036

Delta R.T. -0.00 min

Lab File: VL034115.D

Acq: 13 Aug 2019 00:16

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
127	14.2	11.0	16.6	
129	8.6	9.2	13.8#	

