Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062419\
Data File : VL033953.D
Acq On : 25 Jun 2019 1:54
Operator : SY/AP
Sample : K3481-07DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

Quant Time: Jun 25 05:09:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	975434	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.27	114	2539133	10.00	ppbv		-0.01
55) Chlorobenzene-d5	12.21	117	2521736	10.00	ppbv		-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.55	95	2080584	10.04	ppbv		-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.40%				
Target Compounds							Qvalue
3) Chlorodifluoromethane	3.01	51	22338m	0.195	ppbv		
10) Heptane	8.23	43	90988m	0.838	ppbv		
11) Trichlorofluoromethane	3.99	101	55607	0.272	ppbv		85
13) Ethanol	3.65	45	25539m	1.827	ppbv		
15) Acetone	3.88	43	4629709	32.543	ppbv		95
17) tert-Butyl alcohol	4.35	59	428702	3.855	ppbv		98
19) Isopropyl Alcohol	4.02	45	57130	0.703	ppbv	#	94
26) Hexane	5.77	57	15743m	0.160	ppbv		
34) 2-Butanone	5.32	43	255920	1.787	ppbv		97
36) Benzene	6.98	78	225556	1.163	ppbv		97
52) Tetrachloroethene	11.34	164	16800m	0.246	ppbv		
53) Toluene	9.92	91	232216	1.082	ppbv		99
58) Ethyl Benzene	12.83	91	1387663	4.881	ppbv		99
59) m/p-Xylene	13.09	91	3845225	14.873	ppbv		97
60) o-Xylene	13.82	91	1772969	6.642	ppbv		99
61) Styrene	13.66	104	2055029	11.896	ppbv		97

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

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062419\
Data File : VL033953.D
Acq On : 25 Jun 2019 1:54
Operator : SY/AP
Sample : K3481-07DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 05:09:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

Manual Integrations APPROVED
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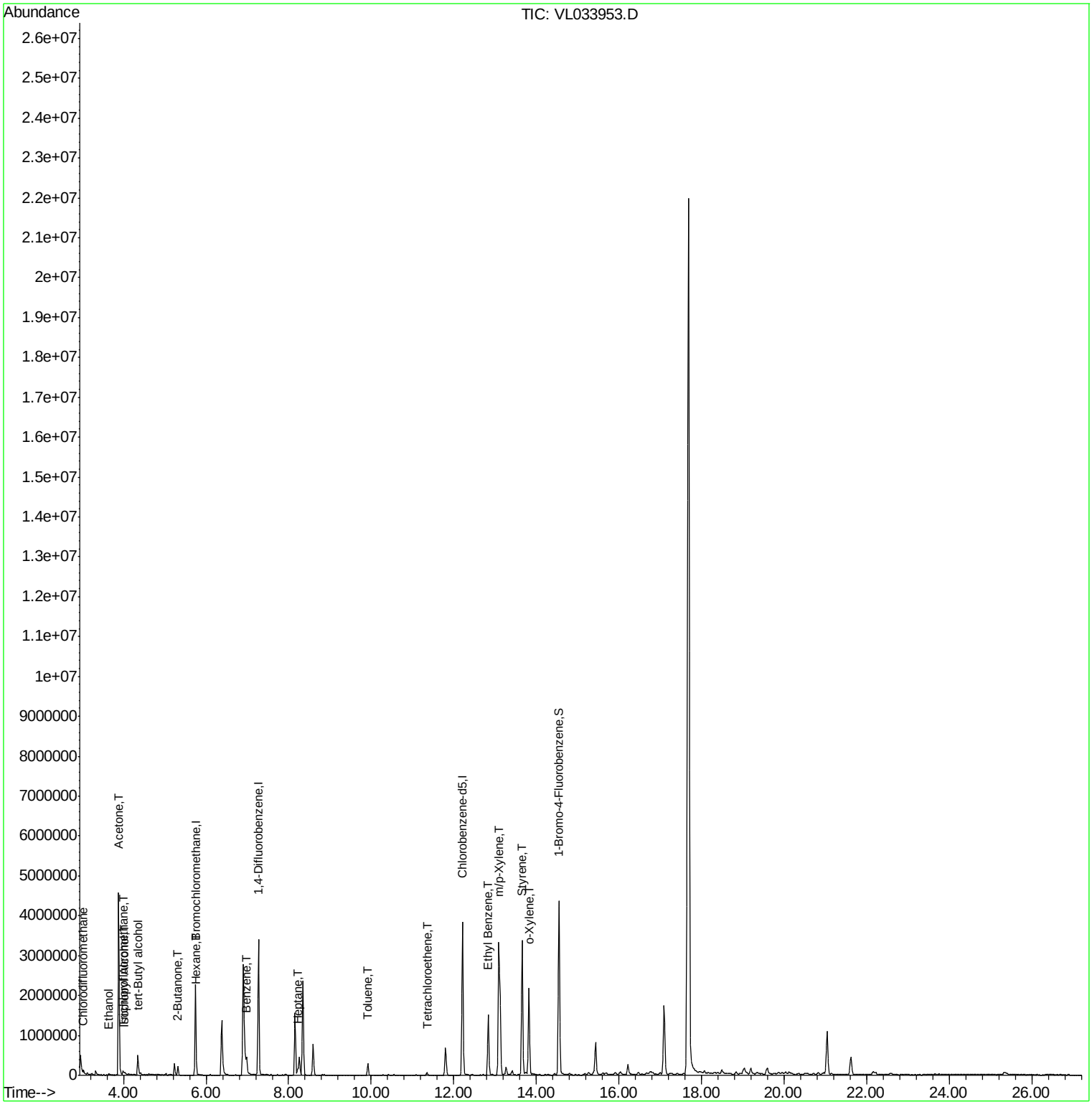
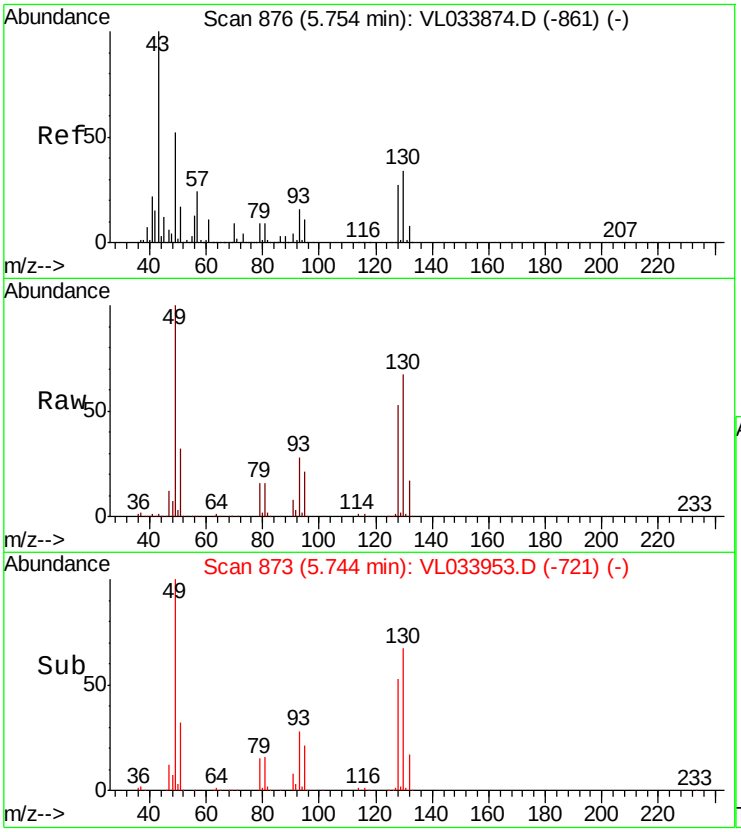
6/26/2019 8:15:52 AM

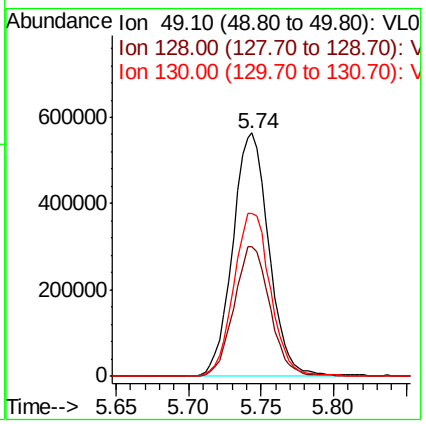




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

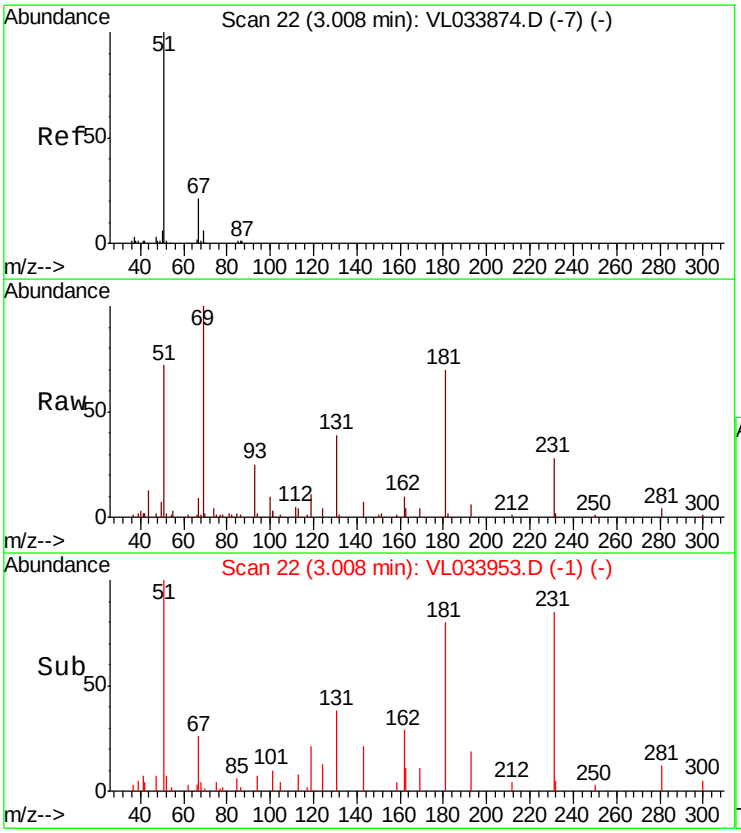
Tgt Ion: 49 Resp: 975434

Ion	Ratio	Lower	Upper
49	100		
128	53.4	25.5	76.5
130	68.9	32.5	97.4



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

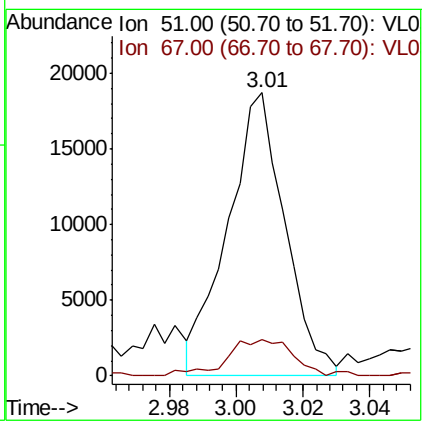
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

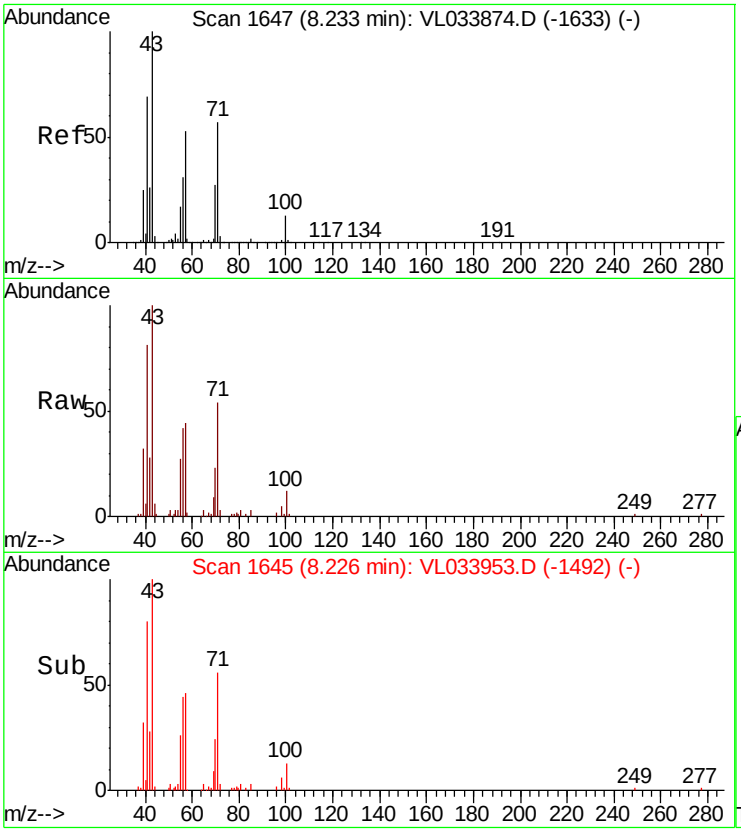


#3
Chlorodifluoromethane
Concen: 0.195 ppbv m
RT: 3.01 min Scan# 22
Delta R.T. -0.00 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 51 Resp: 22338

Ion	Ratio	Lower	Upper
51	100		
67	15.1	16.4	24.6#

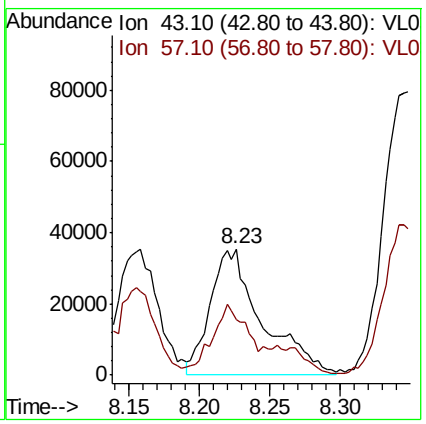




#10
Heptane
Concen: 0.838 ppbv m
RT: 8.23 min Scan# 1645
Delta R.T. -0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 43 Resp: 90988

Ion	Ratio	Lower	Upper
43	100		
57	55.0	41.7	62.5



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

Manual Integrations APPROVED
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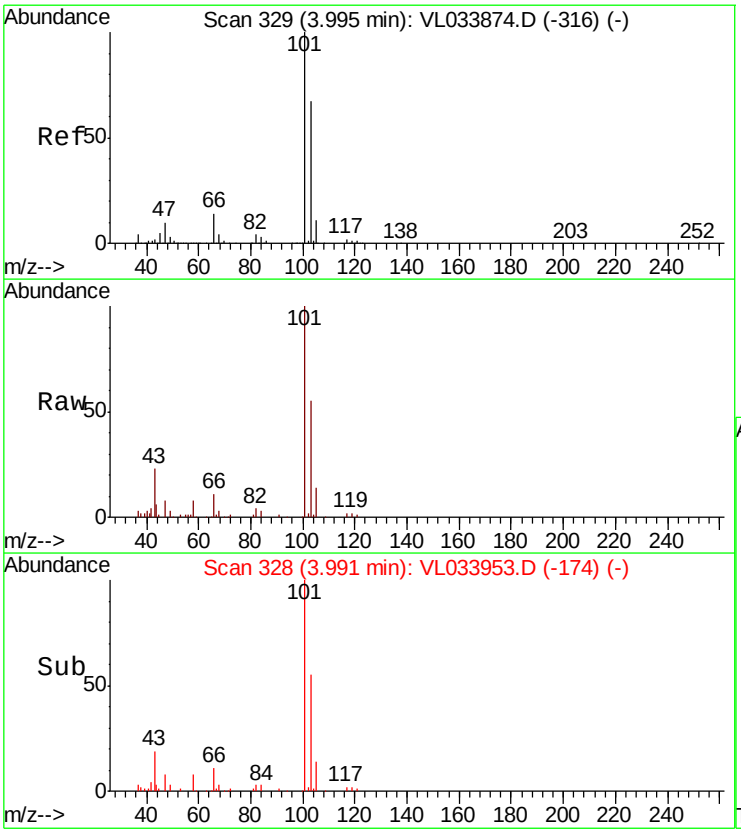
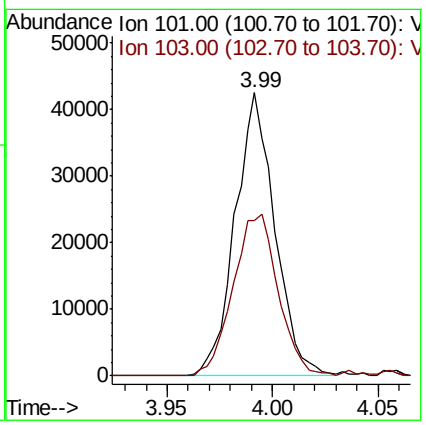
6/26/2019 8:15:52 AM

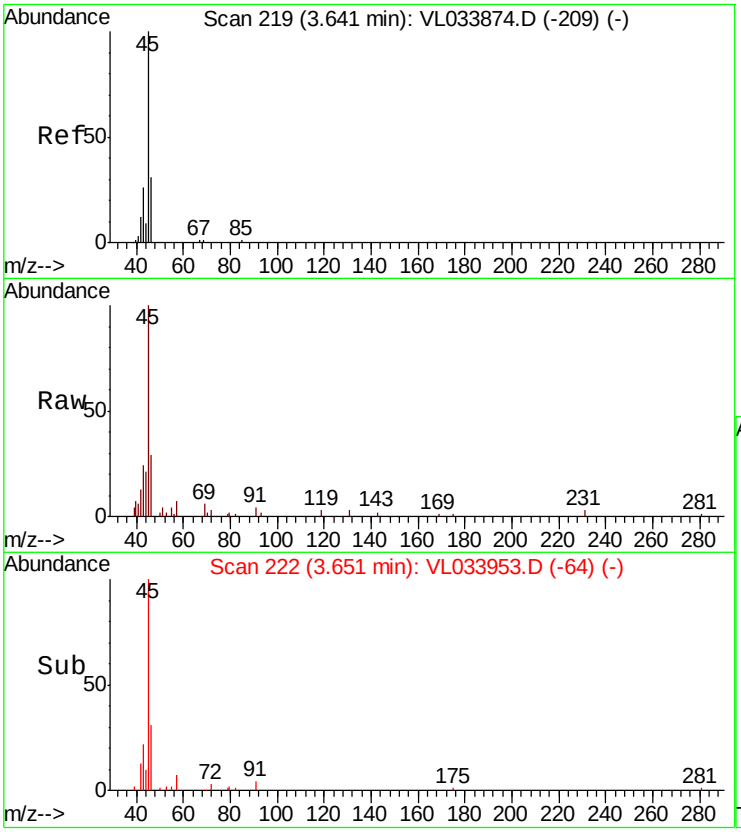


#11
Trichlorofluoromethane
Concen: 0.272 ppbv
RT: 3.99 min Scan# 328
Delta R.T. -0.00 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion:101 Resp: 55607

Ion	Ratio	Lower	Upper
101	100		
103	54.9	53.6	80.4

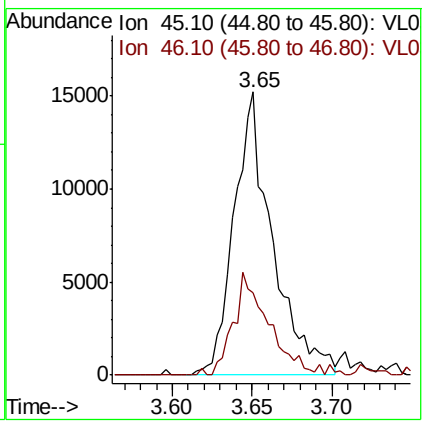




#13
Ethanol
Concen: 1.827 ppbv m
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

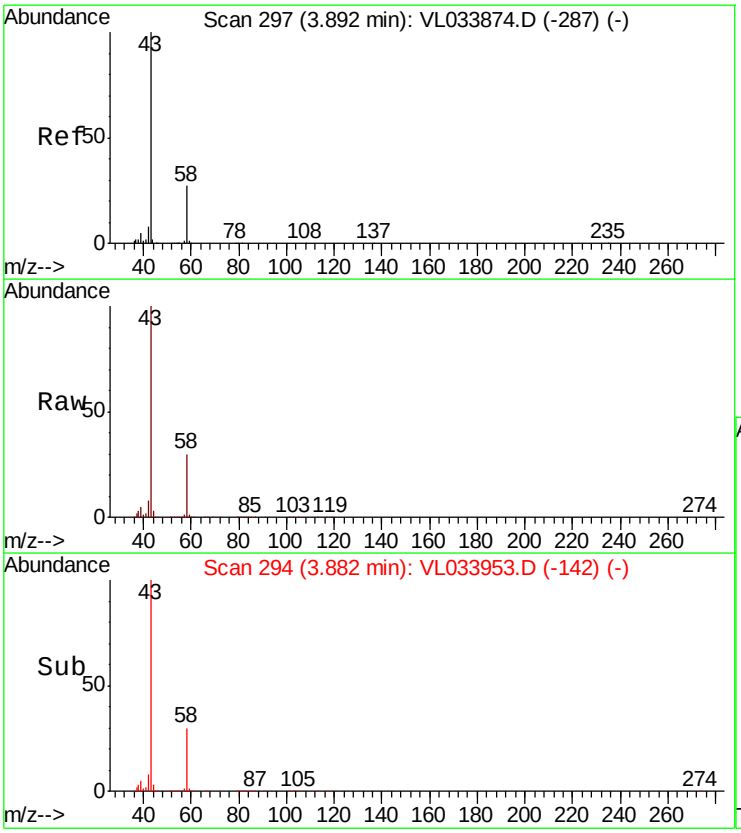
Tgt Ion: 45 Resp: 25539

Ion	Ratio	Lower	Upper
45	100		
46	33.3	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

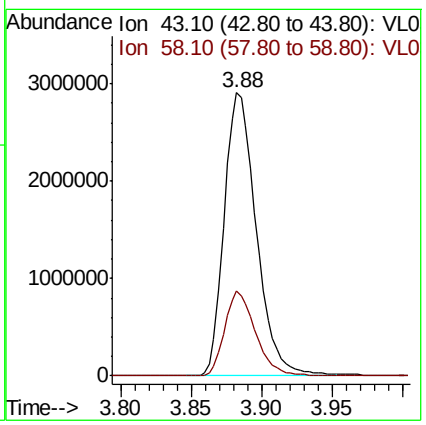
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

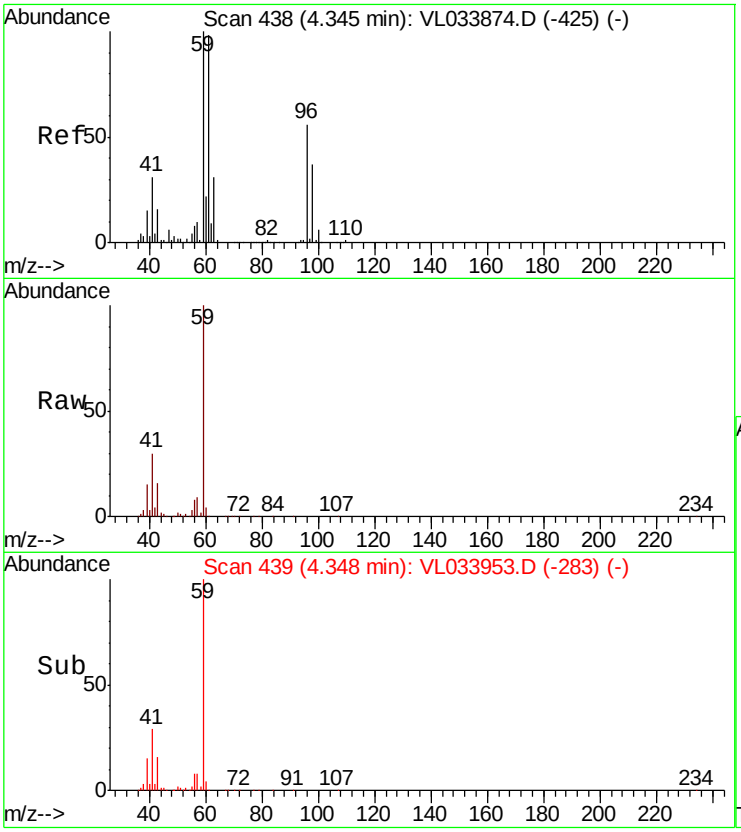


#15
Acetone
Concen: 32.543 ppbv
RT: 3.88 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 43 Resp: 4629709

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.3	31.9

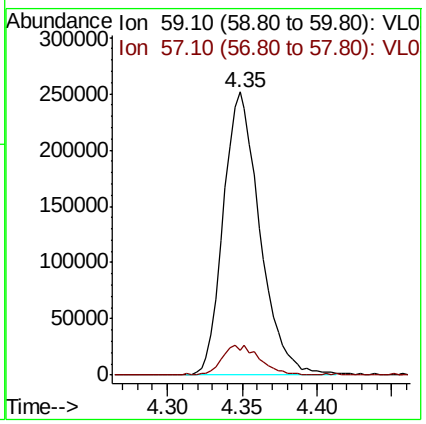




#17
tert-Butyl alcohol
Concen: 3.855 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

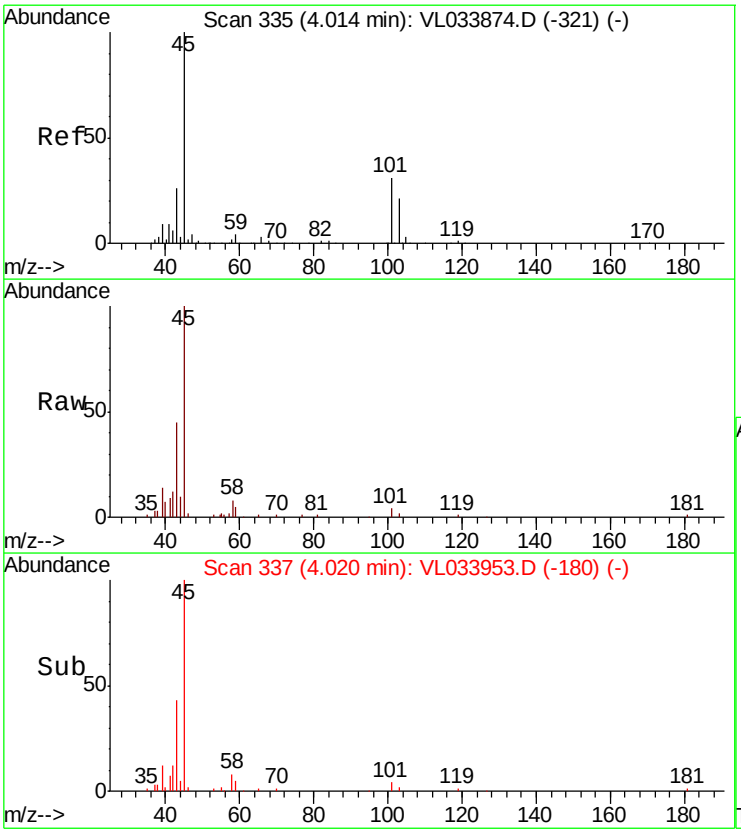
Tgt Ion: 59 Resp: 428702

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

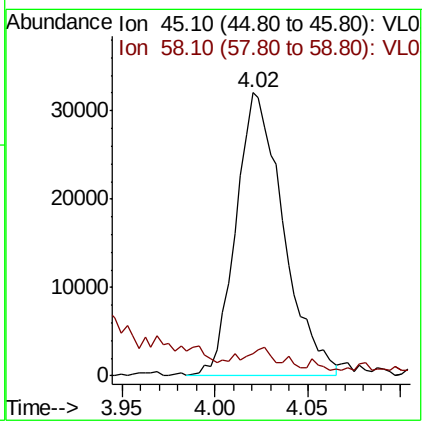
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

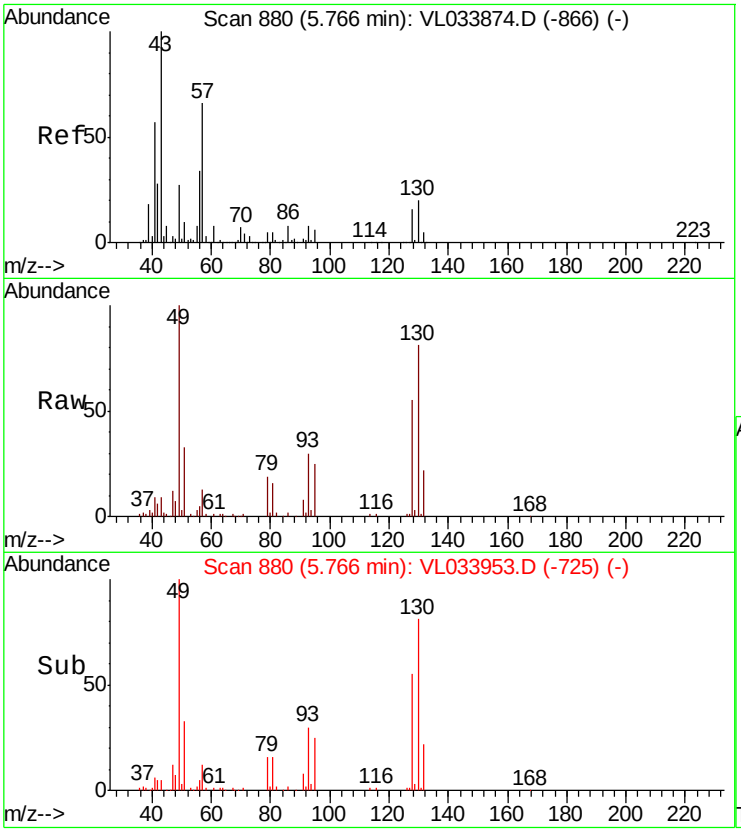


#19
Isopropyl Alcohol
Concen: 0.703 ppbv
RT: 4.02 min Scan# 337
Delta R.T. 0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 45 Resp: 57130

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.8	2.6#

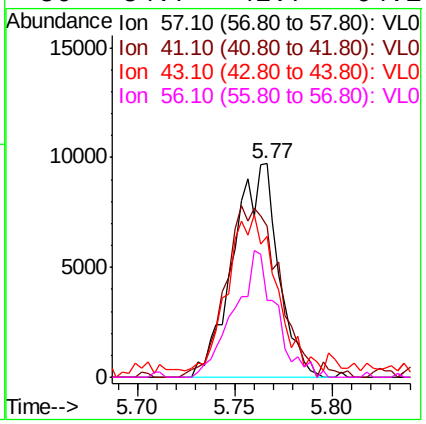




#26
Hexane
Concen: 0.160 ppbv m
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 57 Resp: 15743

Ion	Ratio	Lower	Upper
57	100		
41	95.4	71.4	107.2
43	83.1	183.7	275.5#
56	54.7	42.7	64.1



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

Manual Integrations APPROVED
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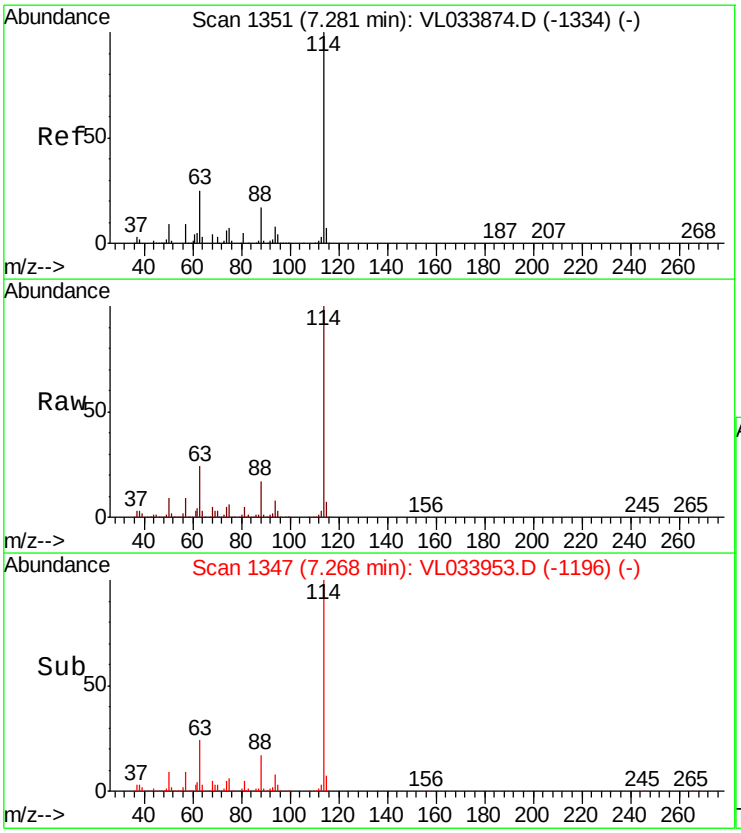
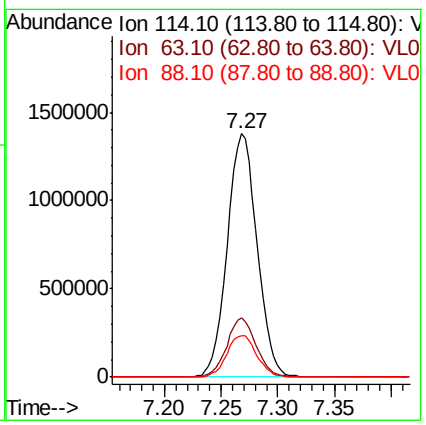
6/26/2019 8:15:52 AM

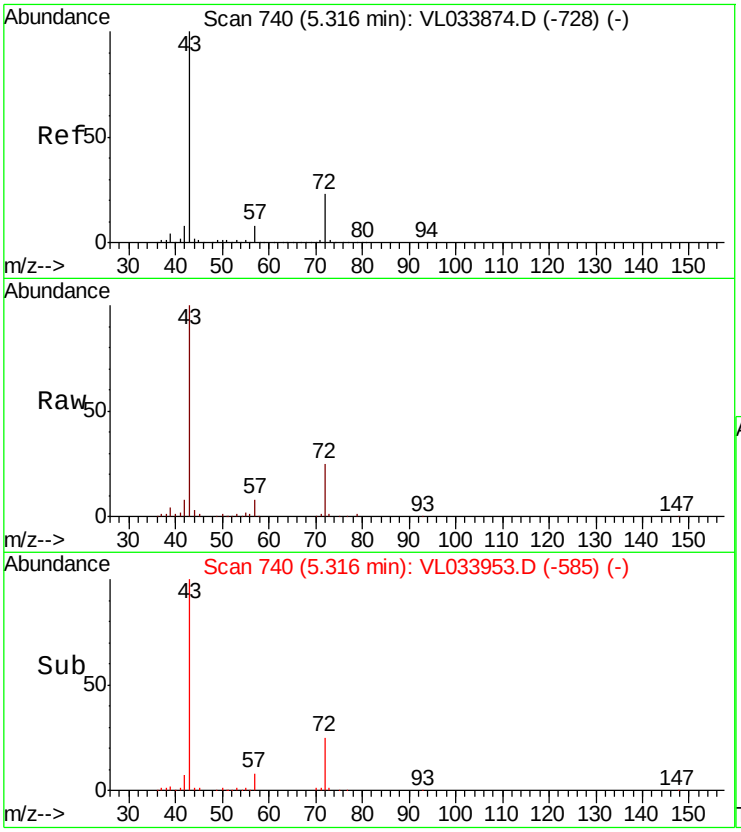


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.27 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion:114 Resp: 2539133

Ion	Ratio	Lower	Upper
114	100		
63	23.8	21.1	31.7
88	17.2	14.2	21.4

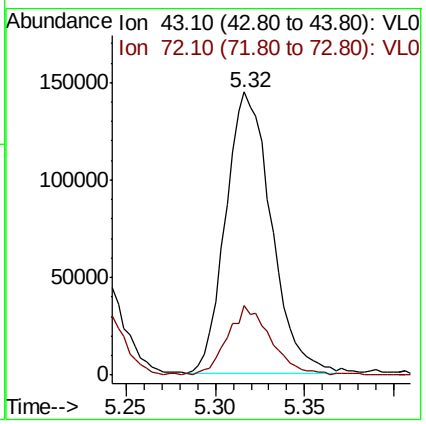




#34
2-Butanone
Concen: 1.787 ppbv
RT: 5.32 min Scan# 740
Delta R.T. -0.00 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

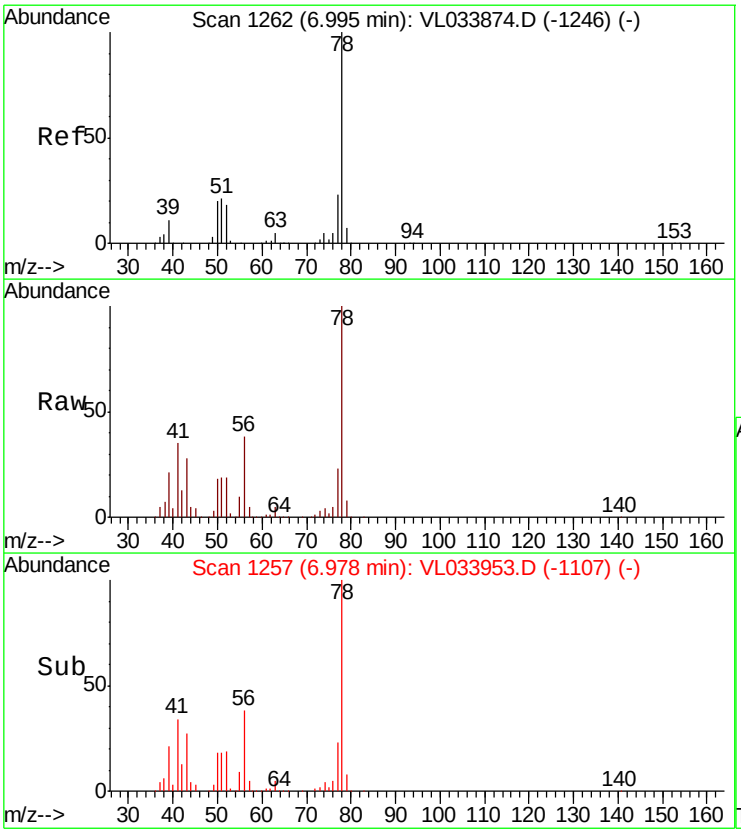
Tgt Ion: 43 Resp: 255920

Ion	Ratio	Lower	Upper
43	100		
72	23.7	17.9	26.9



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

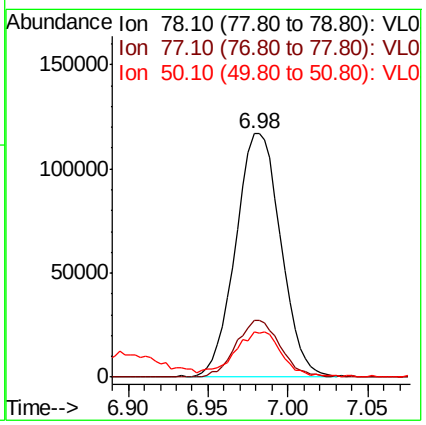
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

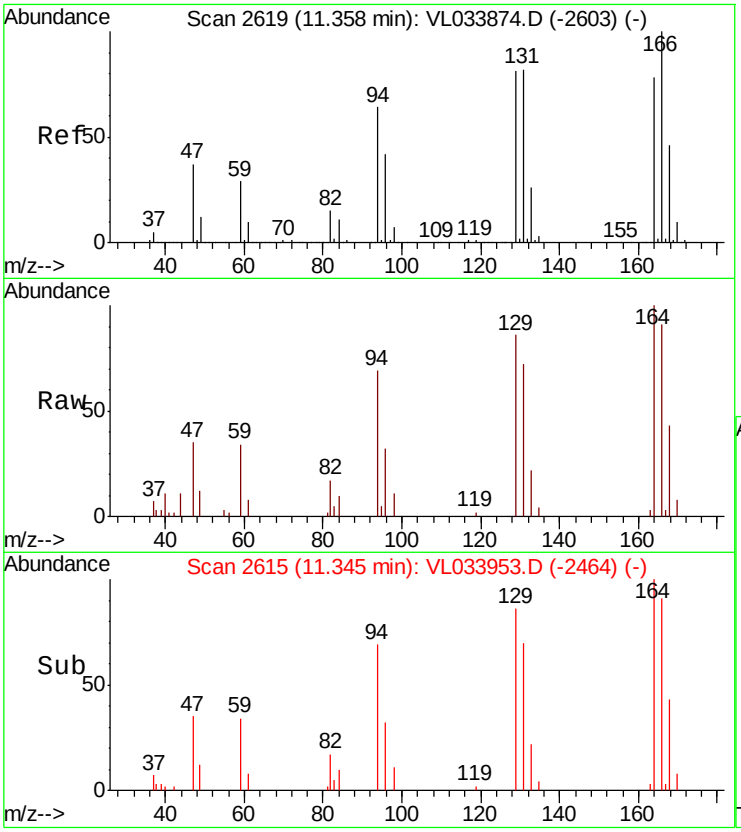


#36
Benzene
Concen: 1.163 ppbv
RT: 6.98 min Scan# 1257
Delta R.T. -0.02 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 78 Resp: 225556

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.2	27.2
50	17.4	15.9	23.9

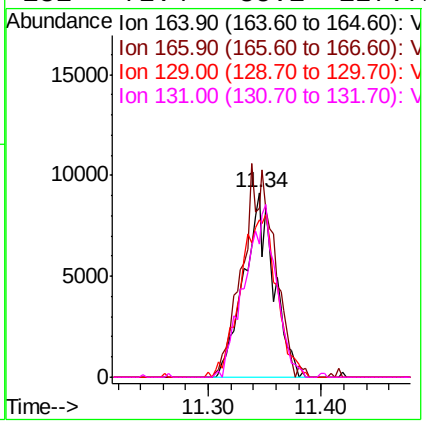




#52
Tetrachloroethene
Concen: 0.246 ppbv m
RT: 11.34 min Scan# 2615
Delta R.T. -0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

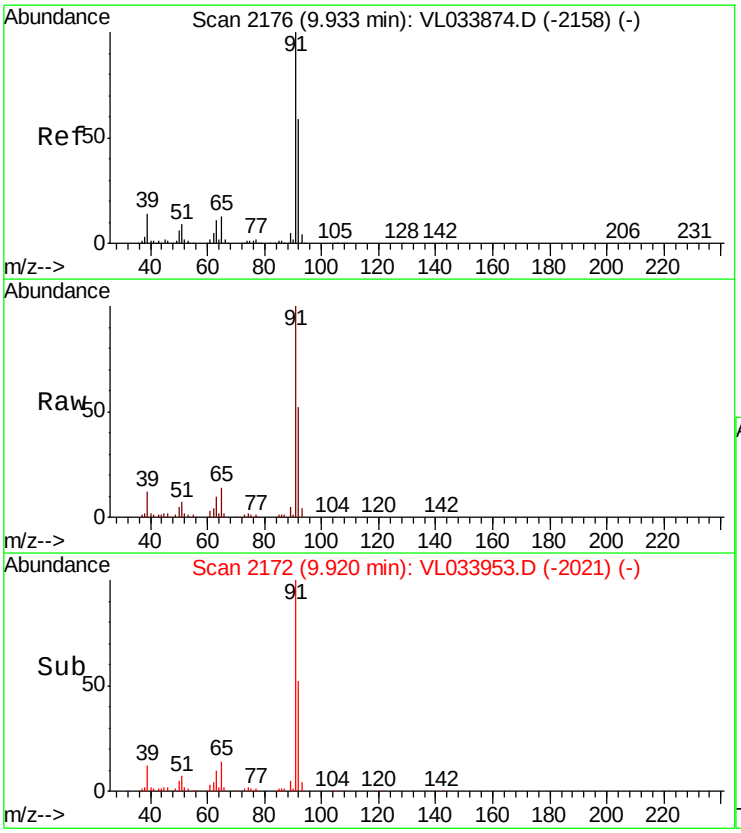
Tgt Ion:164 Resp: 16800

Ion	Ratio	Lower	Upper
164	100		
166	91.3	103.1	154.7#
129	85.6	83.9	125.9
131	72.4	85.1	127.7#



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

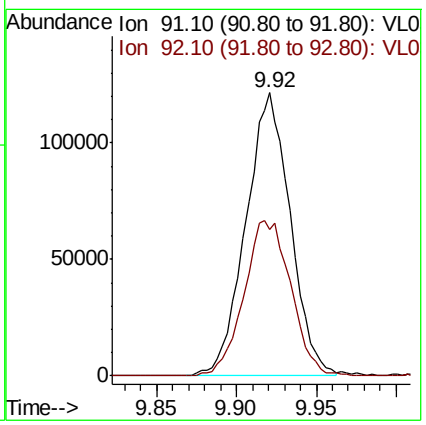
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

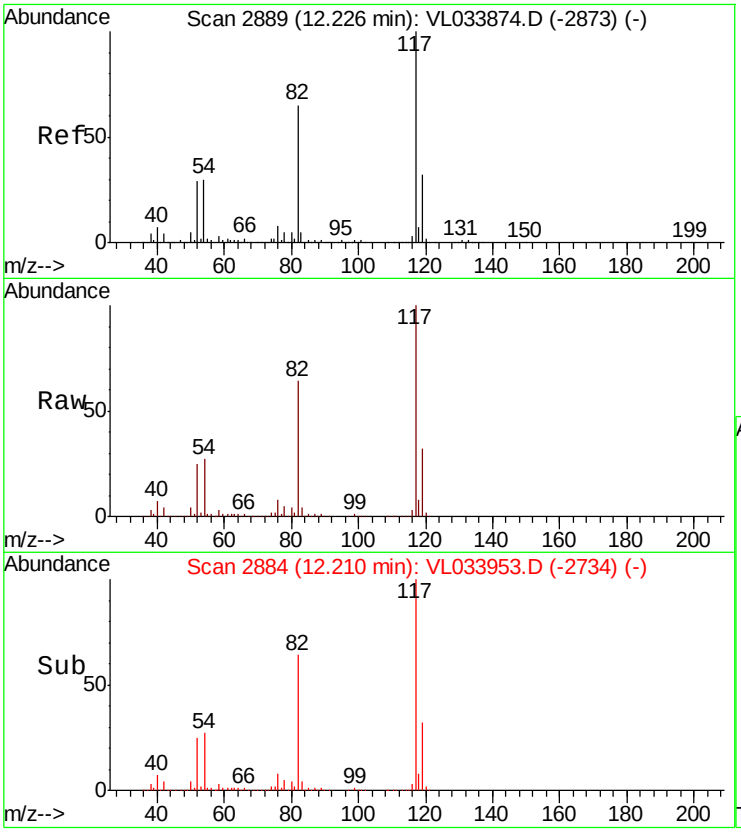


#53
Toluene
Concen: 1.082 ppbv
RT: 9.92 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 91 Resp: 232216

Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.0	70.6

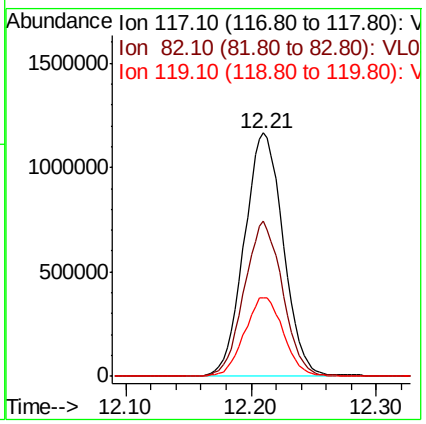




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

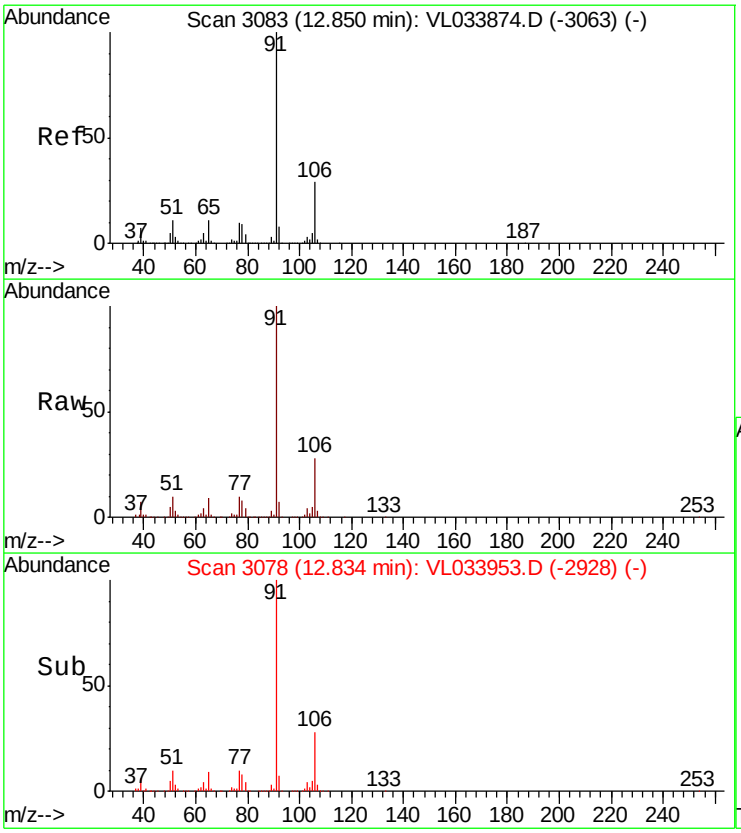
Tgt Ion:117 Resp: 2521736

Ion	Ratio	Lower	Upper
117	100		
82	63.2	50.2	75.2
119	32.6	24.8	37.2



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

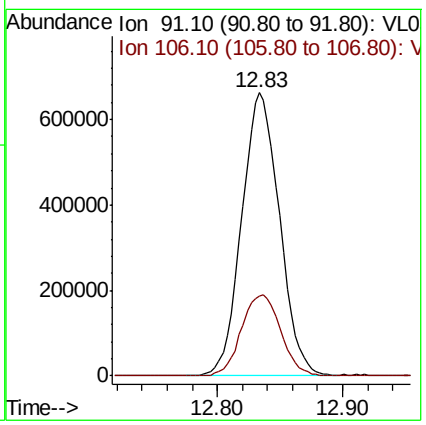
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

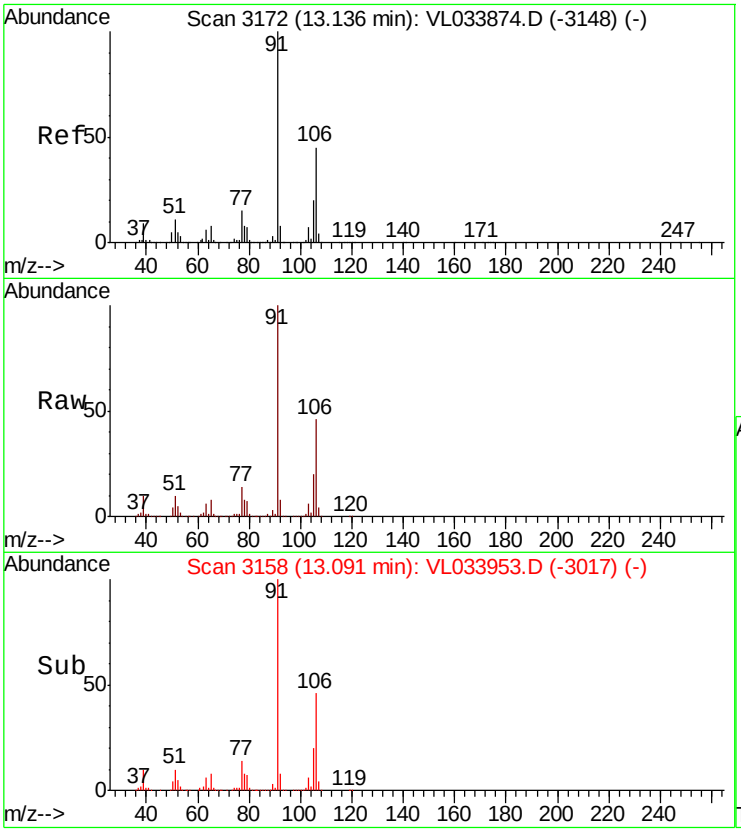


#58
Ethyl Benzene
Concen: 4.881 ppbv
RT: 12.83 min Scan# 3078
Delta R.T. -0.02 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 91 Resp: 1387663

Ion	Ratio	Lower	Upper
91	100		
106	28.3	23.0	34.6

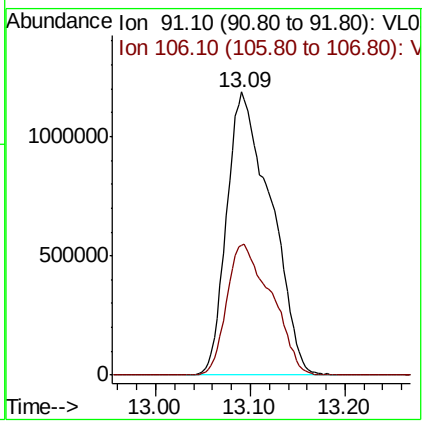




#59
m/p-Xylene
Concen: 14.873 ppbv
RT: 13.09 min Scan# 3158
Delta R.T. -0.05 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

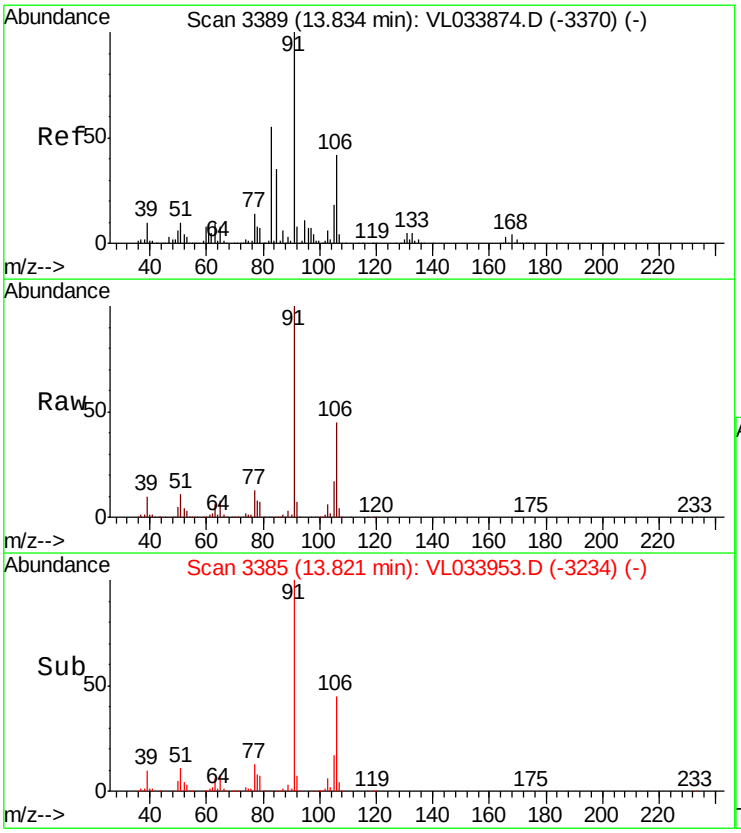
Tgt Ion: 91 Resp: 3845225

Ion	Ratio	Lower	Upper
91	100		
106	46.9	35.8	53.8



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

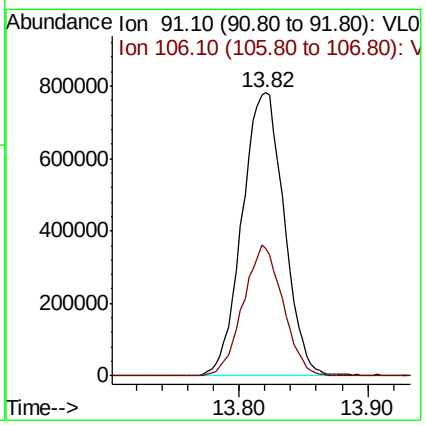
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM

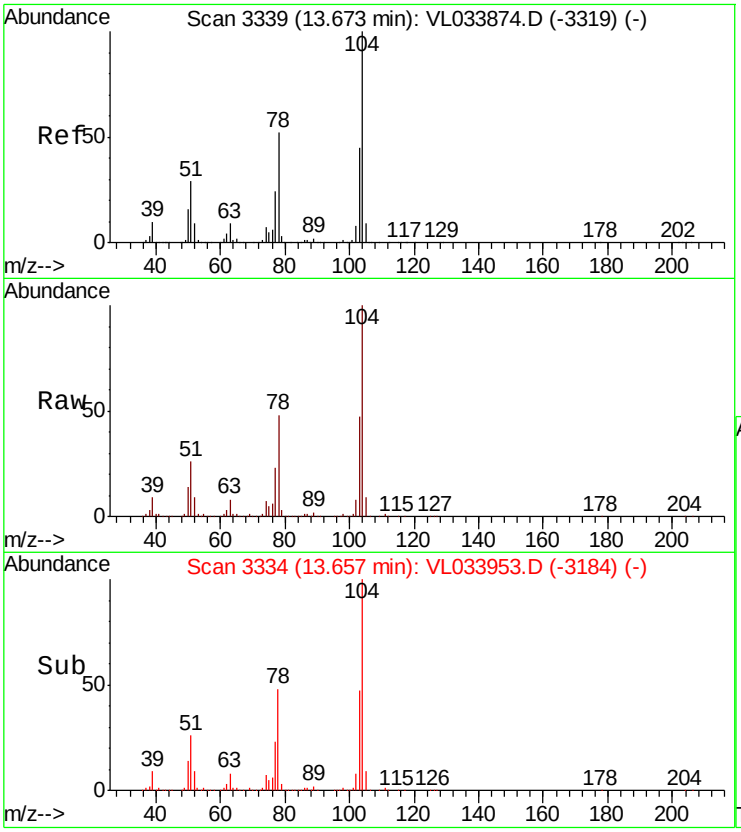


#60
o-Xylene
Concen: 6.642 ppbv
RT: 13.82 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 91 Resp: 1772969

Ion	Ratio	Lower	Upper
91	100		
106	44.0	21.7	65.1

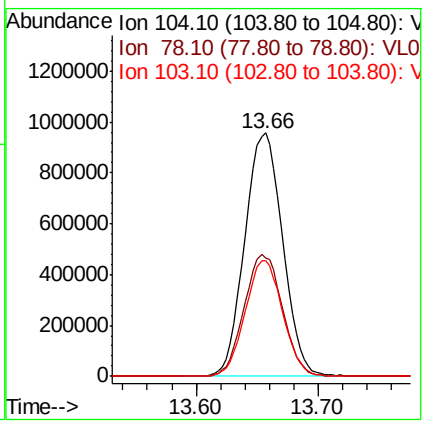




#61
Stvrene
Concen: 11.896 ppbv
RT: 13.66 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

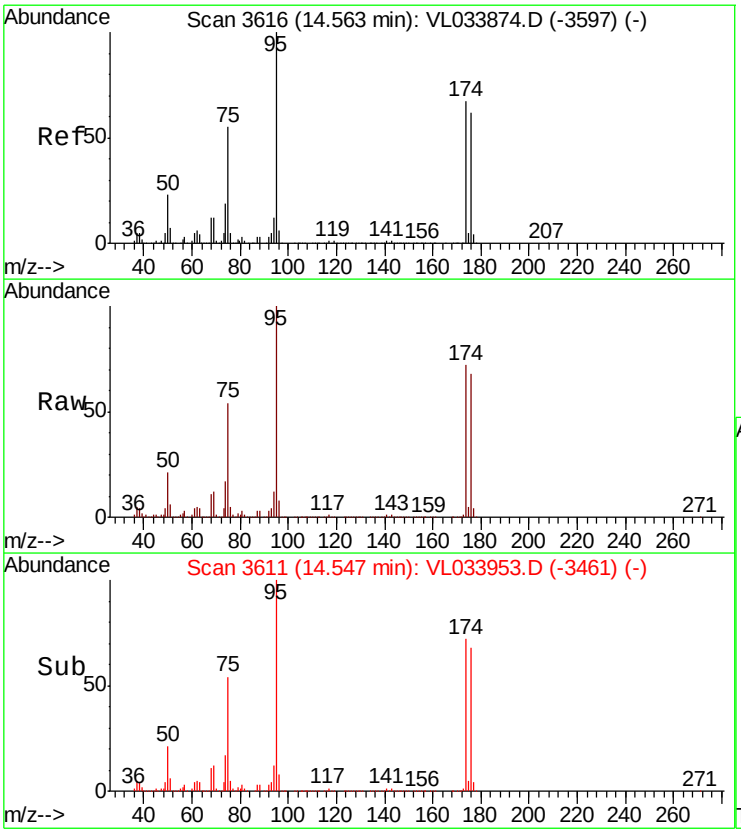
Tgt Ion:104 Resp: 2055029

Ion	Ratio	Lower	Upper
104	100		
78	50.8	43.4	65.0
103	46.9	37.6	56.4



Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:52 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.045 ppbv
RT: 14.55 min Scan# 3611
Delta R.T. -0.02 min
Lab File: VL033953.D
Acq: 25 Jun 2019 1:54

Tgt Ion: 95 Resp: 2080584

Ion	Ratio	Lower	Upper
95	100		
174	70.2	54.0	81.0
175	5.0	3.8	5.8